

Genotype: AOD B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

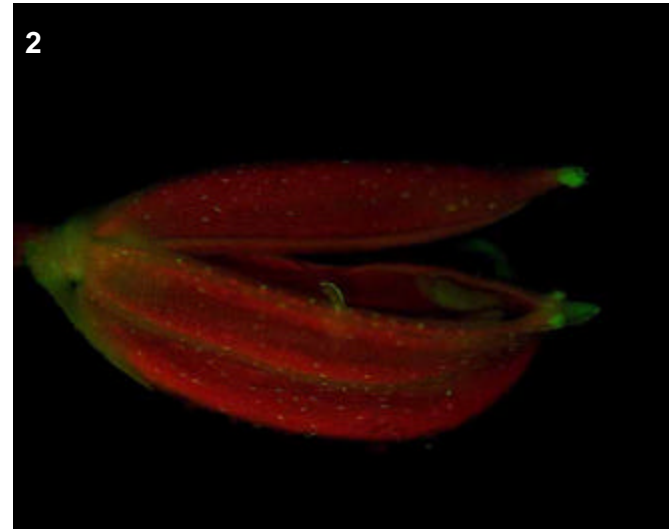
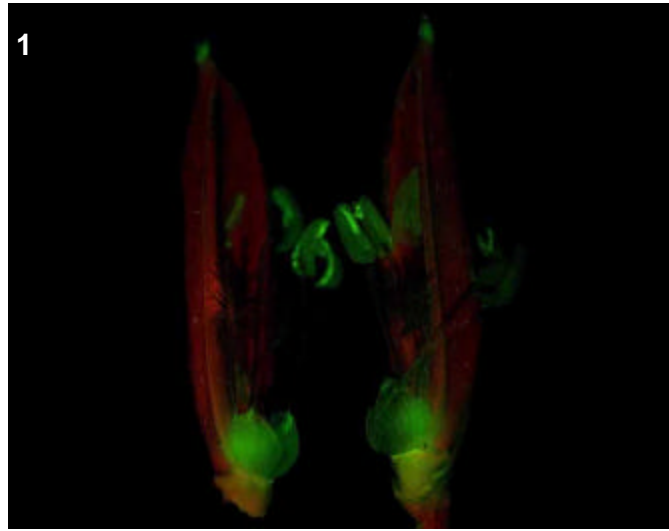
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong expression in floral tips and trichomes/stomata, as well as lodicules and more weakly in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOD C07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

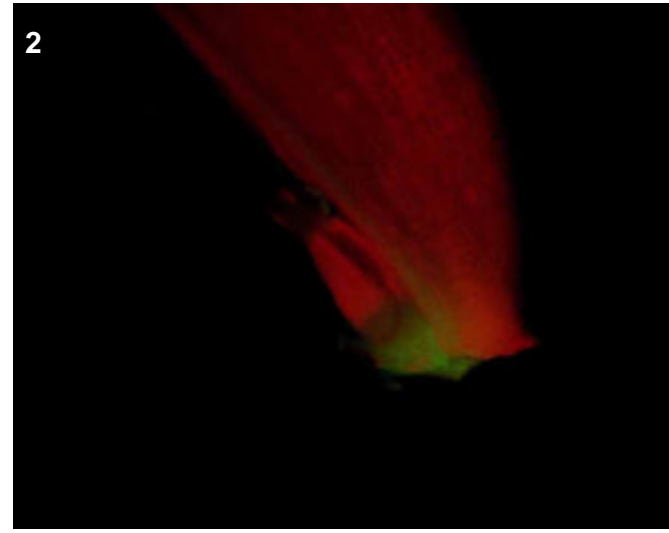
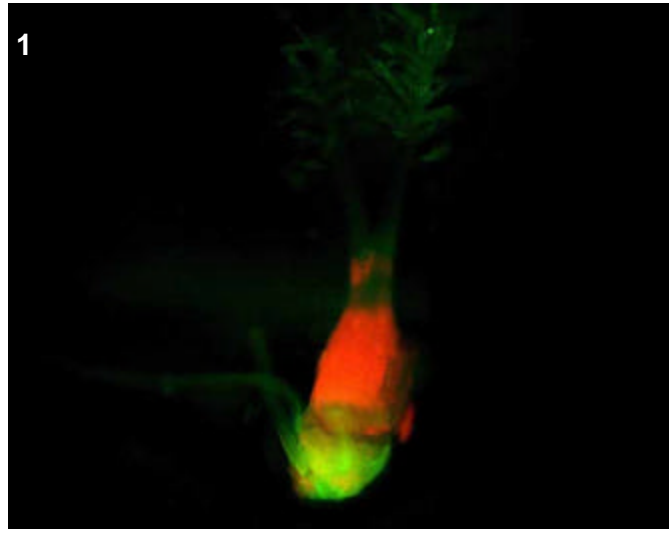
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Looks like rachilla-specific expression.

T1 seed comments

T1 seedling comments

Genotype: AOD D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

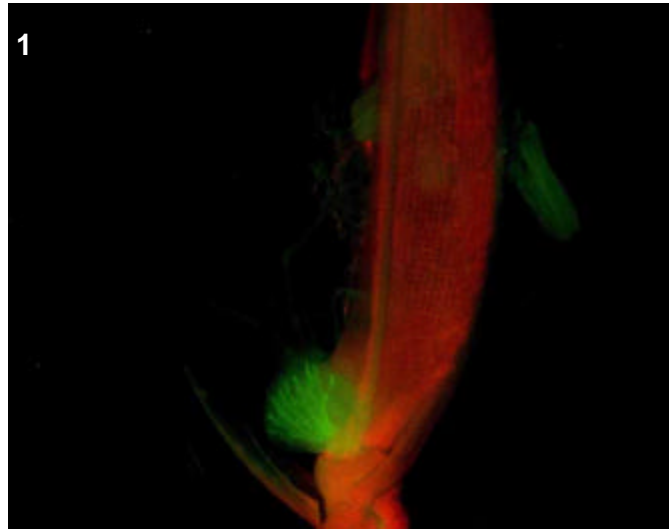
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

lodicule specific line

T1 seed comments

T1 seedling comments

Genotype: AOD F01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

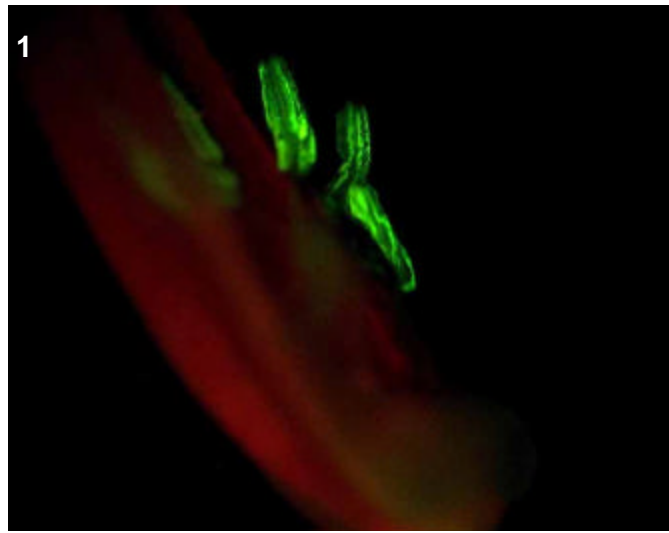
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Anther specific line

T1 seed comments

T1 seedling comments

Genotype: AOD F02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

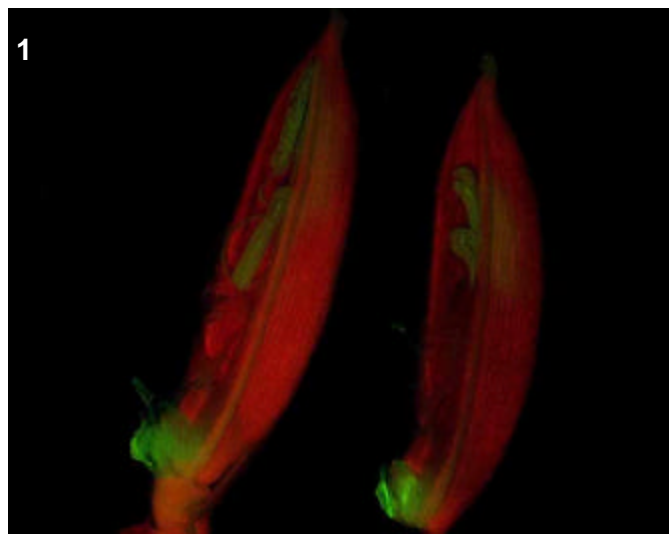
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOD G05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

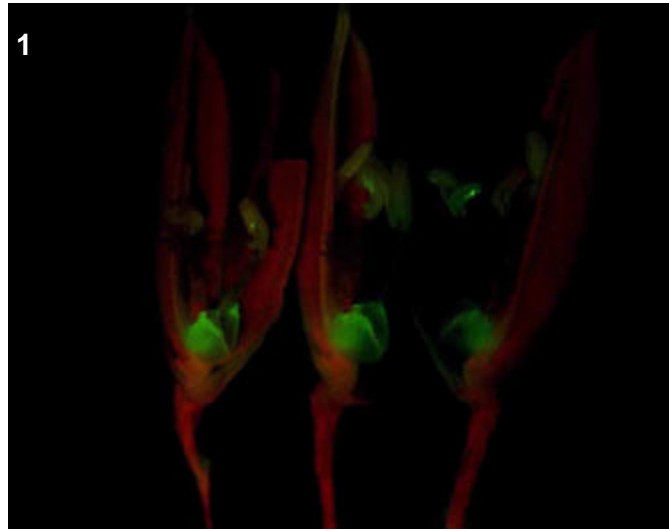
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid with strong lodicule expression

T1 seed comments

T1 seedling comments

Genotype: AOD H11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

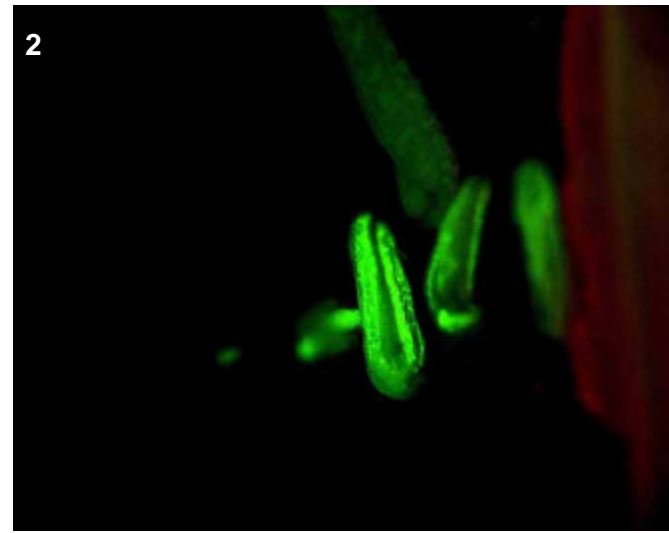
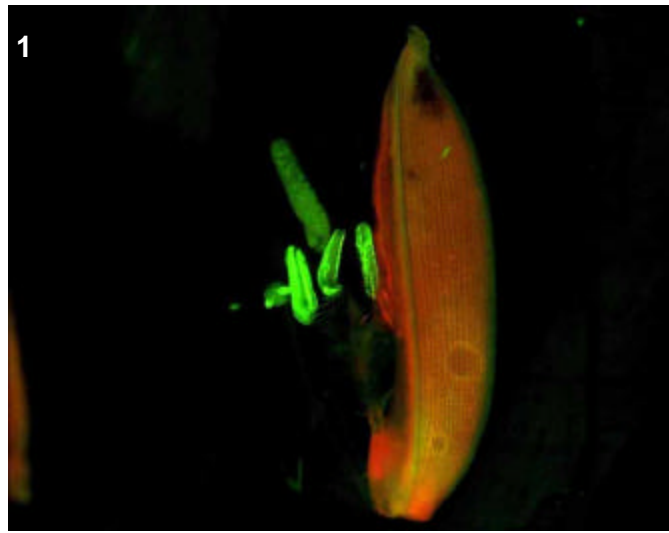
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Moderate expression in anthers of younger flowers, perhaps the older flowers had already released their pollen.

T1 seed comments

T1 seedling comments

Genotype: AOE B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

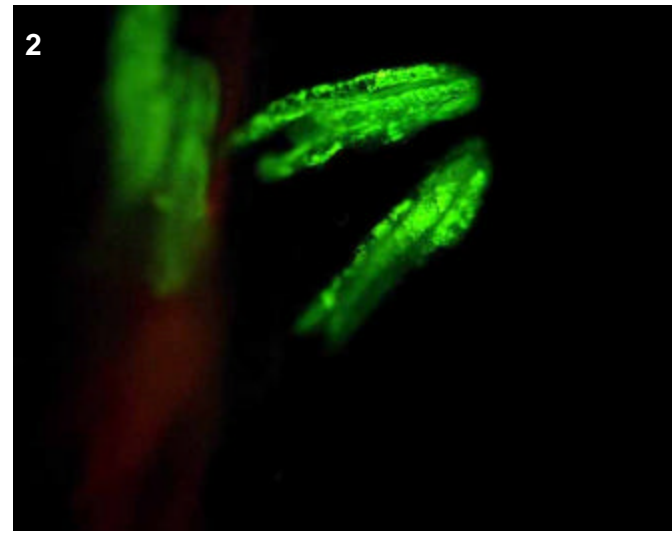
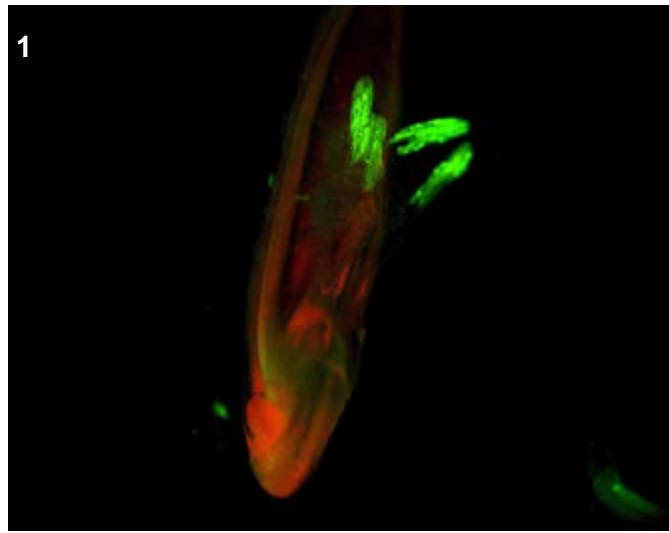
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in anther, although difficult to see if consistent because other flowers quite degraded.

T1 seed comments

T1 seedling comments

Genotype: AOE E01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

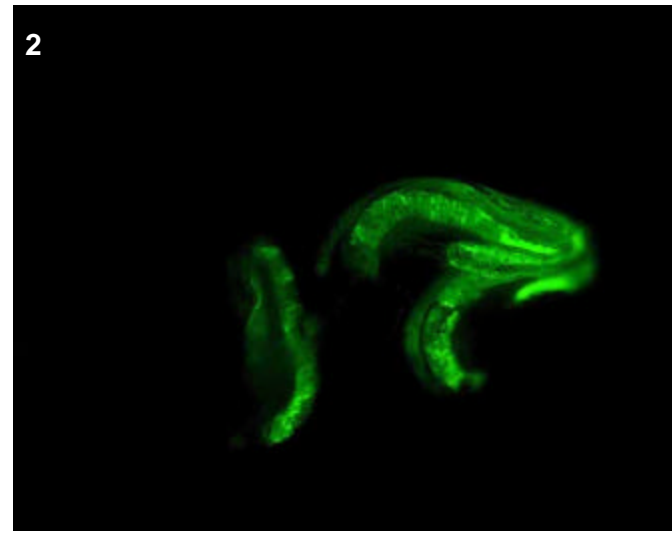
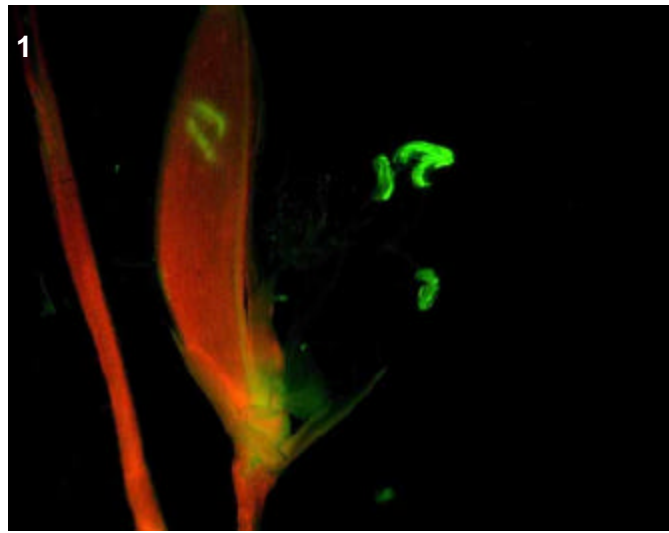
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

small, glowing anthers

T1 seed comments

T1 seedling comments

Genotype: AOE F02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

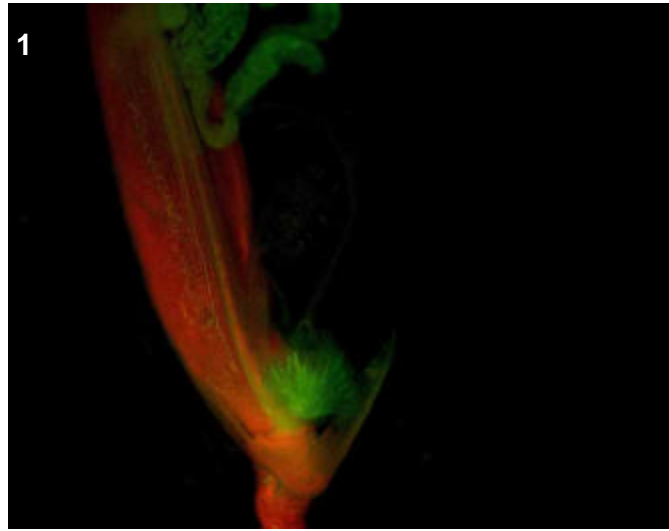
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Weak lodicule expression

T1 seed comments

T1 seedling comments

Genotype: AOE G06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid with glowing lodicules and floral vascular (no pic taken)

T1 seed comments

T1 seedling comments

Genotype: AOF A07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

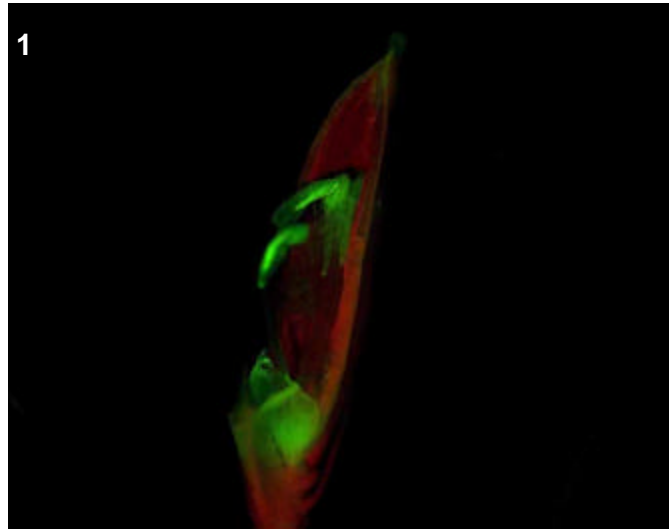
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid, with many parts glowing in flower: lodicules, anthers and vascular of flower

T1 seed comments

T1 seedling comments

Genotype: AOF B03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:

T0 comments

Moderate expression in vascular of sheath, leaf and flower

T1 seed comments

T1 seedling comments

Genotype: AOF B09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

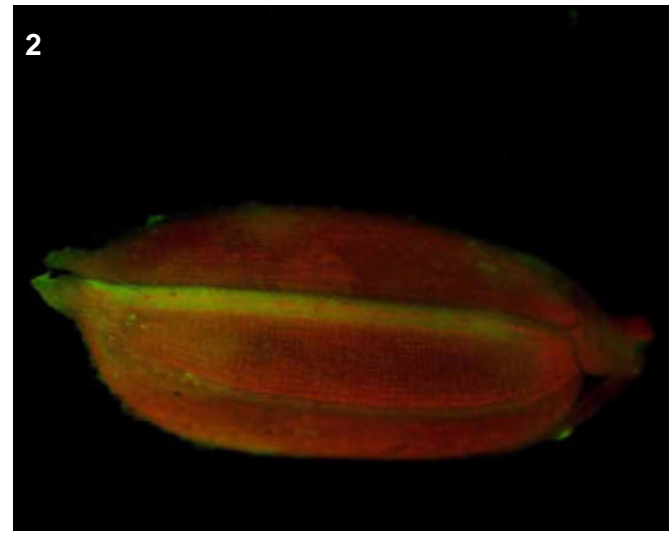
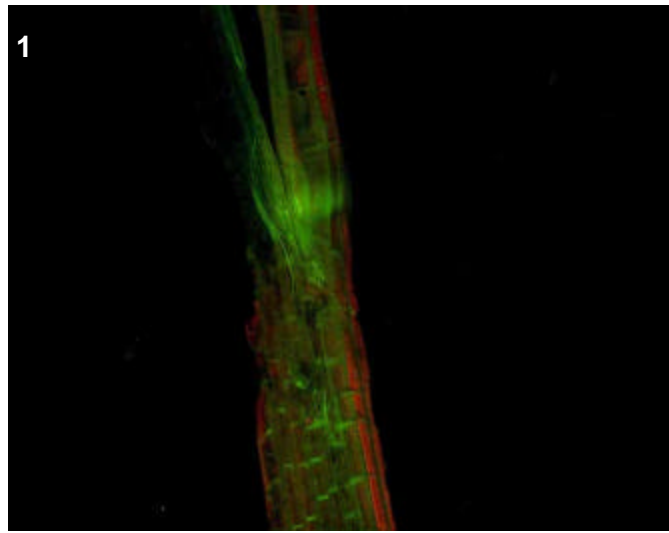
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression in collar and surrounding vascular tissue of sheath and leaf, as well as vascular of flower.

T1 seed comments

T1 seedling comments

Genotype: AOF C11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

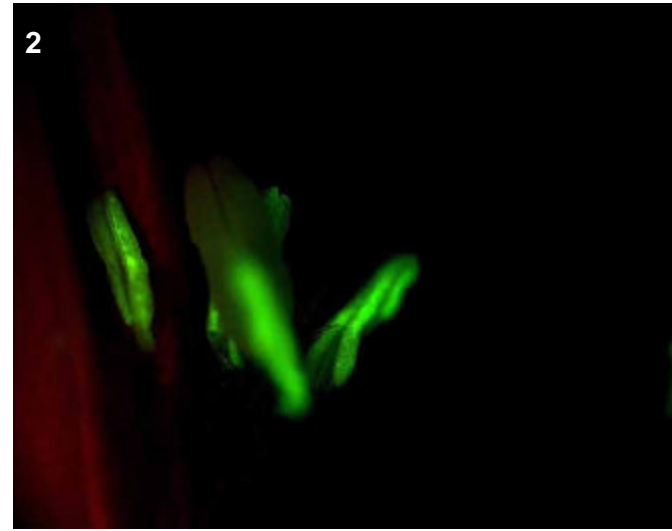
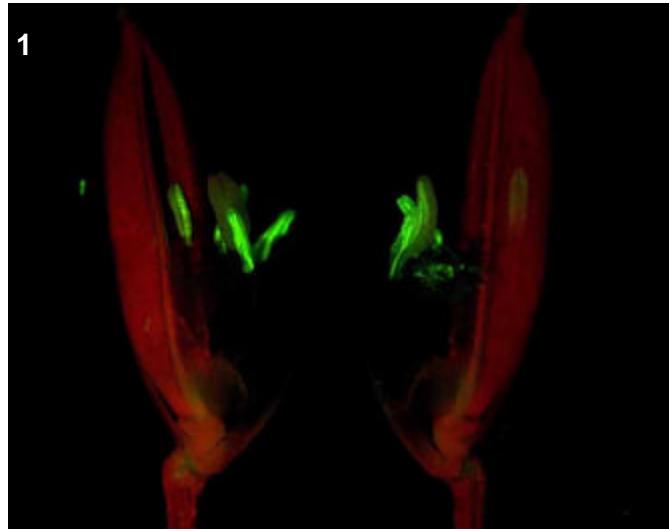
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 130



T0 comments

A bright, anther-specific line.

T1 seed comments

T1 seedling comments

Genotype: AOF E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

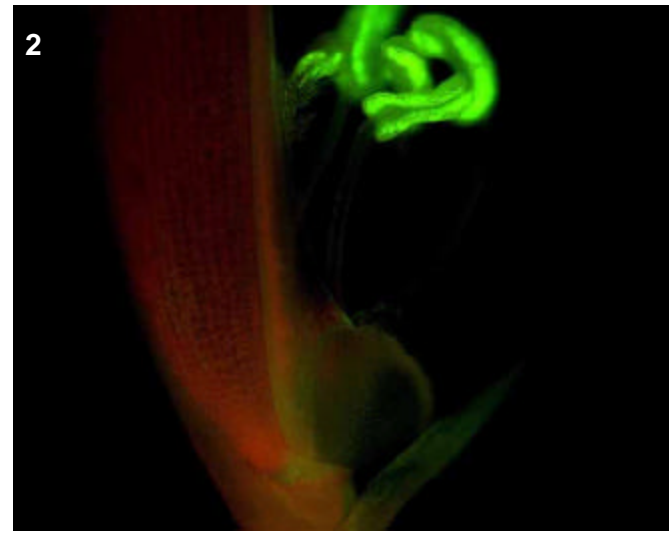
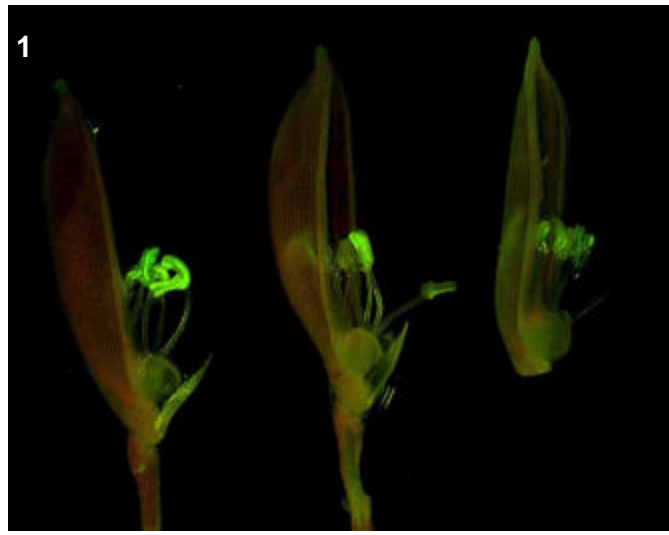
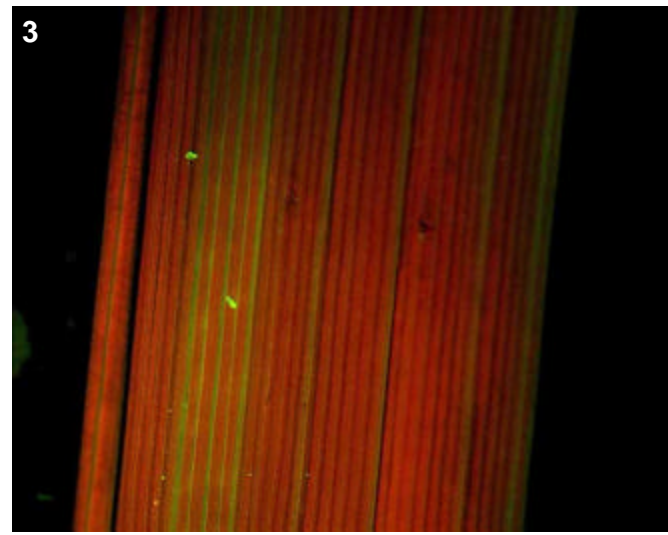
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Consistent anther specific line, with some vascular expression in leaf sample

T1 seed comments

T1 seedling comments

Genotype: AOF H09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

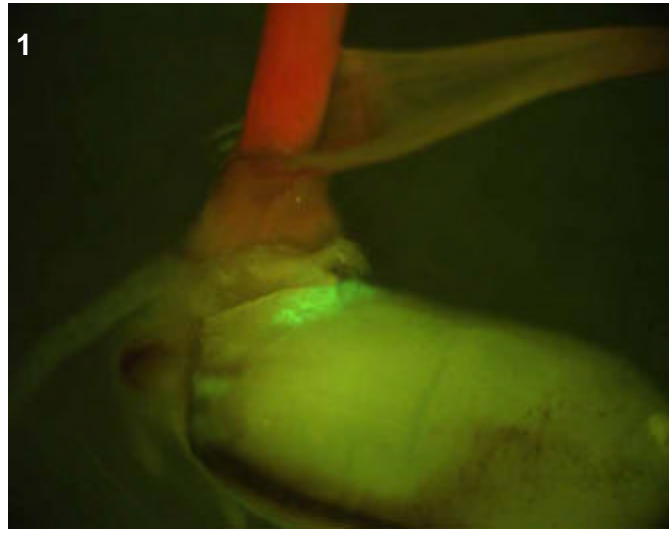
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

1/5 seedlings showed this pattern.

Genotype: AOF H11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

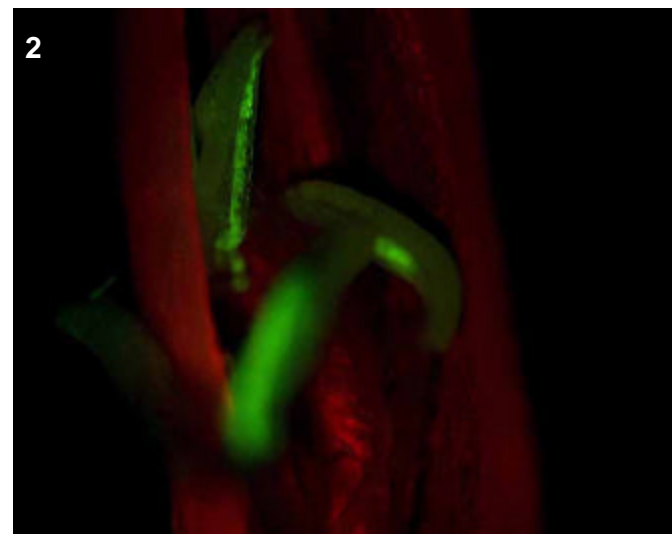
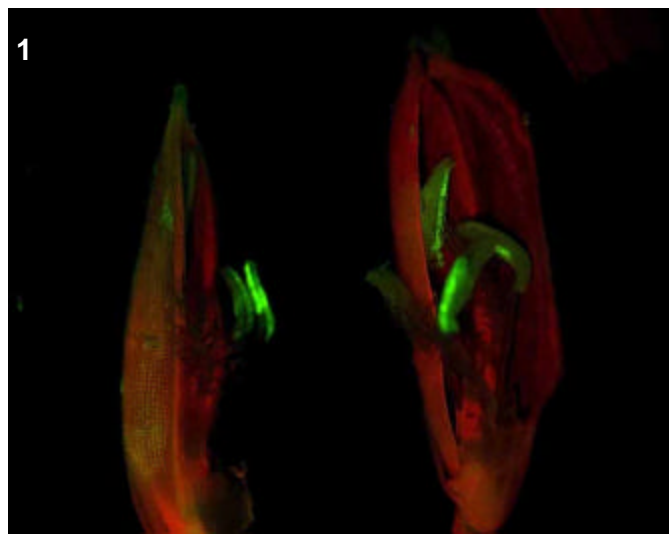
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Sometimes bright anthers in flowers, but expression inconsistent between flowers and within flowers

T1 seed comments

T1 seedling comments

Genotype: AOG A05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

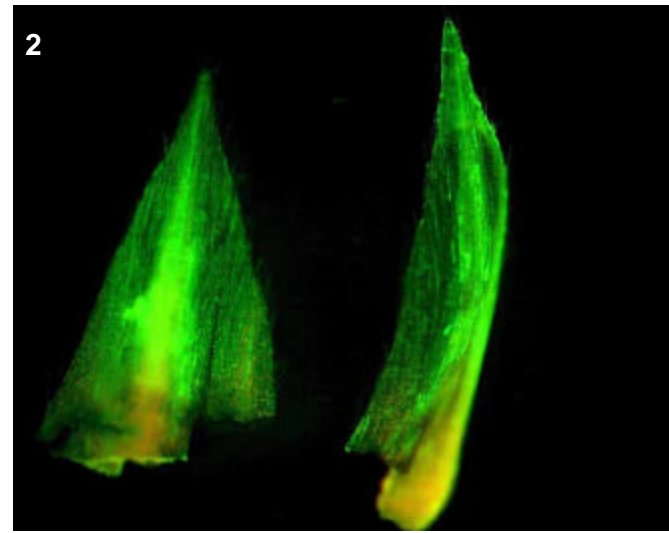
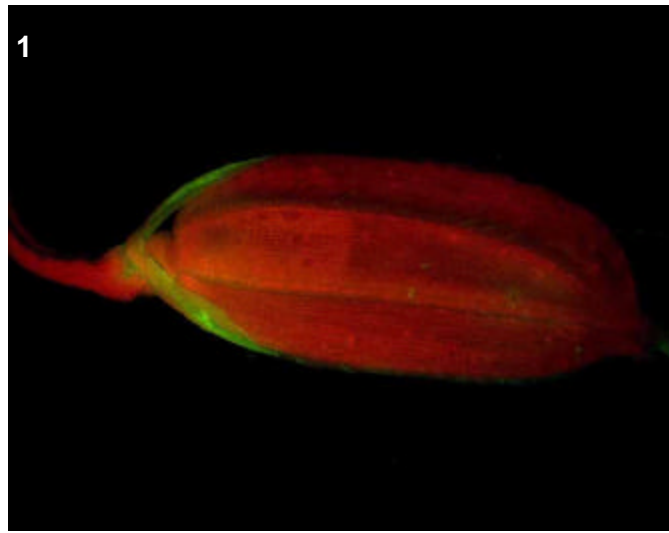
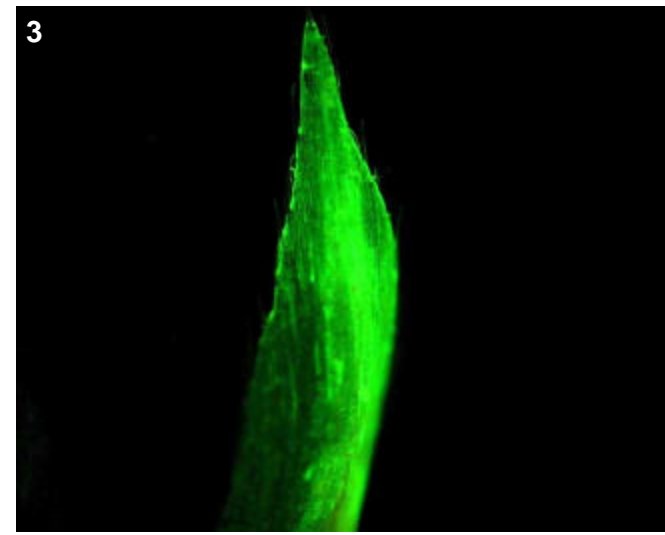
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

The sterile lemma at the base of flowers are glowing, may also be weak vascular activity but tissue was too degraded to tell

T1 seed comments

T1 seedling comments

Genotype: AOG A06

Screened

T0 mature plant
 T1 seed
 T1 seedling
 T1 mature plants

Expression

None
 Bright
 Medium
 Weak
 Unsure

Pictures

T0 mature plant: 1-3
T1 seed/seedling: 4-6
T1 mature plant:

T0 Flower

YES
 POSSIBLE

Stamen: anther
 Stamen: filament
 Carpel: stigma
 Carpel: style
 Carpel: ovary
 Carpel: base
 Lemma/palea
 Lodicule
 Rachilla
 Sterile lemma
 Pedicel
 Guard cells
 Trichomes
 Vascular

T0 Blade

YES
 POSSIBLE

Vascular
 Guard cells
 Trichomes
 Mesophyll

T0 Sheath

YES
 POSSIBLE

Collar
 Vascular
 Trichomes
 Guard cells
 Mesophyll

T1 Seed

YES
 POSSIBLE

Embryo

Coleorhiza
 Scutellum
 Aleurone/Endo.
 Vasc. bundle

T1 Seedling

YES
 POSSIBLE

SHOOT
 ROOT
 ENDOSPERM

Coleoptile
 Sheath tissue
 Blade tissue
 Leaf tip
 Collar
 Trichomes
 Guard cells

S. vascular
 Seminal root
 Crown roots
 Lateral roots
 Root cap
 Root apex
 R. stele
 R. cortex/end.
 R. epidermis

Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

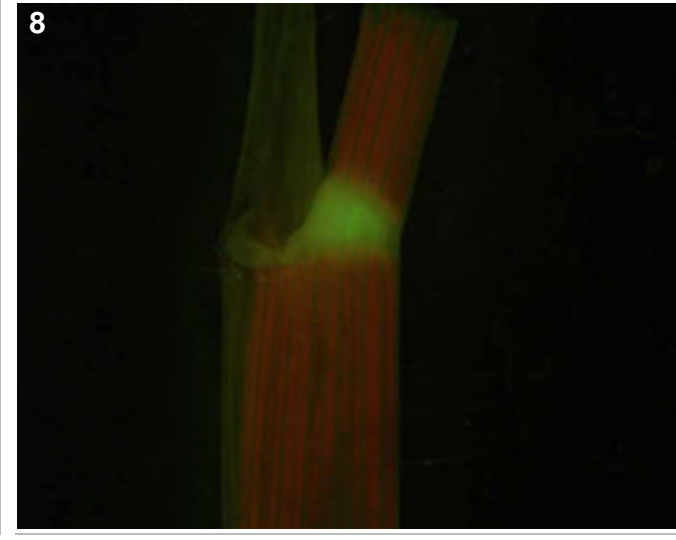
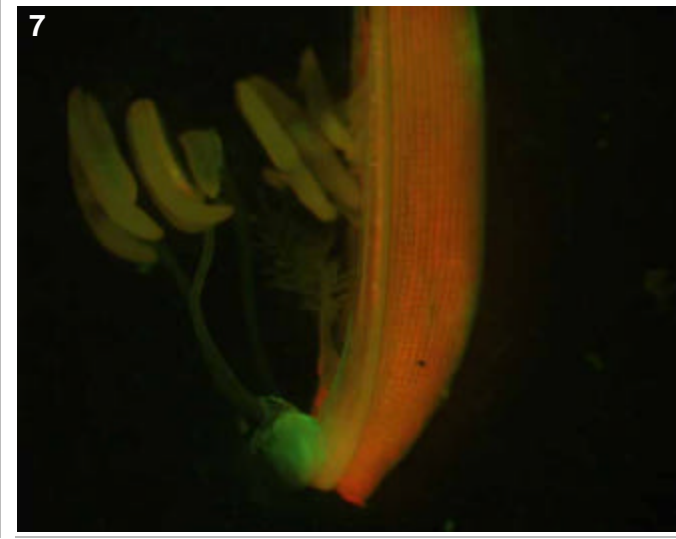
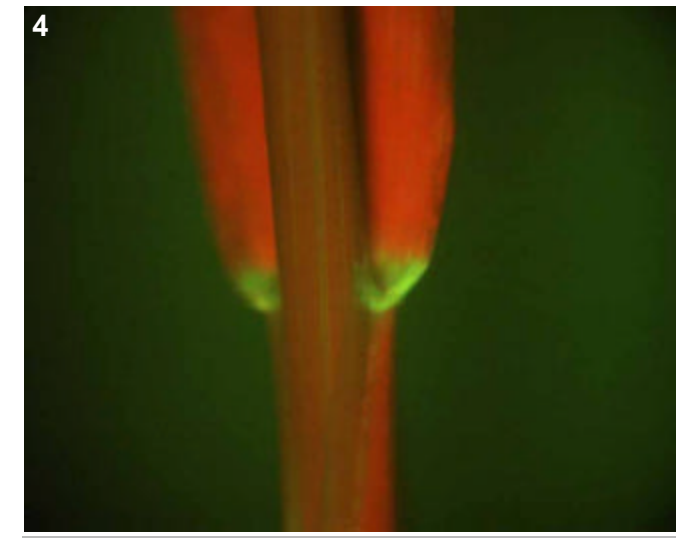
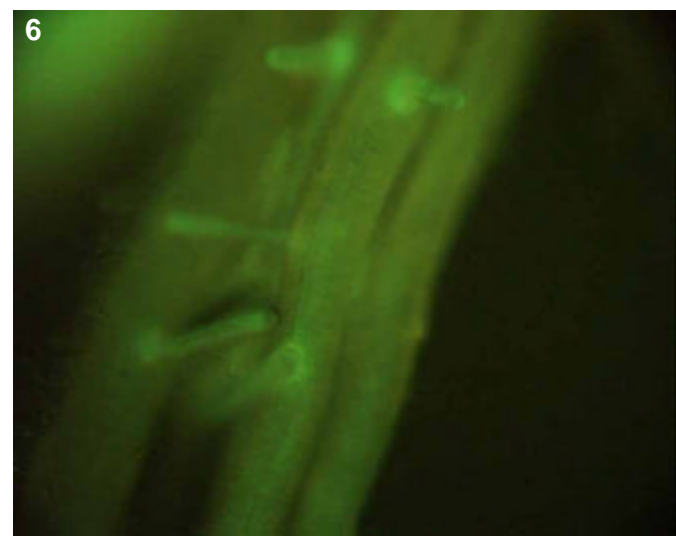
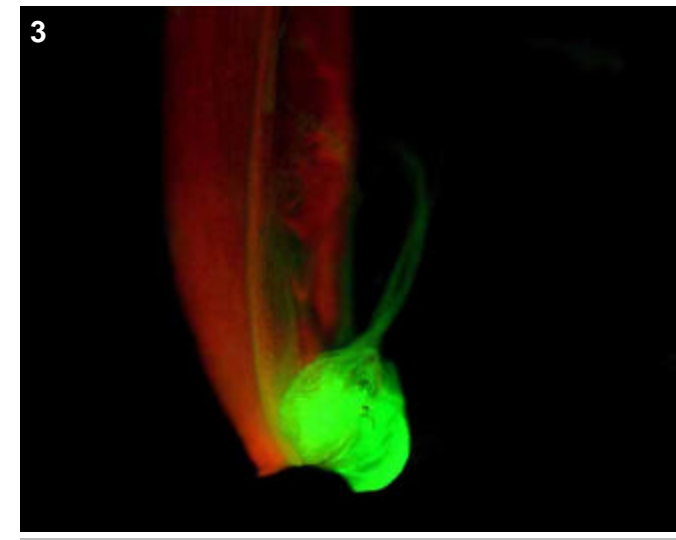
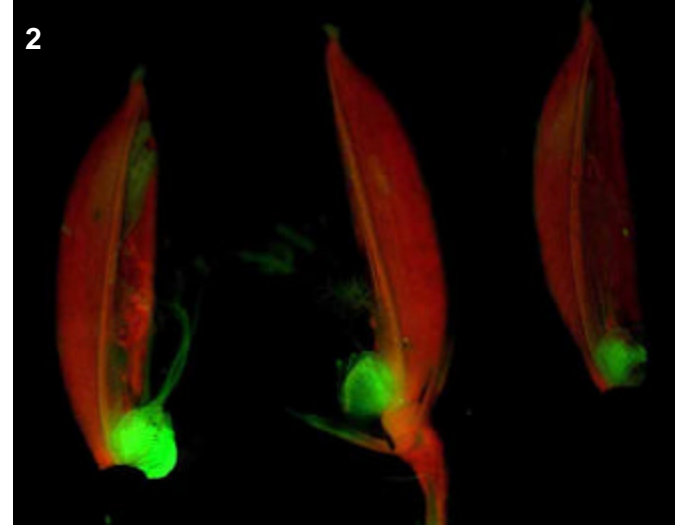
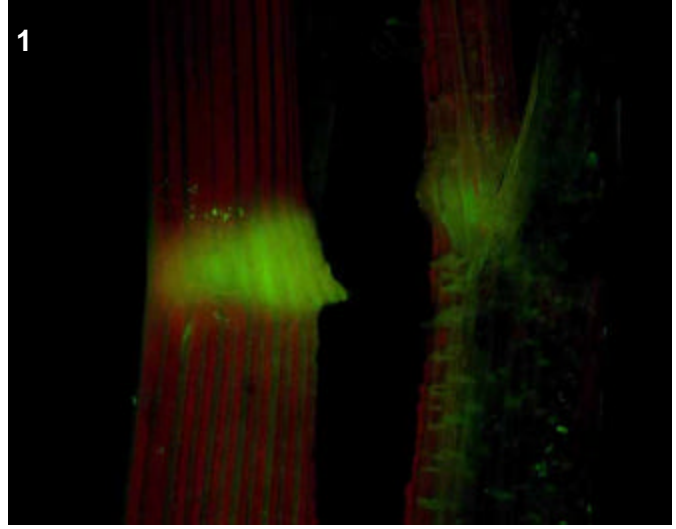
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 166



T0 comments
Expression moderate in collar and sheath vascular but bright in lodicules of flower

T1 seed comments

T1 seedling comments
Collar and vascular of shoot, vascular in young lateral roots as well. Digesting endosperm, it appears, also bright.

Genotype: AOG B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

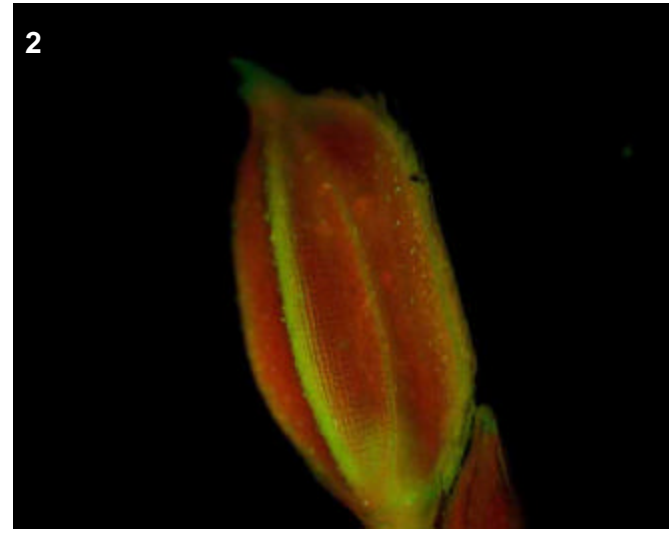
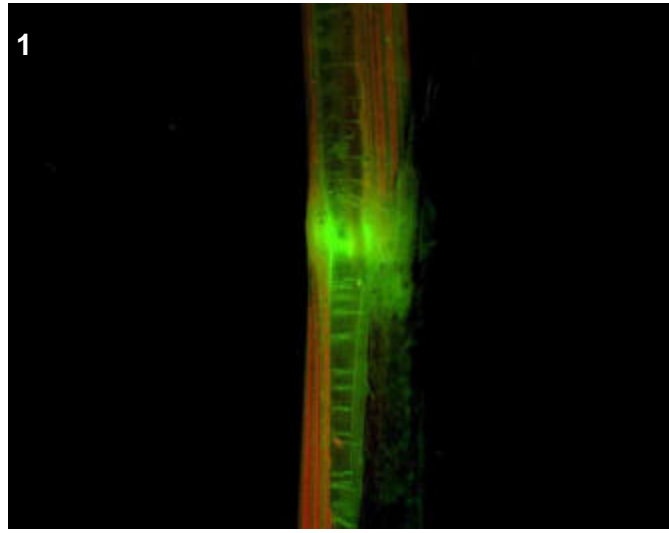
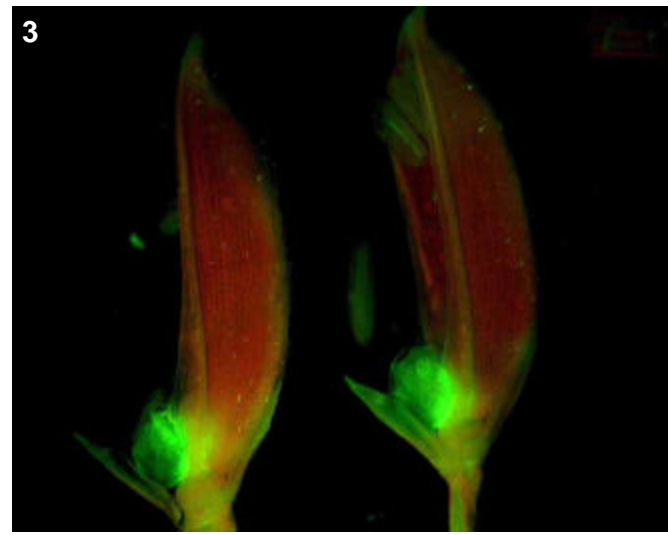
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in the collar and surrounding vascular of sheath and leaf. Also floral vascular and expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOG C04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

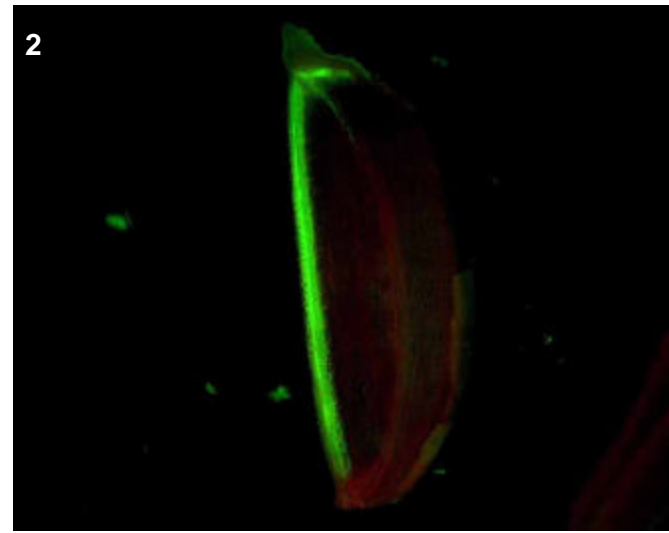
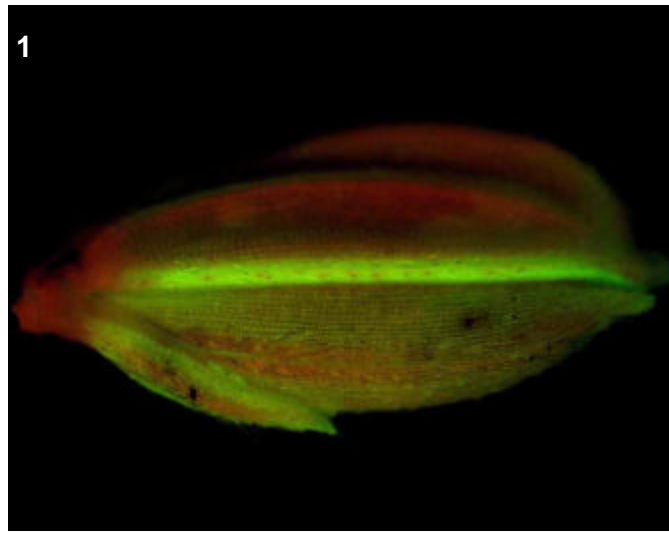
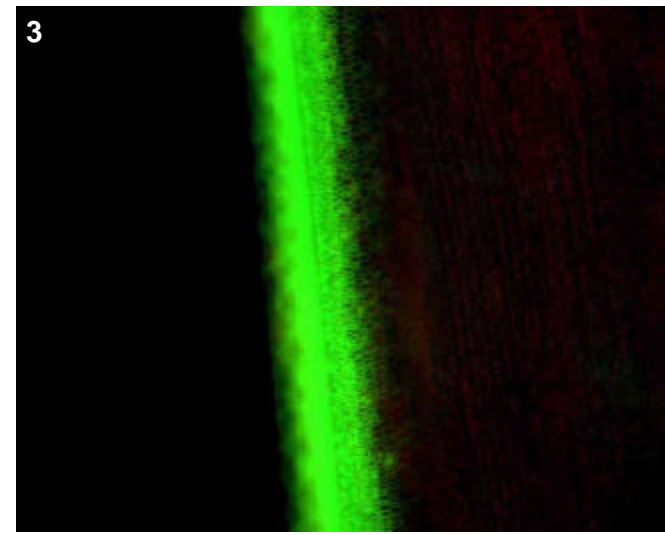
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Extremely bright GFP ONLY in the vascular tissue of flower, nothing else

T1 seed comments

T1 seedling comments

Genotype: AOG C07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

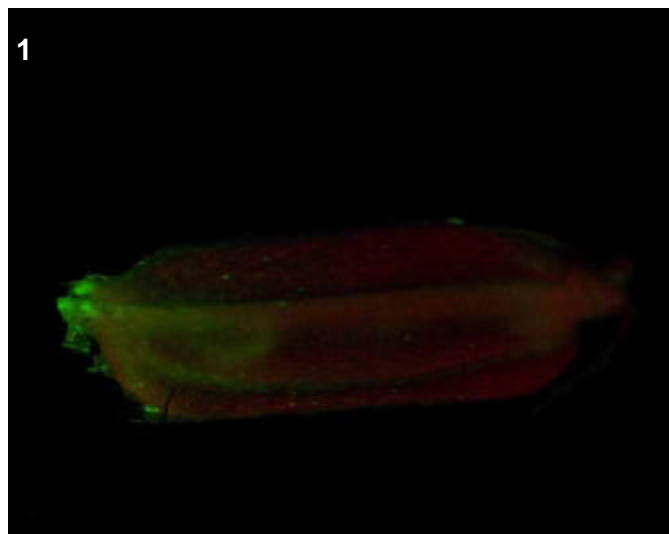
No GFP detected

T1 in greenhouse?

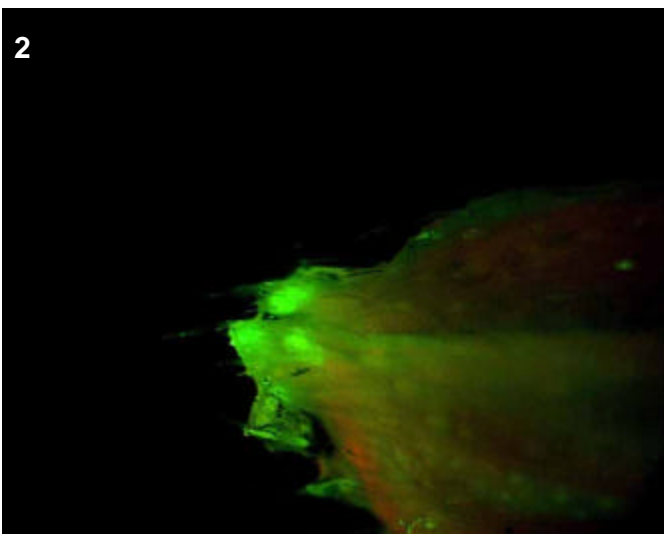
Confocal?

Number T2 seed produced:

1



2



T0 comments

Moderate expression in tips of flowers

T1 seed comments

T1 seedling comments

Genotype: AOG C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

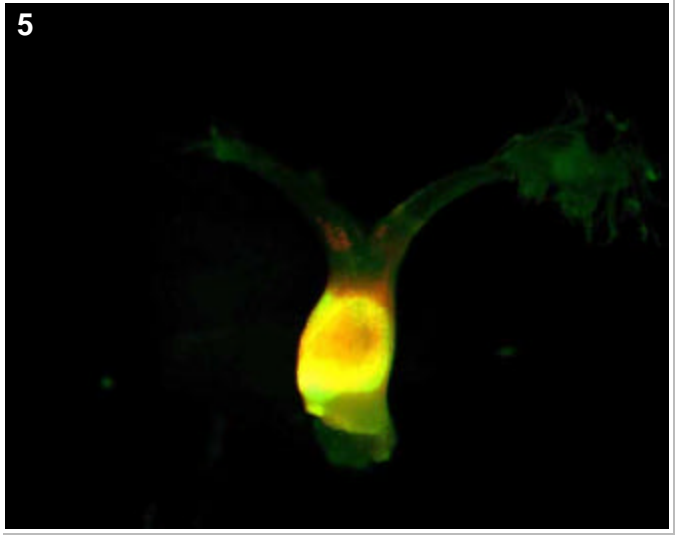
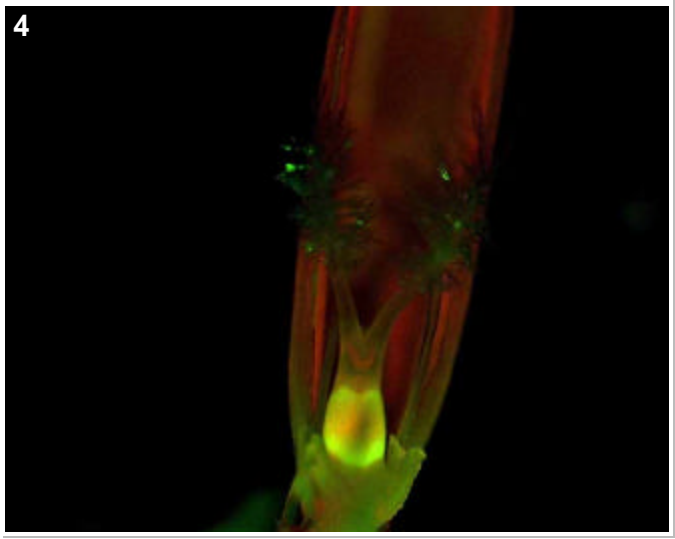
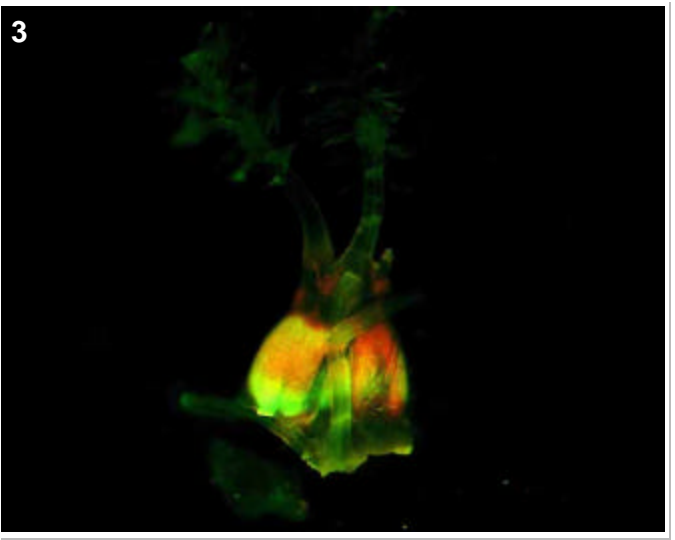
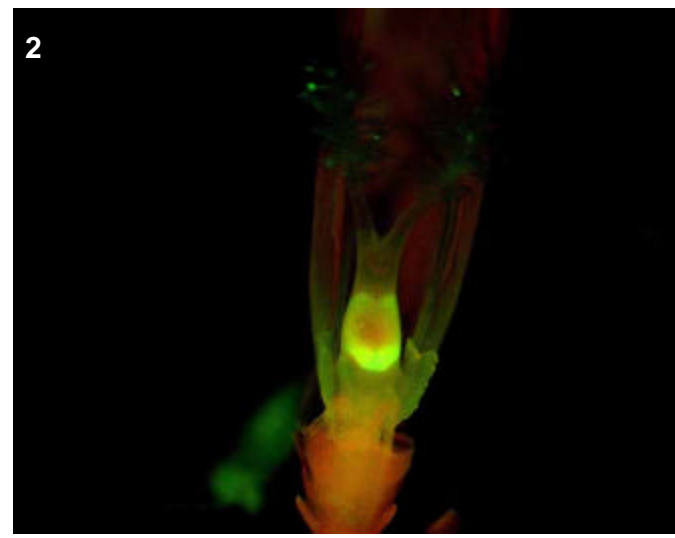
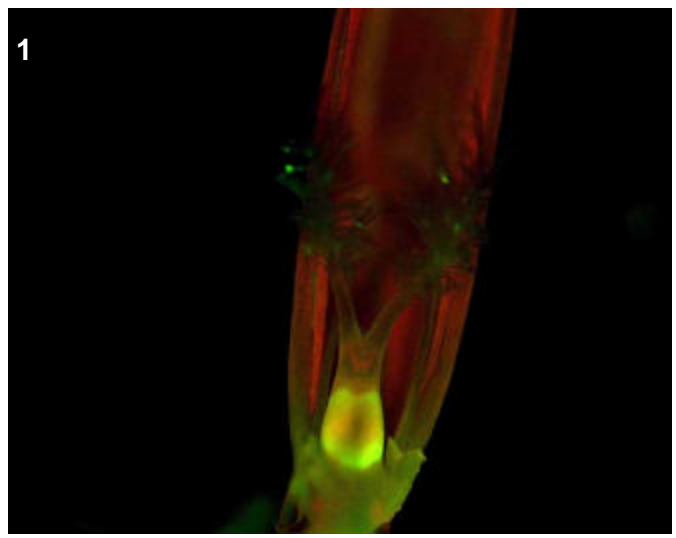
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments
Strong specific expression in the ovary of flower

T1 seed comments

T1 seedling comments

Genotype: AOG F06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

Only saw collar and sheath vascular expression

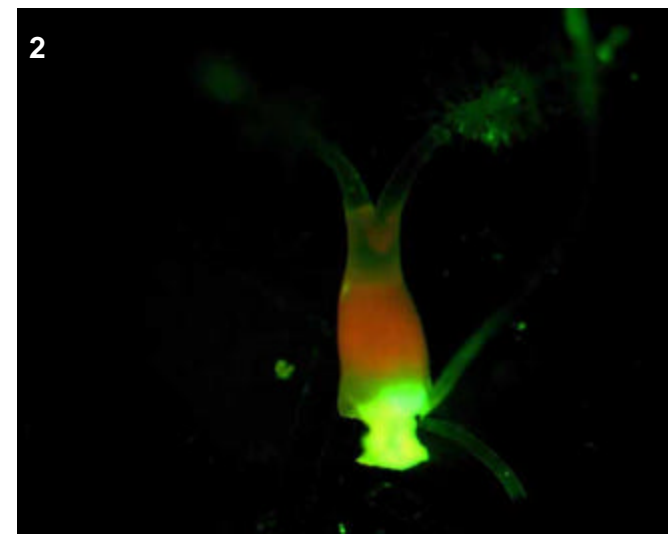
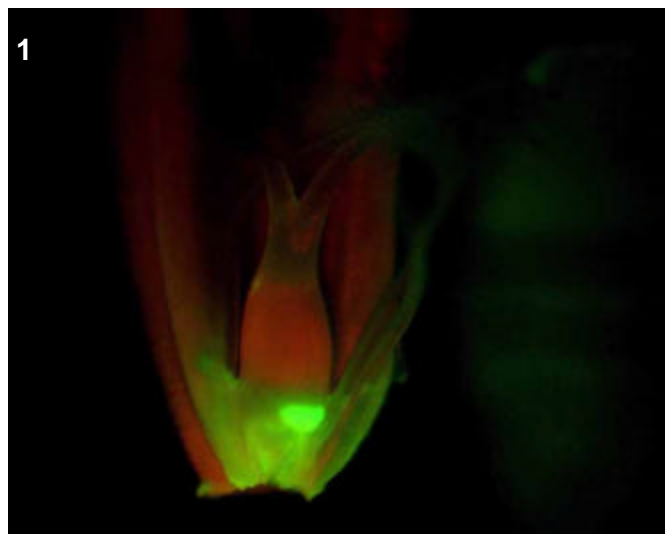
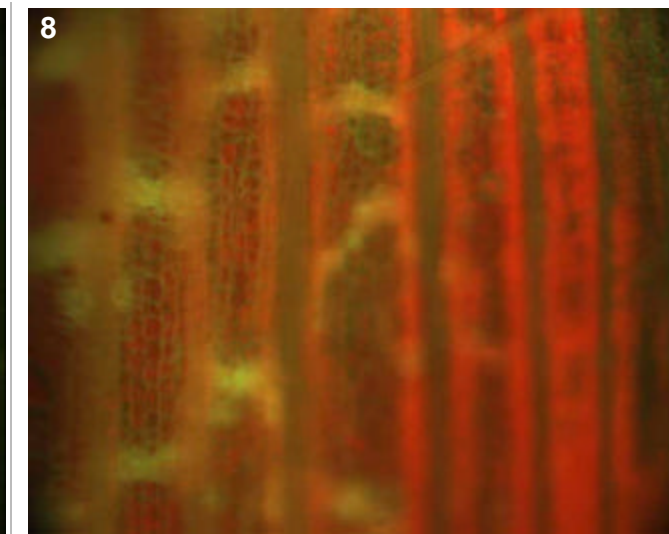
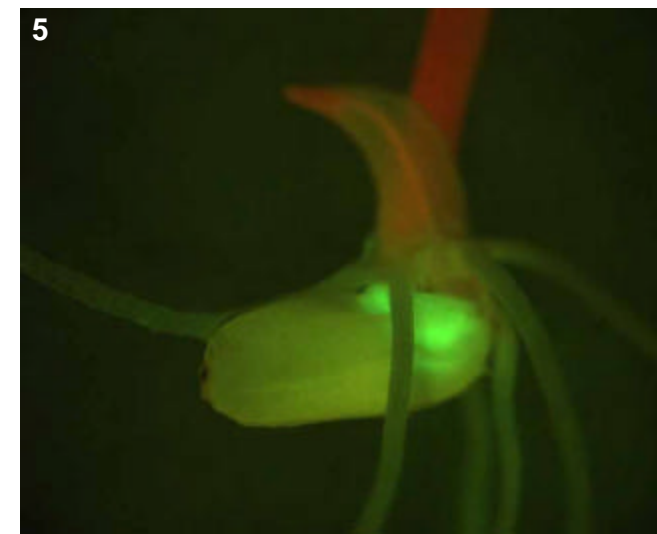
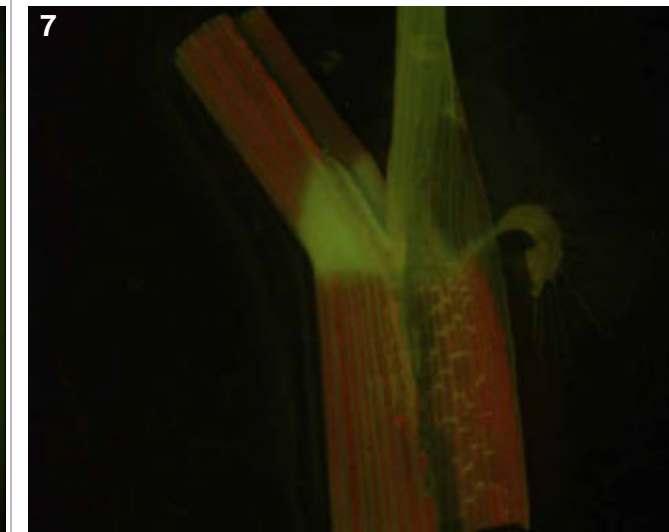
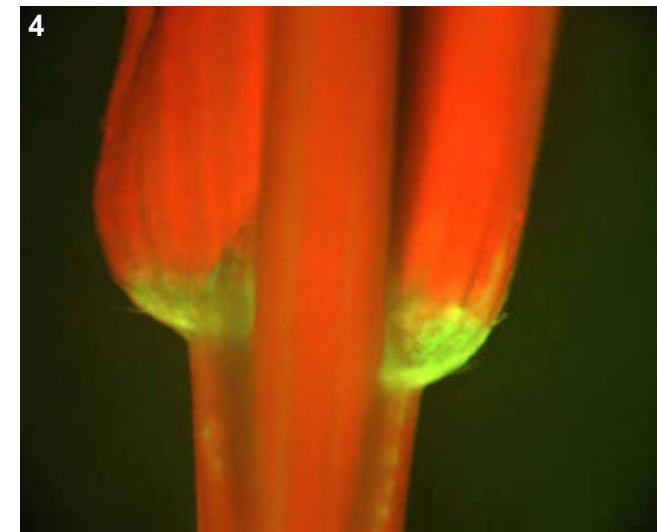
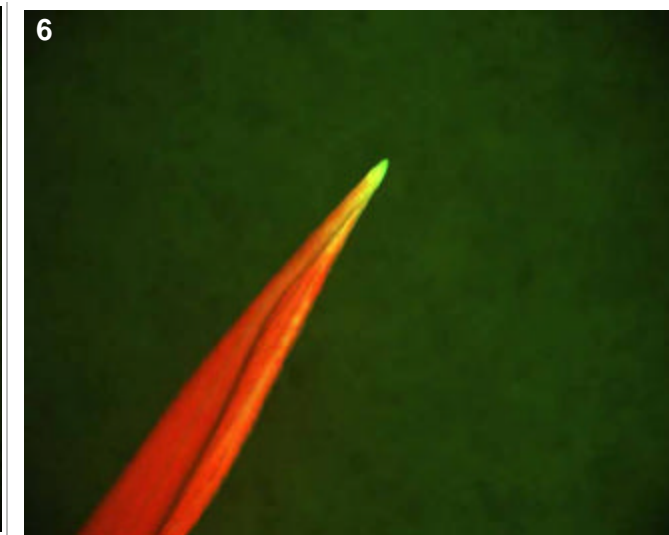
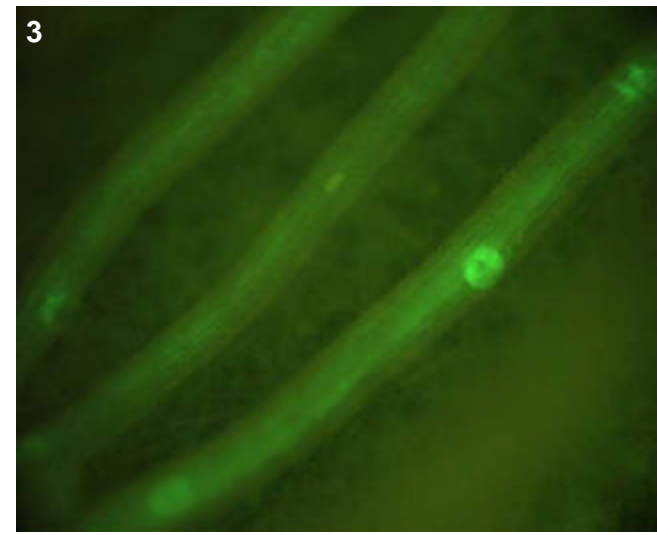
No GFP detected

T1 in greenhouse?

YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 79



T0 comments

The base of the pistil is GFP bright, upon closer inspection I discovered that it is the small piece of leafy tissue that the pistil sits on that is glowing, as well as the rachilla?

T1 seed comments

4/5 seeds show expression.

T1 seedling comments

Vascular in crown and lateral roots. Seedlings all show digesting endosperm pattern as well. Expression in shoot ranges from nothing to collar and tips of leaves.

Genotype: AOG F10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

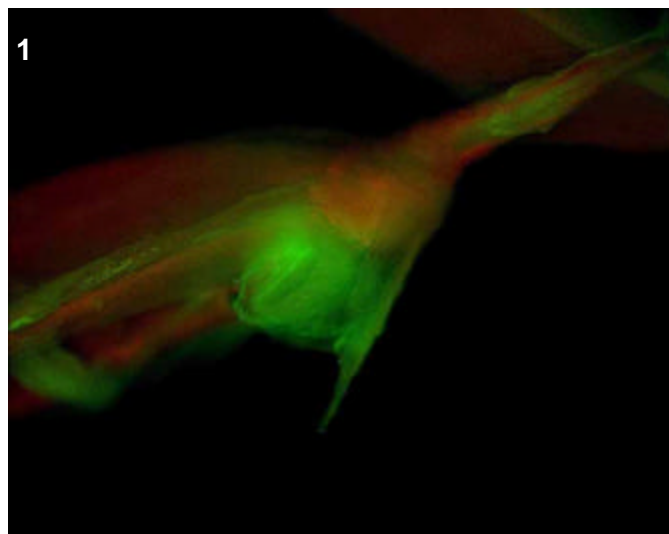
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in lodicules and sterile lemma.

T1 seed comments

T1 seedling comments

Genotype: AOG G05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

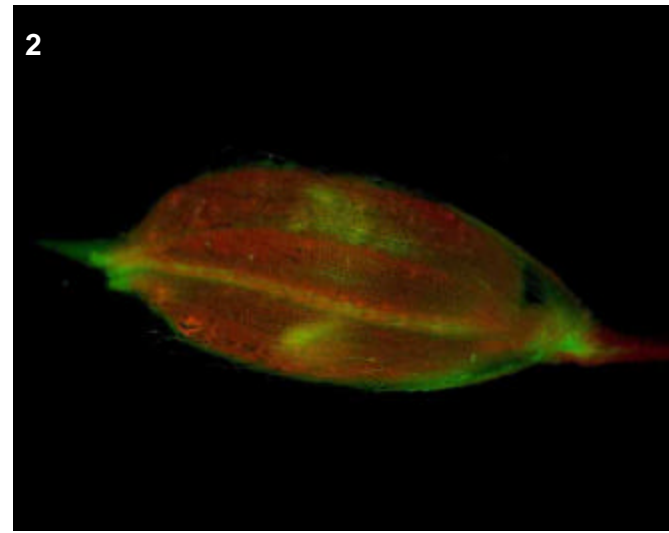
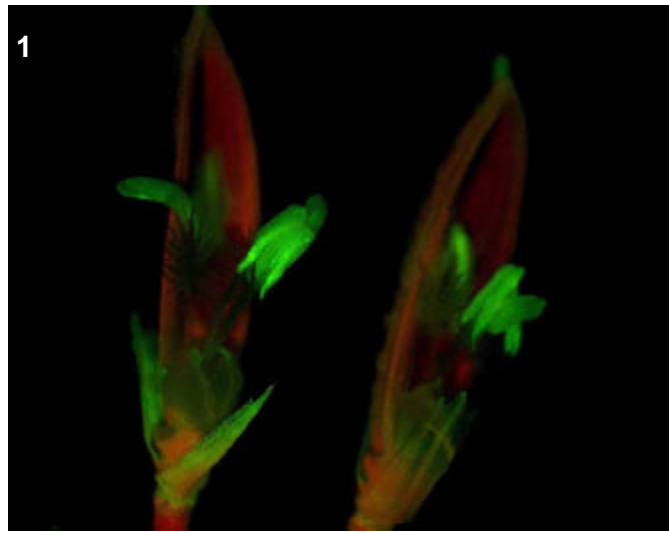
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid with strong floral vascular expression and anther expression

T1 seed comments

T1 seedling comments

Genotype: AOG G08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

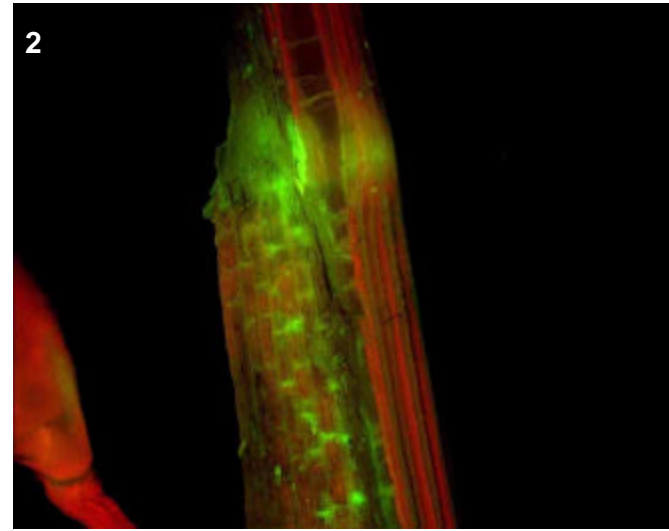
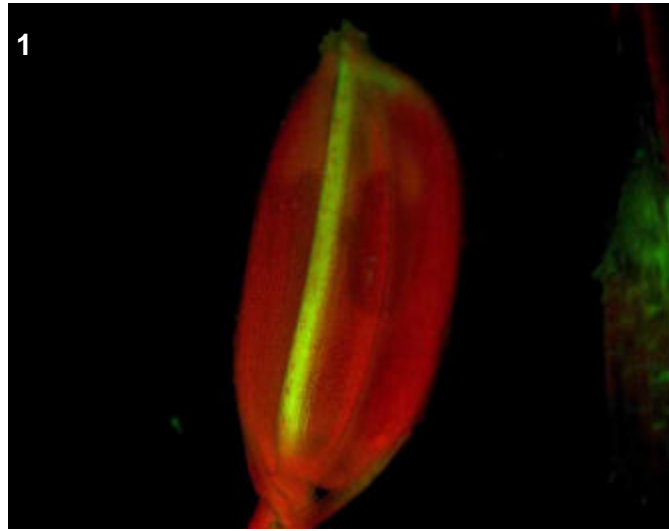
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A bright vascular line. Expression in vascular of sheath and flower, and in collar.

T1 seed comments

T1 seedling comments

Genotype: AOG H05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

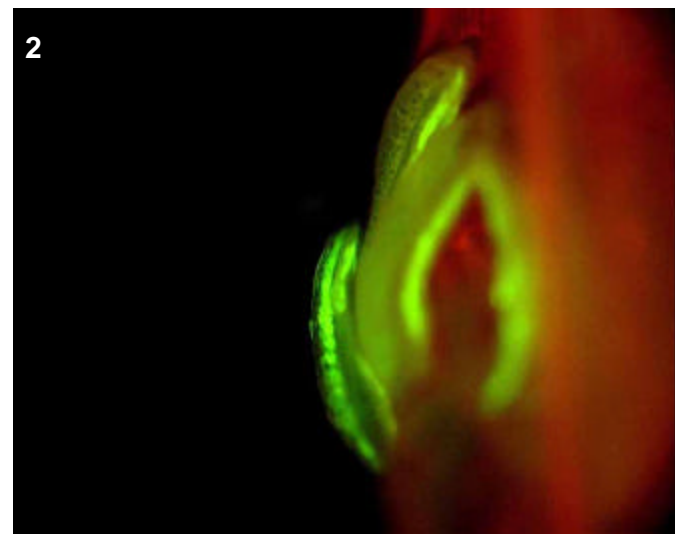
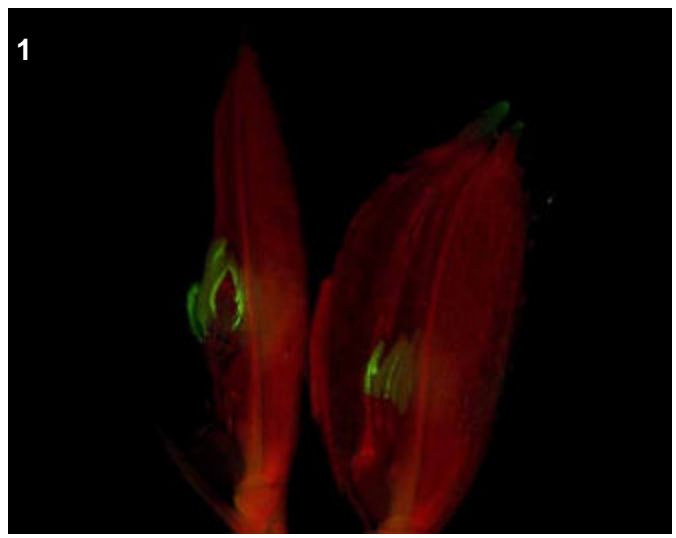
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong, consistent expression in anthers

T1 seed comments

T1 seedling comments

Genotype: AOG H09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

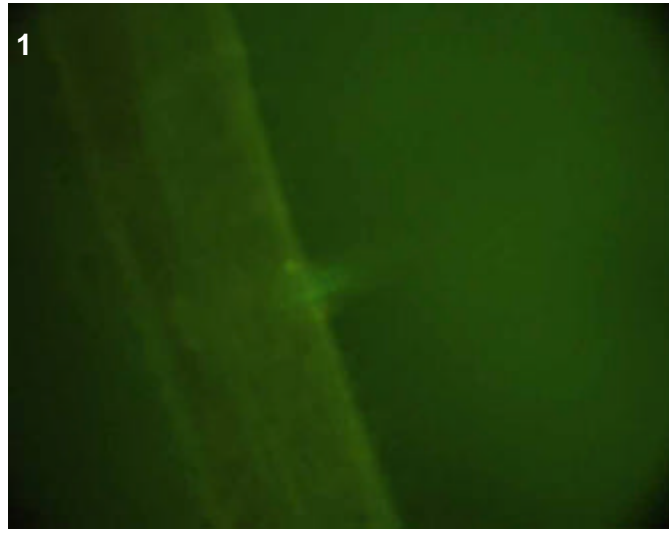
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 112



T0 comments

T1 seed comments

T1 seedling comments

I think there is faint expression towards the base of the emerging lateral roots--very specific pattern.

Genotype: AOG H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

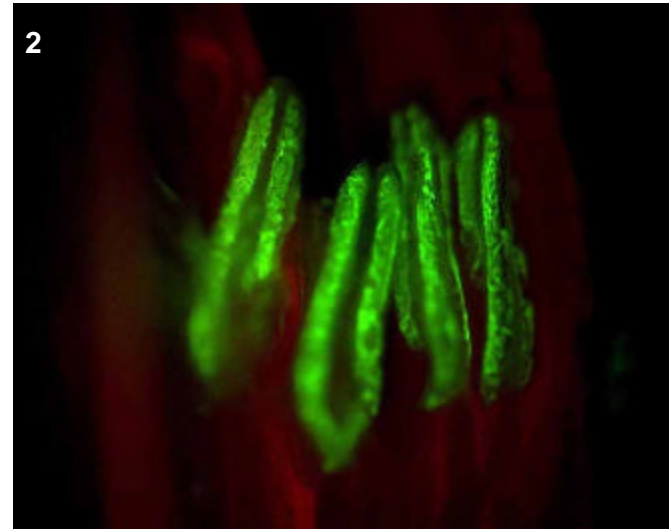
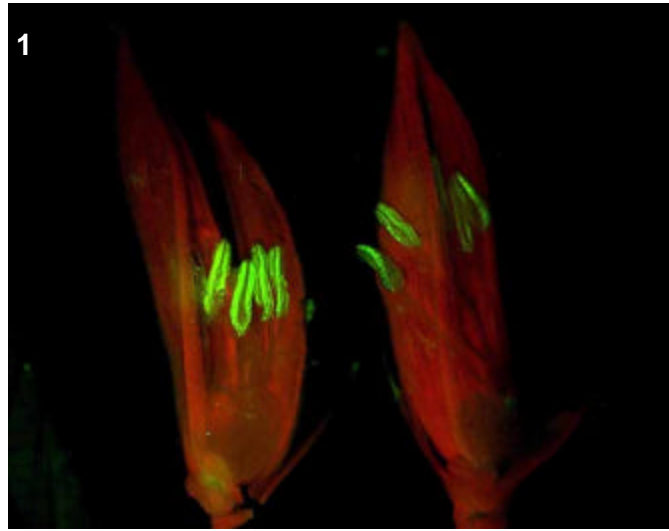
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong, consistent expression in anthers

T1 seed comments

T1 seedling comments

Genotype: AOG H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

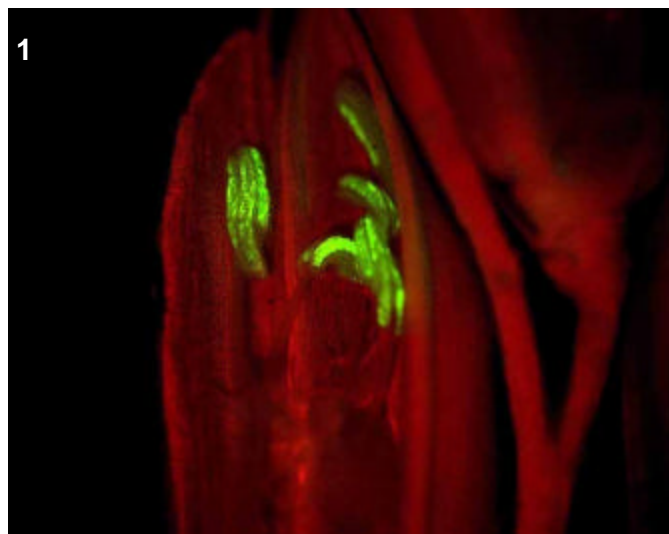
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

All of the younger flowers had glowing anthers, the older ones were not as fluorescent but perhaps this is because they have released their pollen.

T1 seed comments

T1 seedling comments

Genotype: AOH C01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

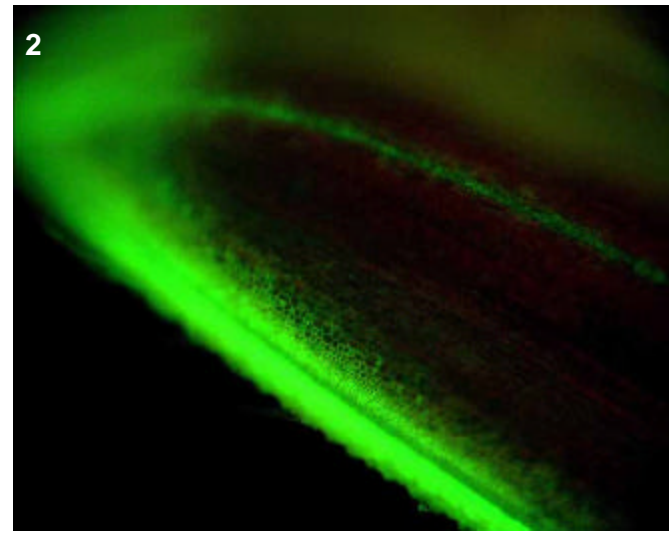
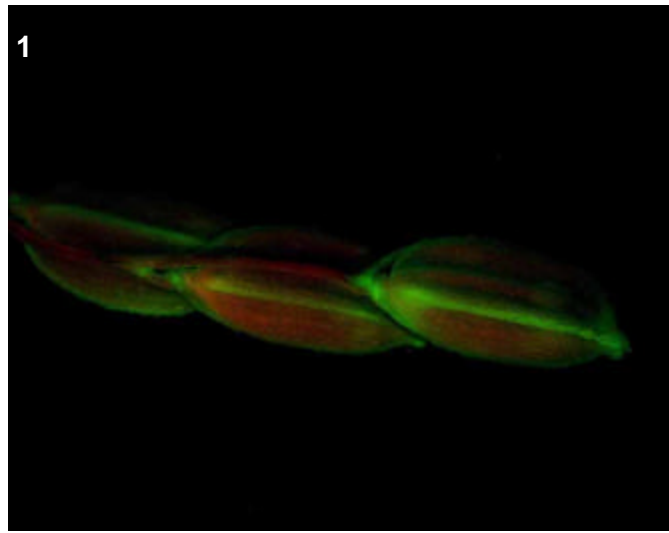
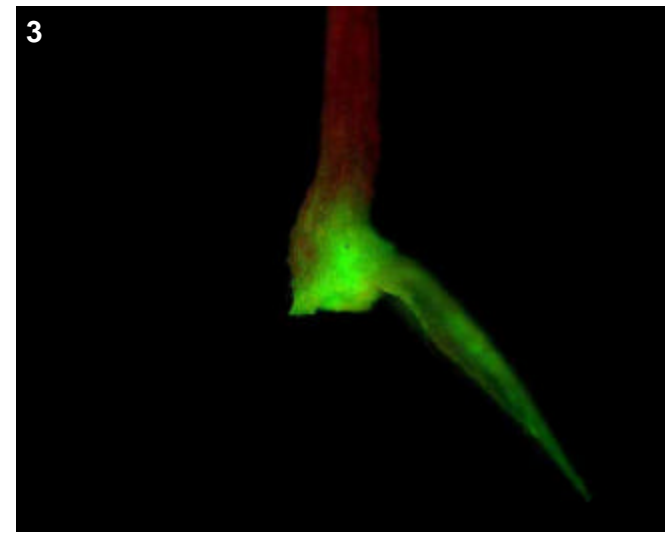
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

strong floral vascular and at junction of flower to stem, moderate collar and sheath vascular

T1 seed comments

T1 seedling comments

Genotype: AOH C03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

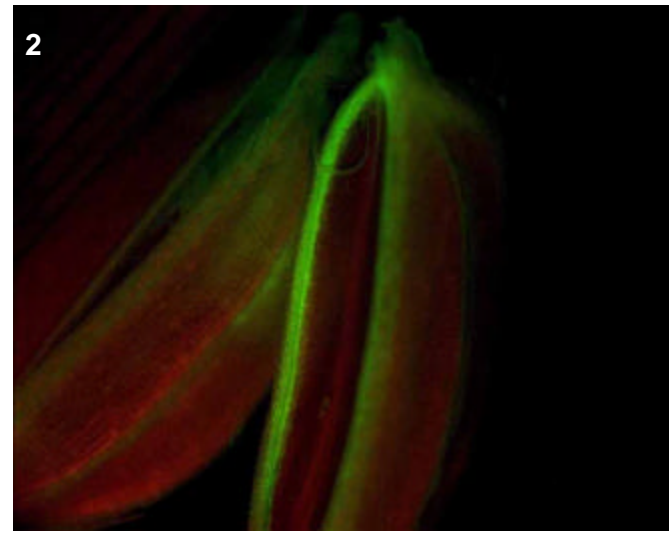
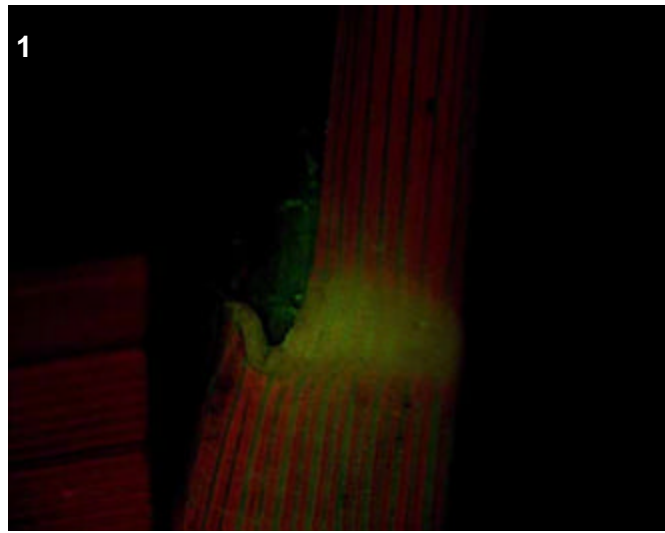
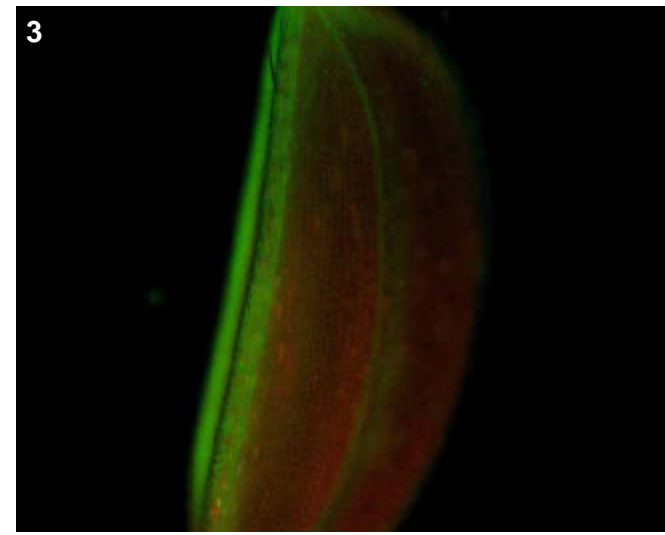
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong floral vascular expression, weak collar and sheath vascular

T1 seed comments

T1 seedling comments

Genotype: AOH C04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

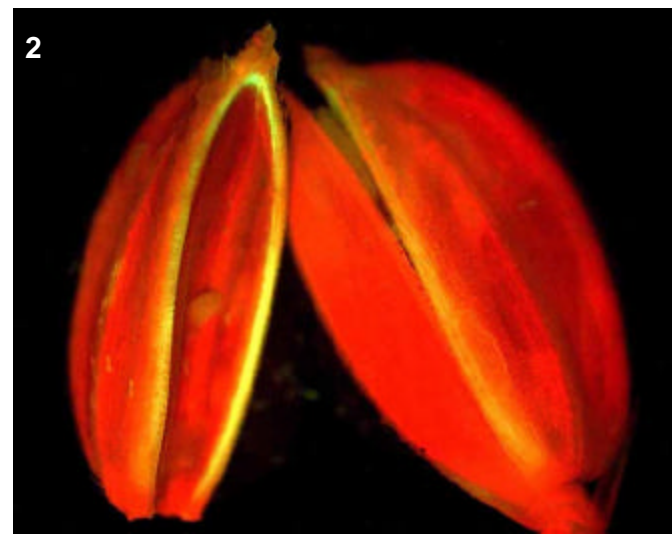
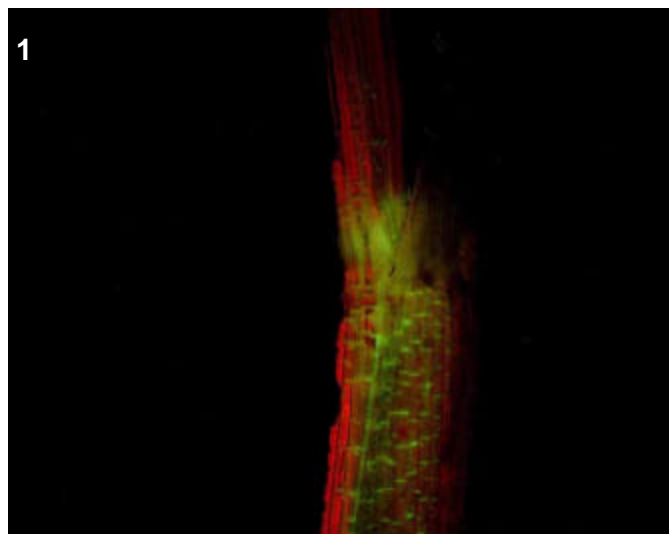
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 6



T0 comments

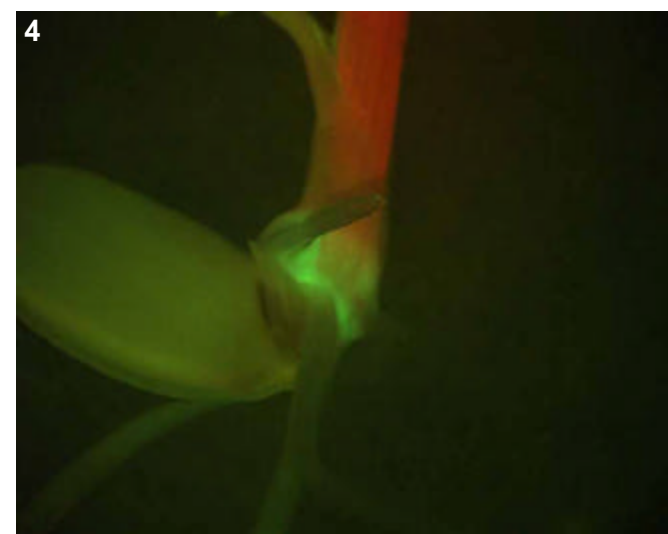
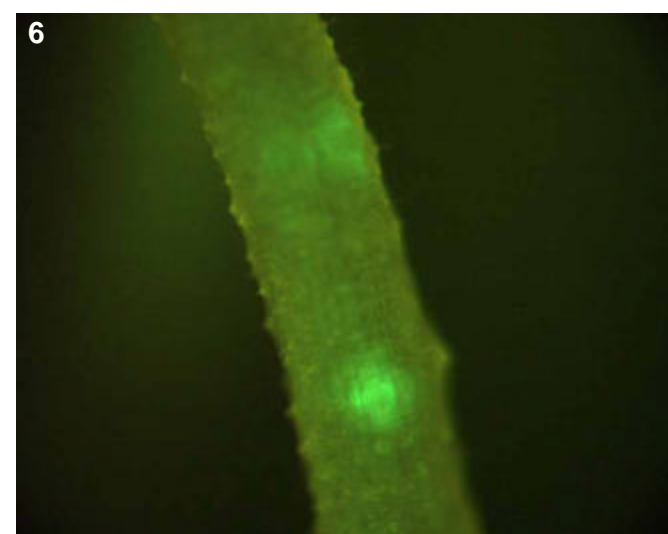
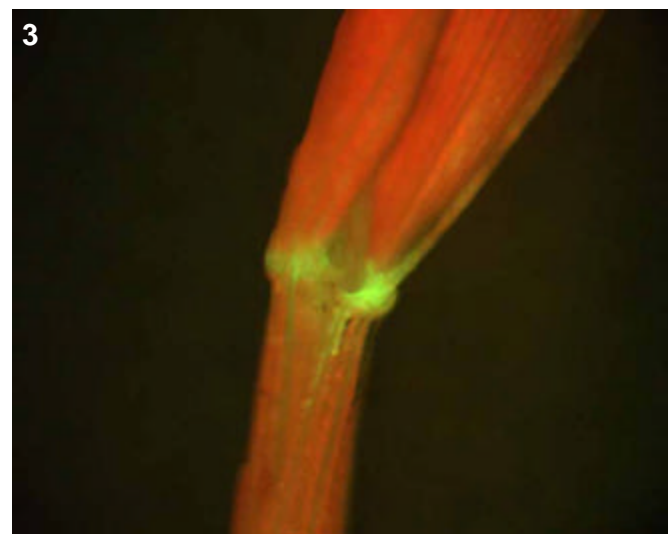
Moderate expression in collar and sheath vascular, strong expression in floral vascular.

T1 seed comments

1/5 seeds showed faint expression in scutellum.

T1 seedling comments

The base of the seedling shoot is bright, perhaps the mesocotyl? Shoot expression in addition to bright lateral roots.



Genotype: AOH G10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

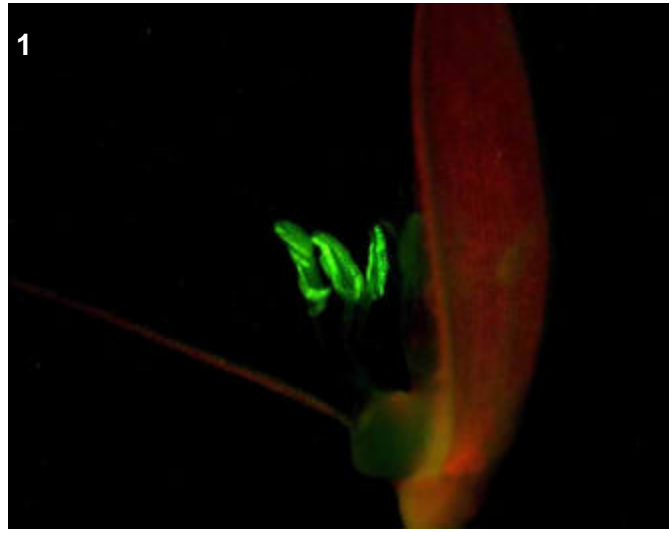
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

younger flowers had glowing anthers

T1 seed comments

T1 seedling comments

Genotype: AOI F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- Again, no expression in adult plants.

T0 pattern verified plus:

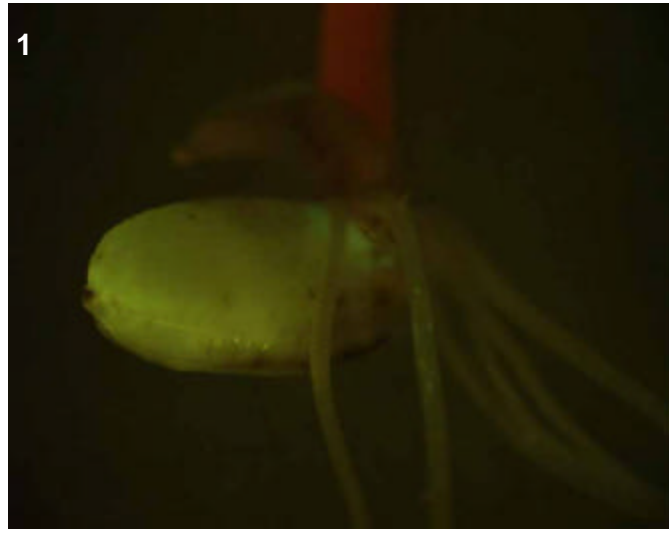
New pattern:

No GFP detected

T1 in greenhouse?
YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 125



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AOI G04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

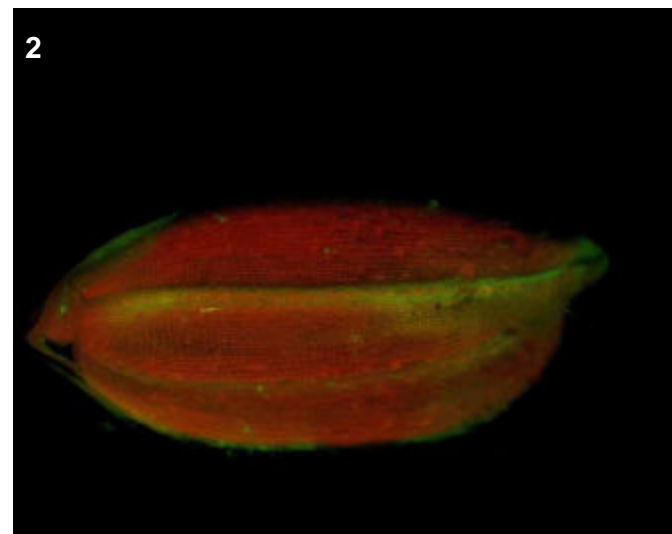
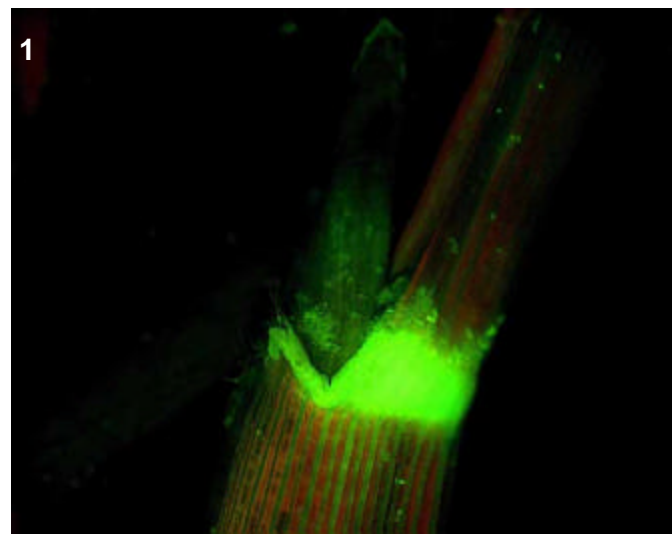
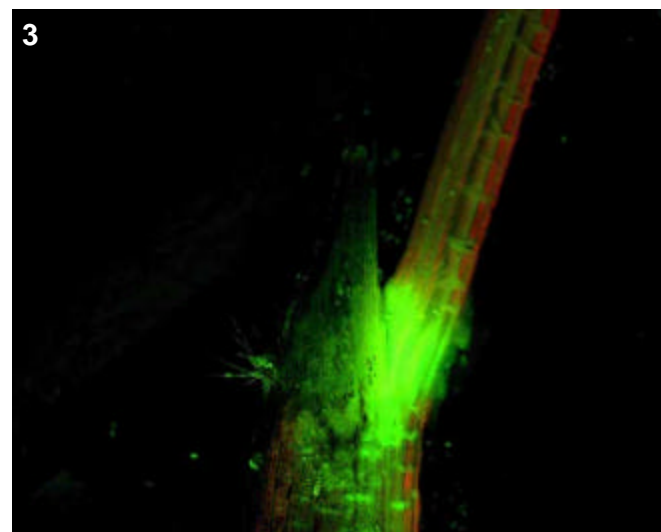
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in collar, and vascular of sheath, leaf and flower

T1 seed comments

T1 seedling comments

Genotype: AOJ B11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

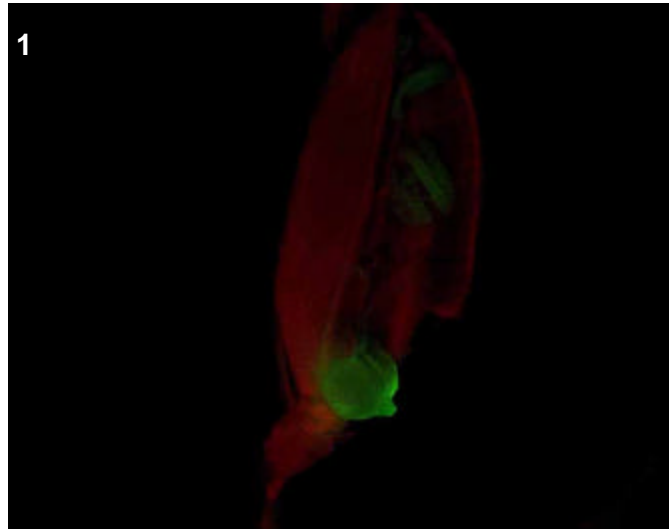
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

lodicule specific line

T1 seed comments

T1 seedling comments

Genotype: AOJ C07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

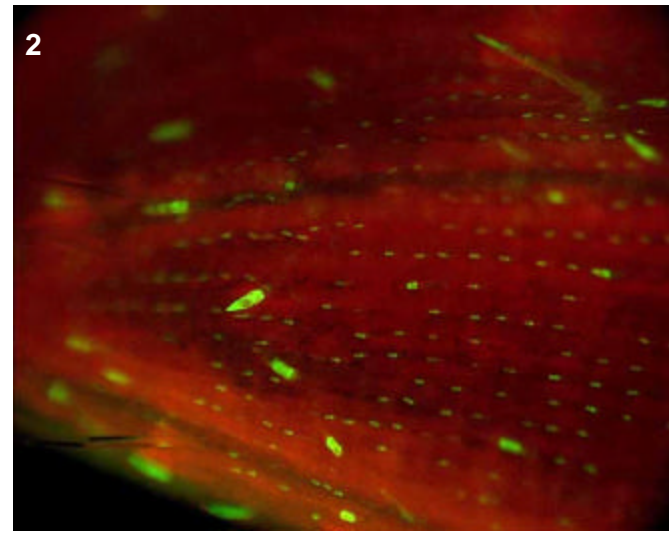
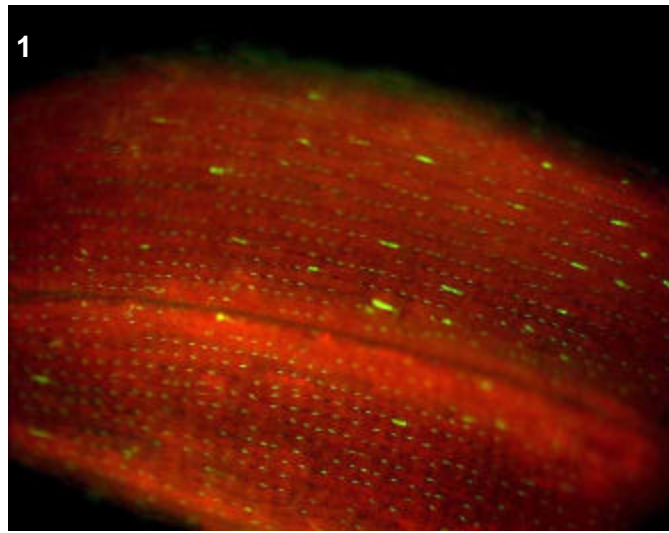
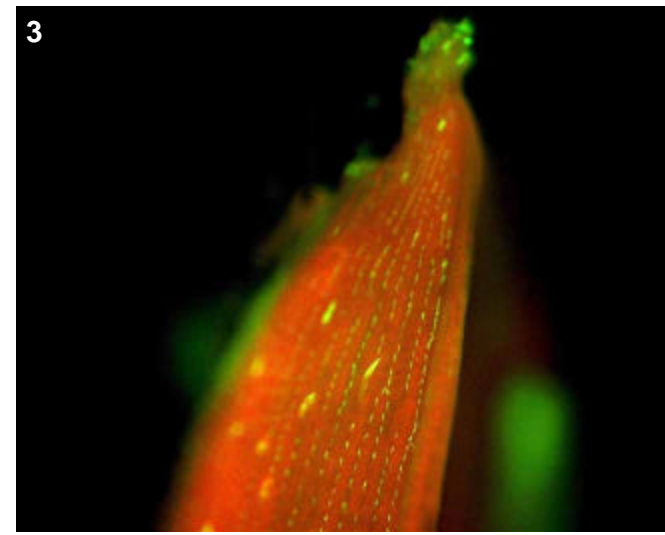
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in the floral stomata and hairs/trichomes

T1 seed comments

T1 seedling comments

Genotype: AOJ D07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

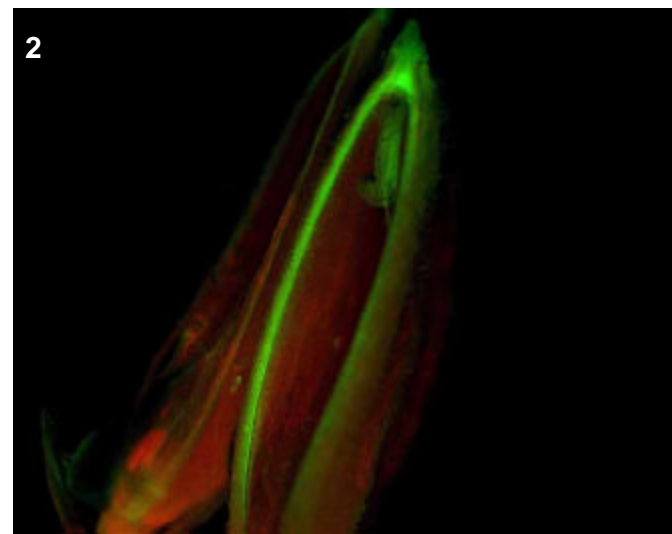
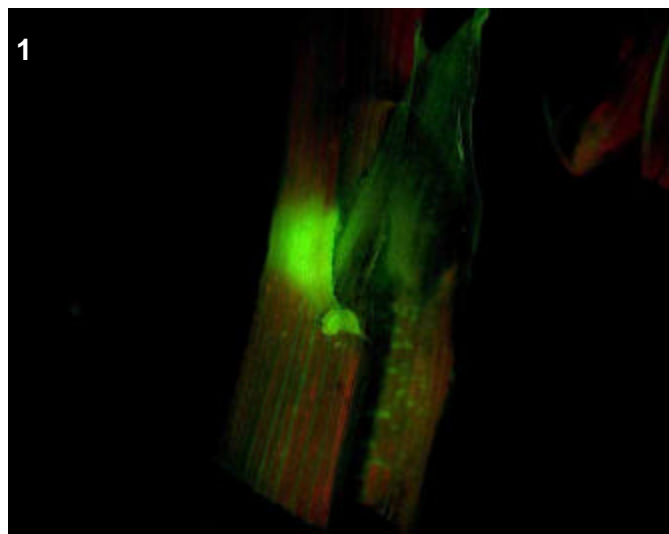
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Vascular expression in collar and sheath vascular, as well as vascular of flower

T1 seed comments

T1 seedling comments

Genotype: AOJ E03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

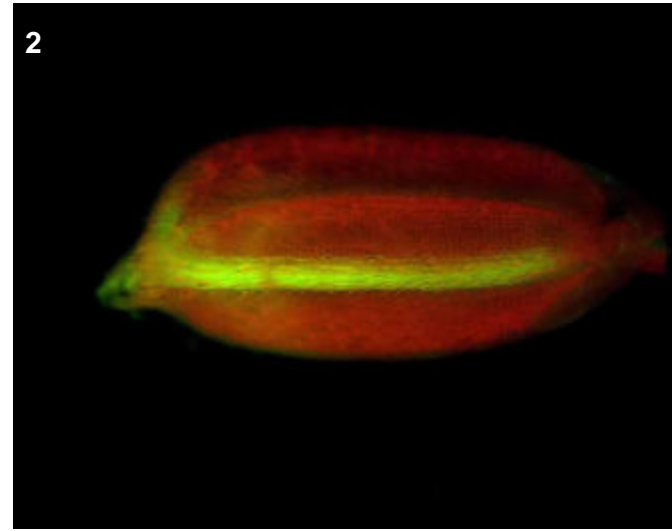
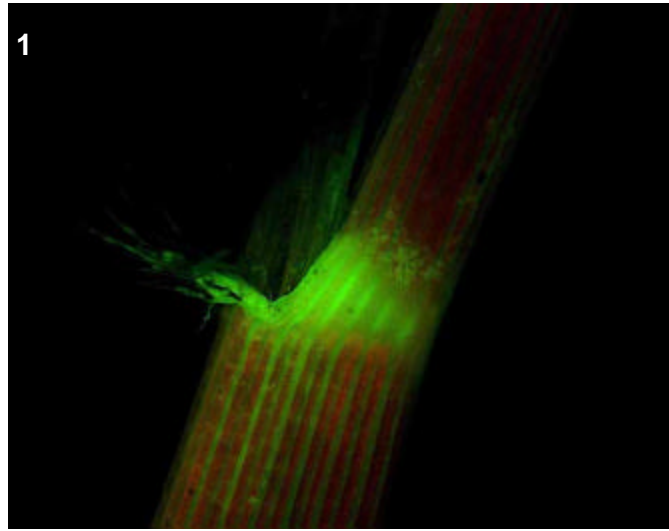
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in collar and surrounding vascular of sheath and leaf, and in vascular of flower

T1 seed comments

T1 seedling comments

Genotype: AOJ E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

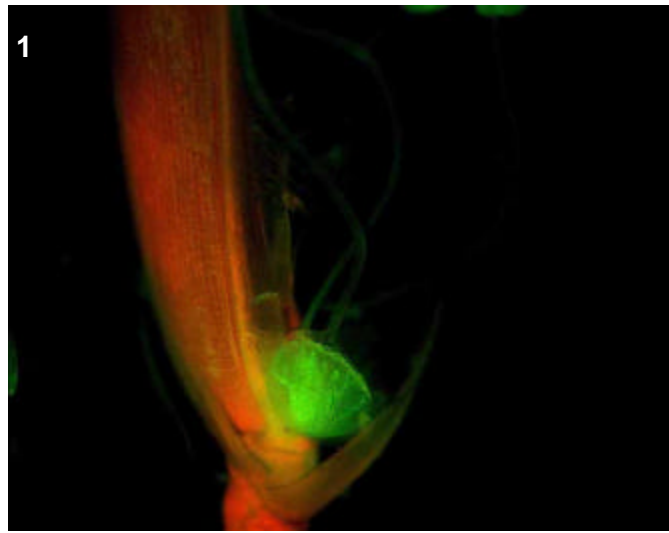
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

lodicule specific line

T1 seed comments

T1 seedling comments

Genotype: AOJ F05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

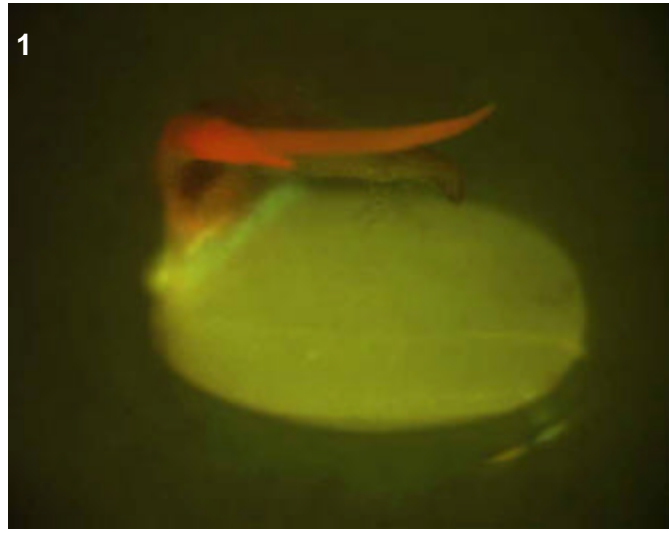
- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 0



T0 comments

T1 seed comments

T1 seedling comments

Could be expression in the scutellum region of seed.

Genotype: AOJ F08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

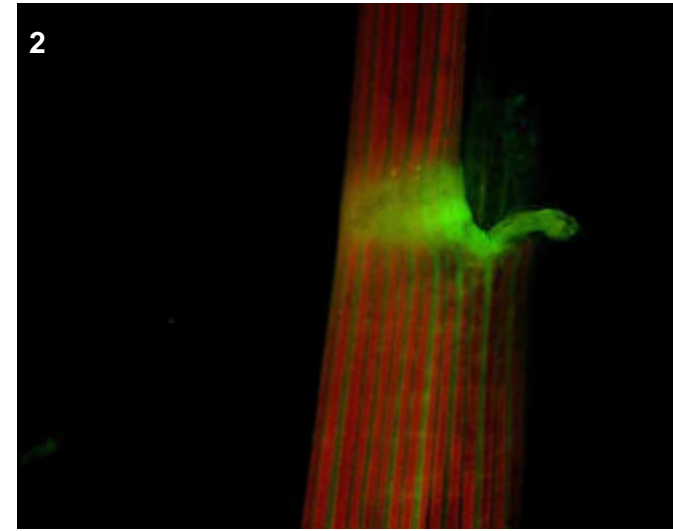
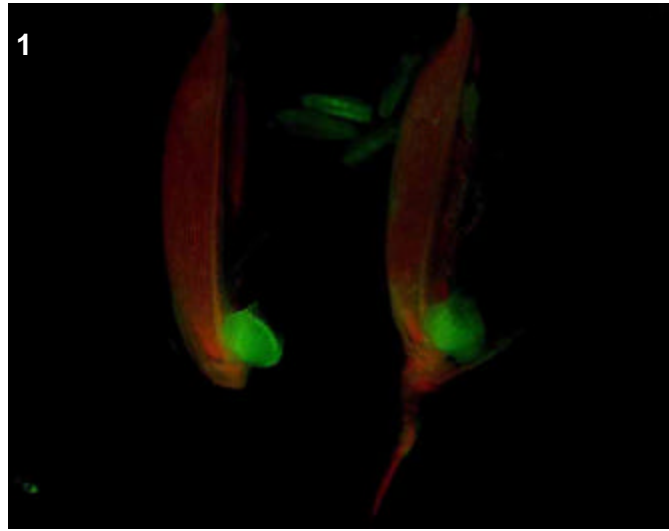
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in collar and sheath vascular, and lodicules of flowers

T1 seed comments

T1 seedling comments

Genotype: AOK A03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

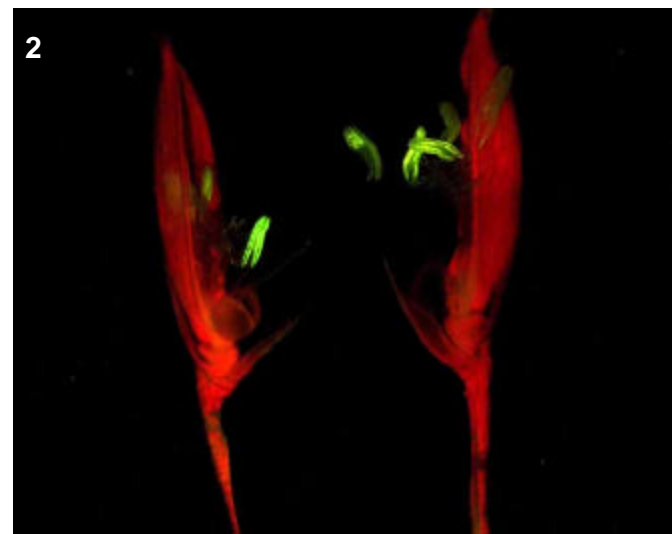
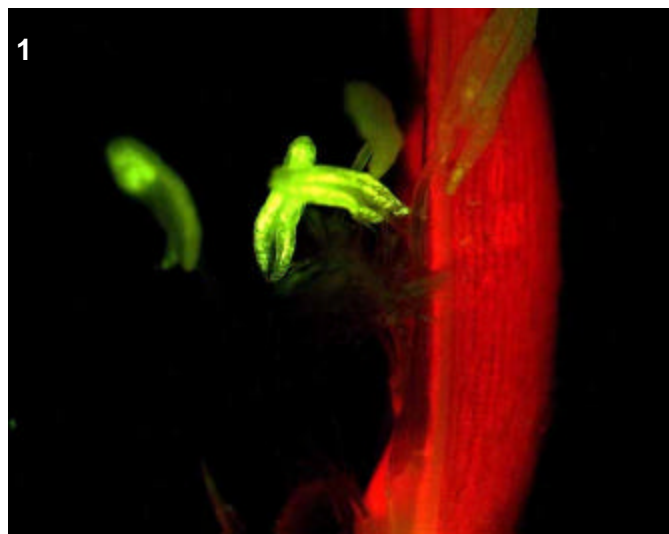
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong, consistent expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOK A10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

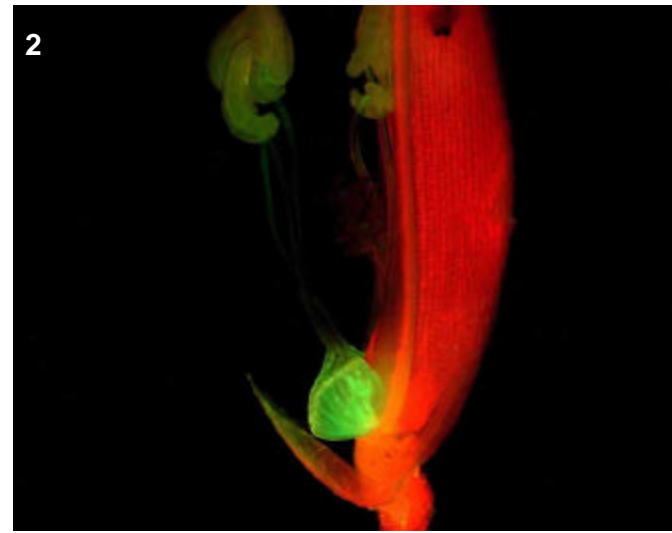
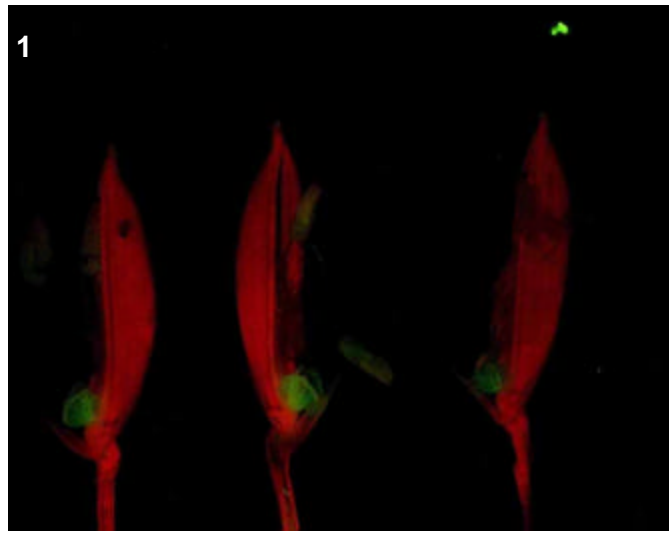
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Moderate but consistent expression in the lodicules

T1 seed comments

T1 seedling comments

Genotype: AOK A11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

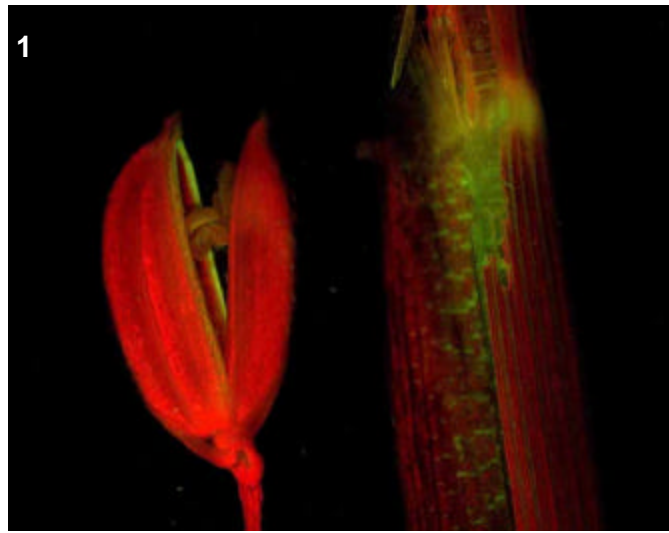
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in collar and surrounding vascular, as well as strong expression in floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOK B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE

- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE

- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE

- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- S. vascular

- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

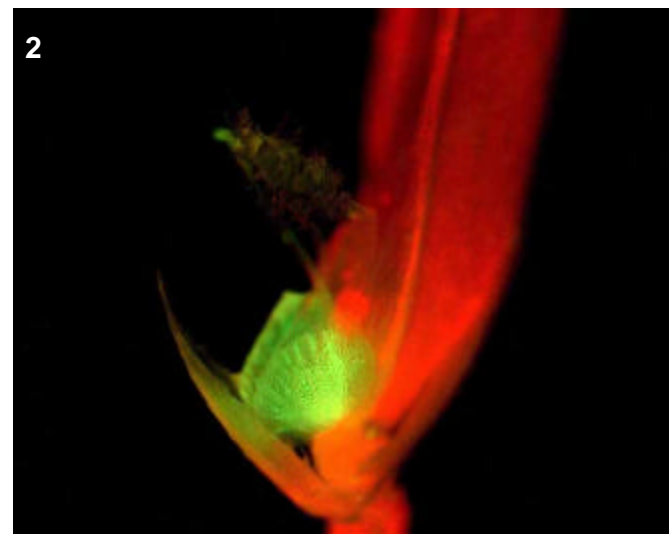
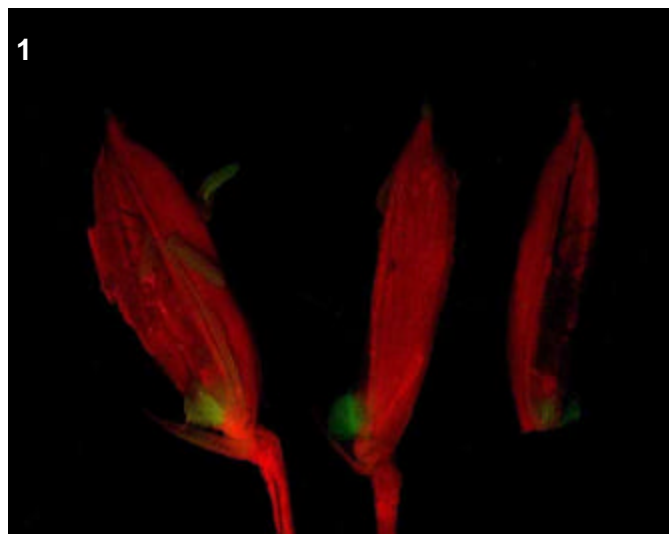
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate yet consistent expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOK C02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

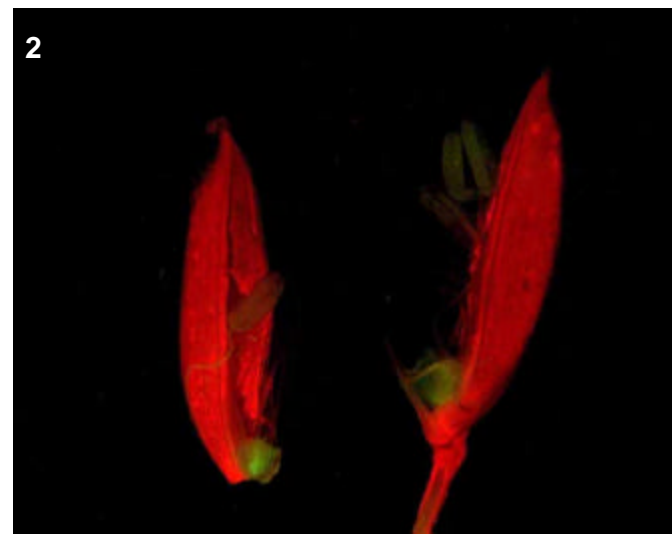
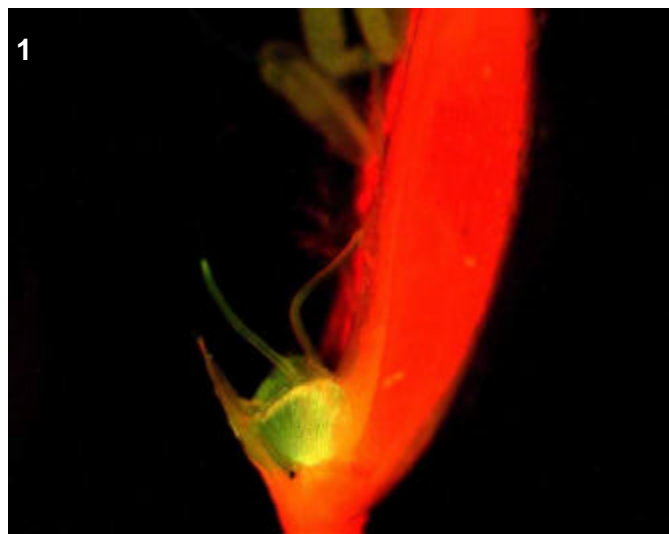
- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

YES, 1 plant

Confocal?

Number T2 seed produced: 21



T0 comments

Moderate, consistent expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOK D01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

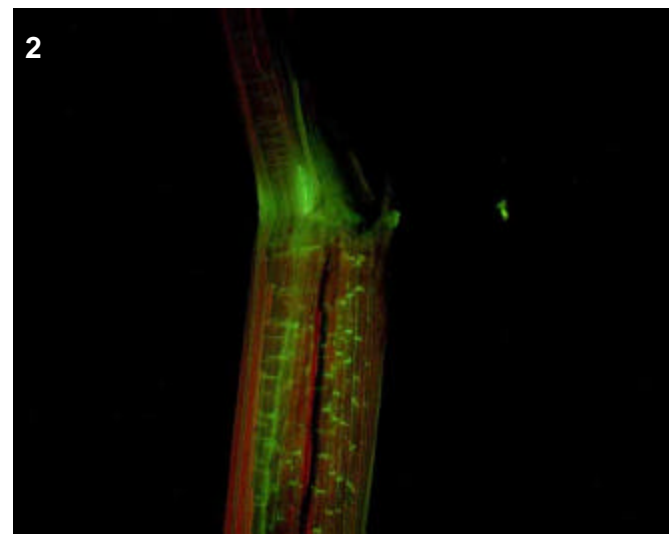
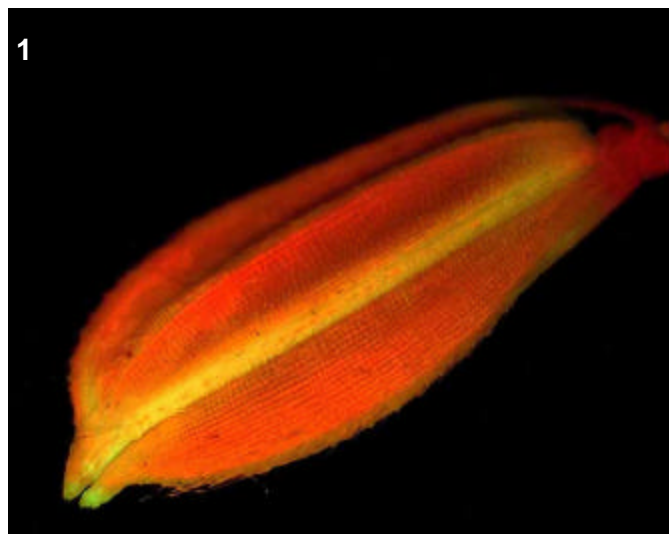
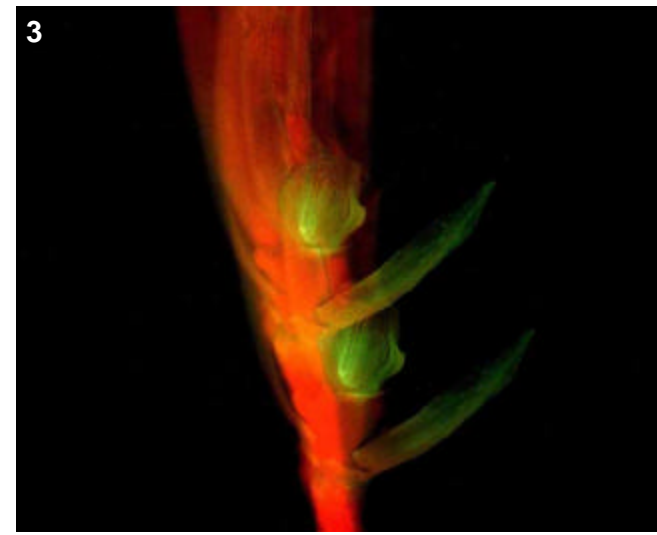
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in collar and surrounding vascular, as well as in floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOK D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid with brightly glowing anthers

T1 seed comments

T1 seedling comments

Genotype: AOK F02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

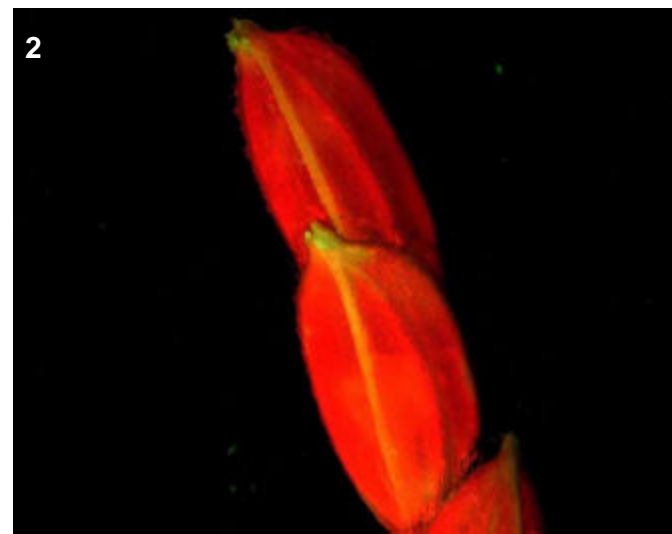
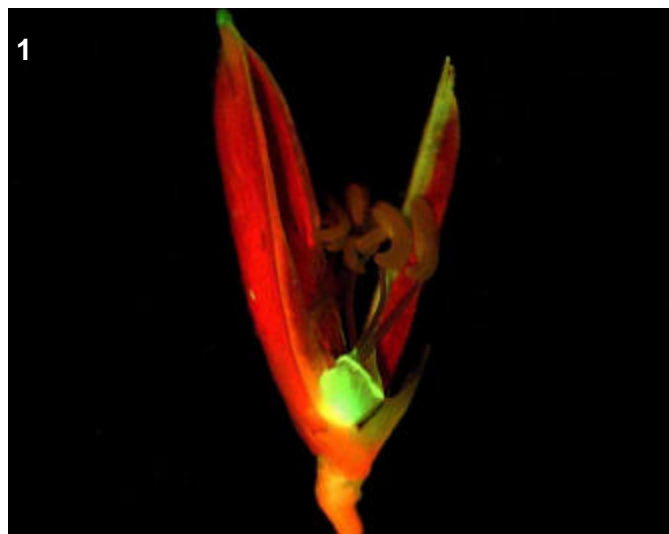
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 5



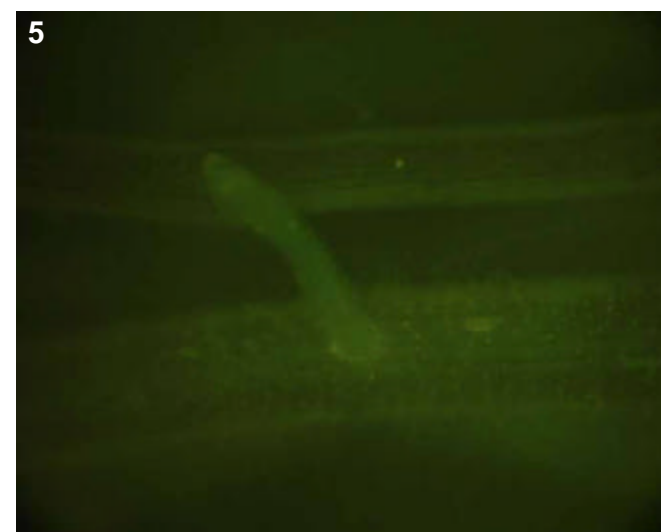
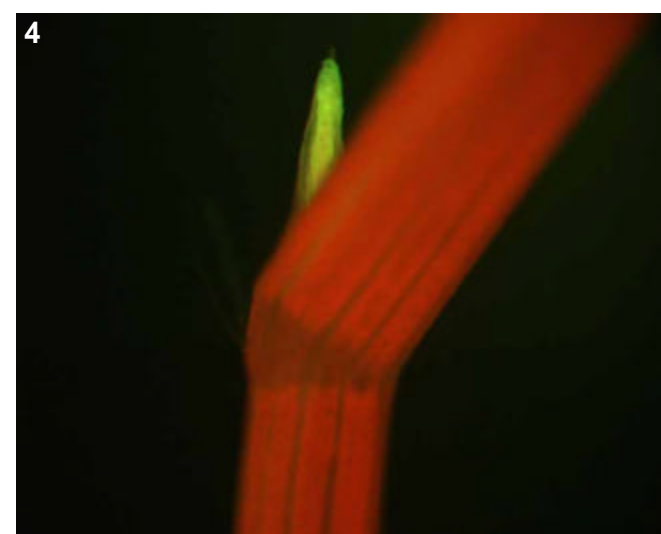
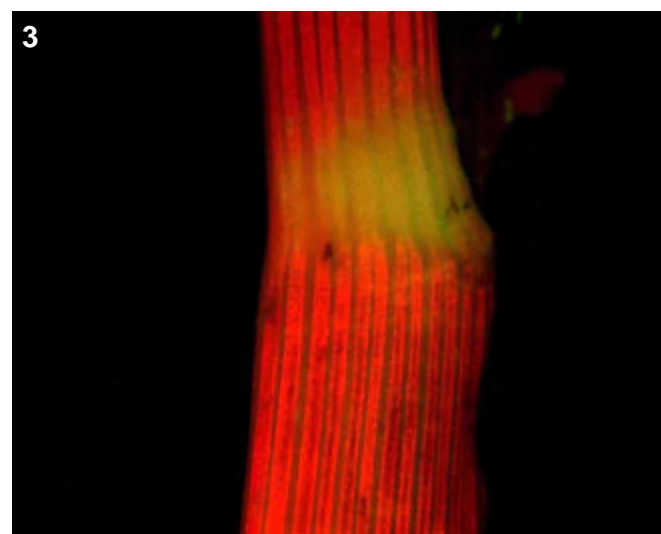
T0 comments

Fairly weak expression in collar, strong expression in floral vascular and in lodicules

T1 seed comments

T1 seedling comments

Looks like just tips of leaves of seedlings as well as very faint root vascular



Genotype: AOK F08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

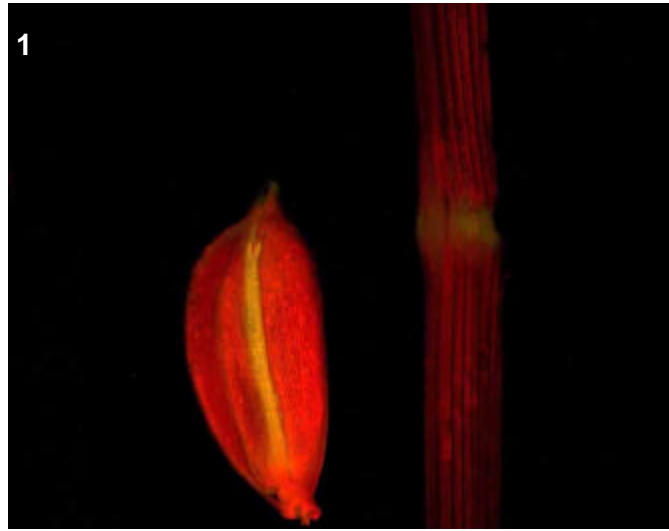
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Weak expression in collar with strong expression in floral vascular

T1 seed comments

T1 seedling comments

Genotype: AOK F10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

Moderate expression in anther and lodicules, perhaps very faint expression in collar (pics lost?)

T1 seed comments

T1 seedling comments

Genotype: AOK H02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

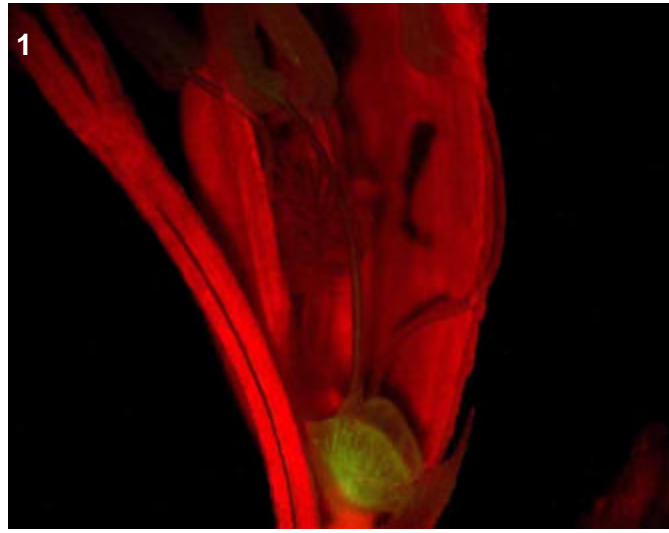
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Weak, consistent expression in lodicules

T1 seed comments

T1 seedling comments

Genotype: AOK H03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

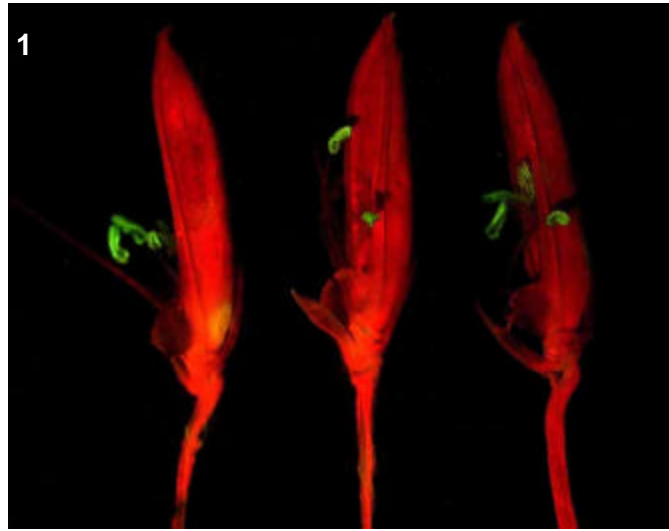
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

strong consistent expression in anthers

T1 seed comments

T1 seedling comments

Genotype: AOK H08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

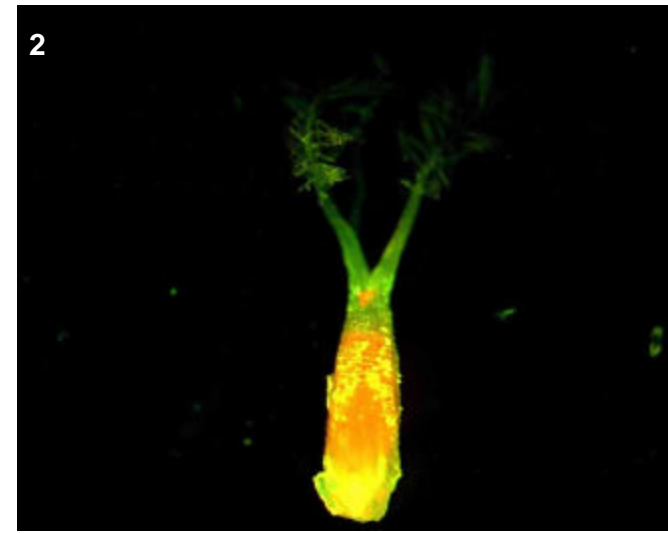
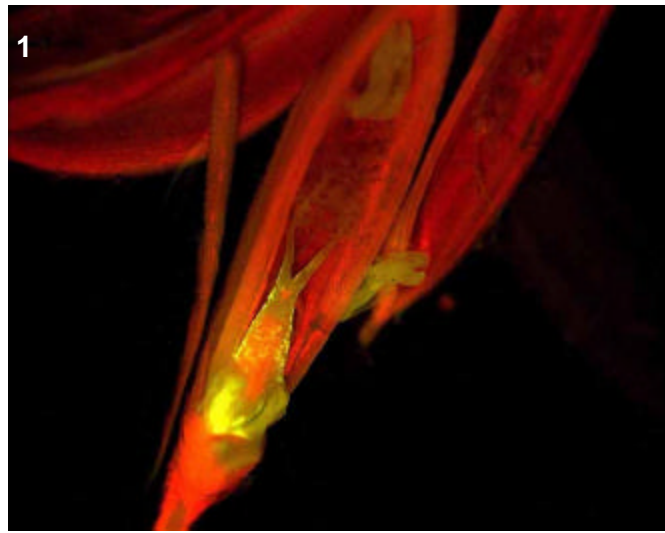
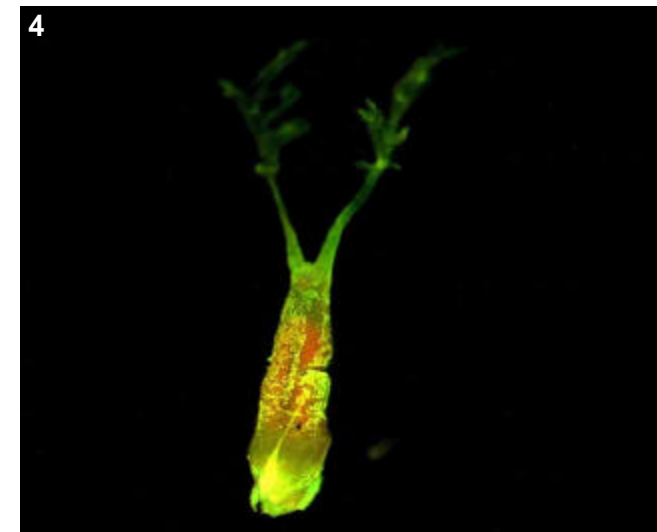
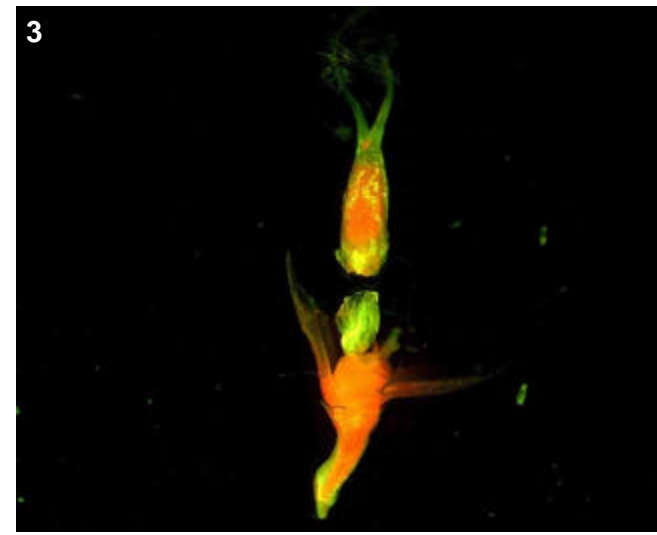
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in the carpel, looks like expression in style and base.

T1 seed comments

T1 seedling comments

Genotype: AOL C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

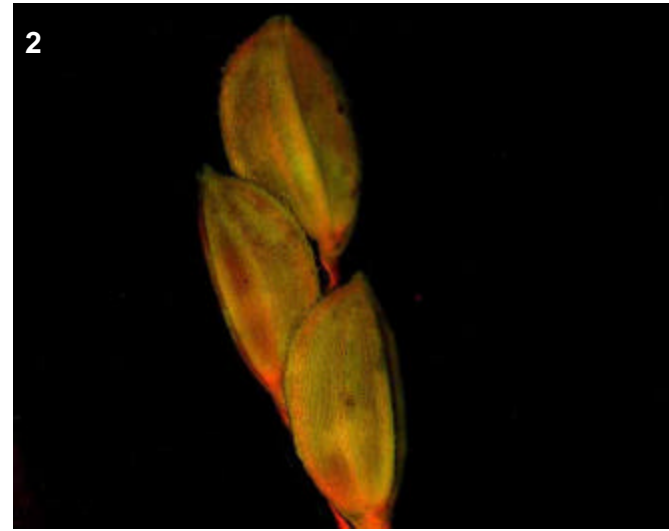
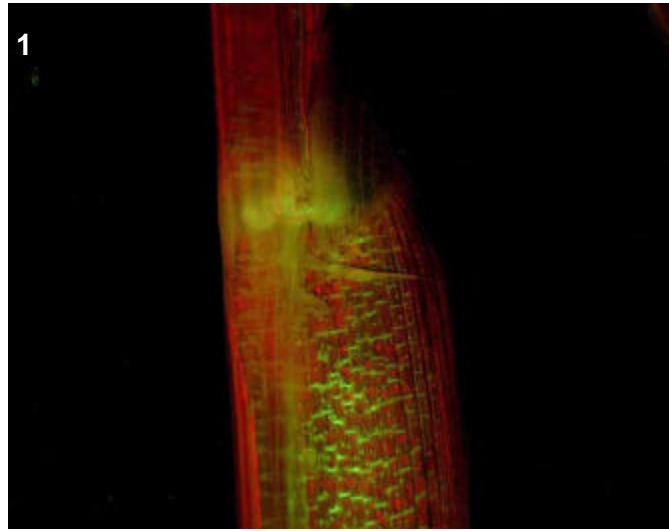
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in the collar and surrounding vascular area, as well as what appears to be fairly strong expression in the floral coat and lodicules (alternatively, the floral coat could be diseased).

T1 seed comments

T1 seedling comments

Genotype: AOL E06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

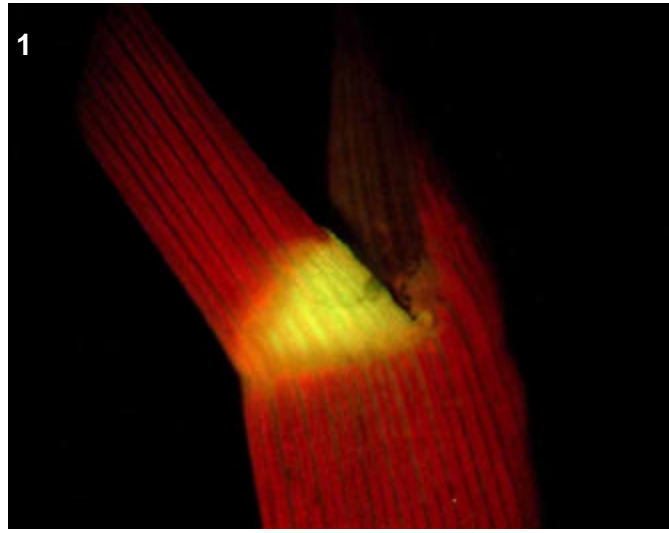
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in the collar and sheath vascular, as well as in the flower vascular (no pic taken)

T1 seed comments

T1 seedling comments

Genotype: AOL E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

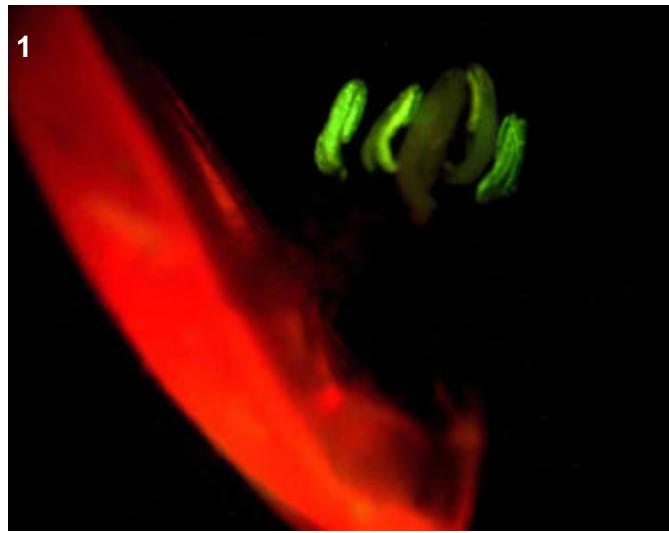
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Anther specific line

T1 seed comments

T1 seedling comments

Genotype: AOL E12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

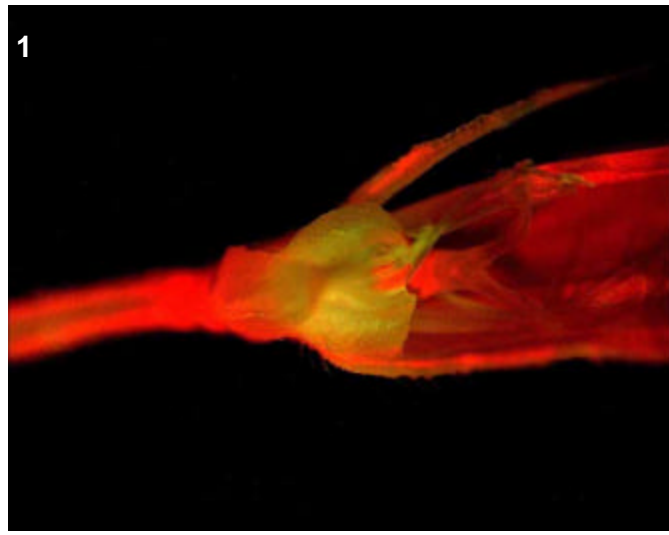
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Lodicel specific line

T1 seed comments

T1 seedling comments

Genotype: AOL G03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

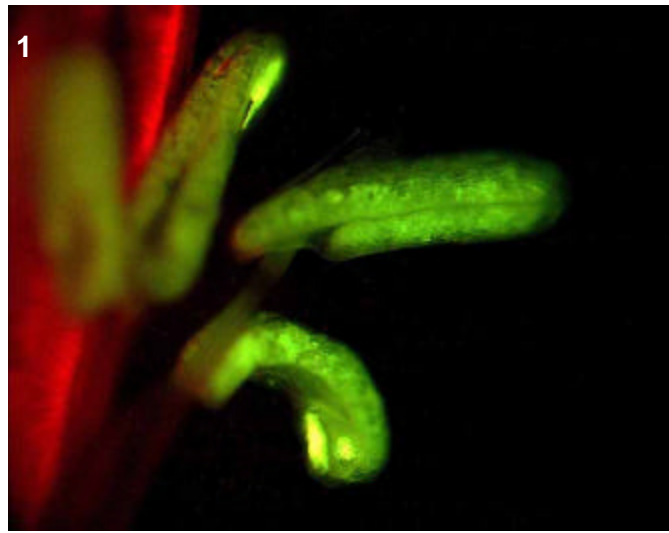
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

very small anthers with moderate GFP expression

T1 seed comments

T1 seedling comments

Genotype: AOL G05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

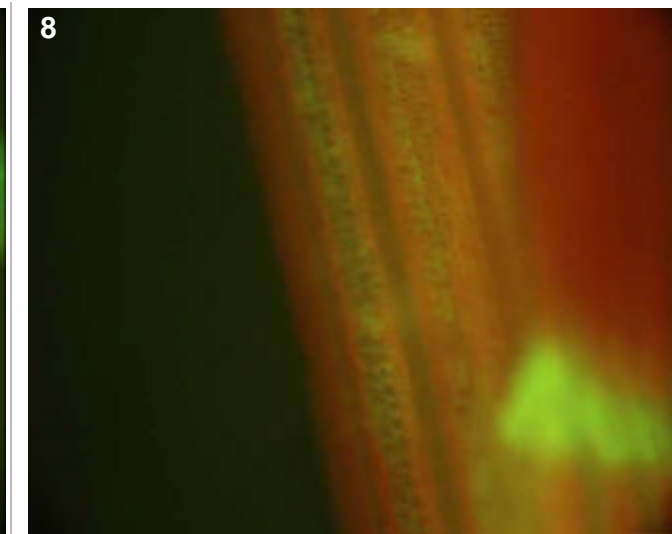
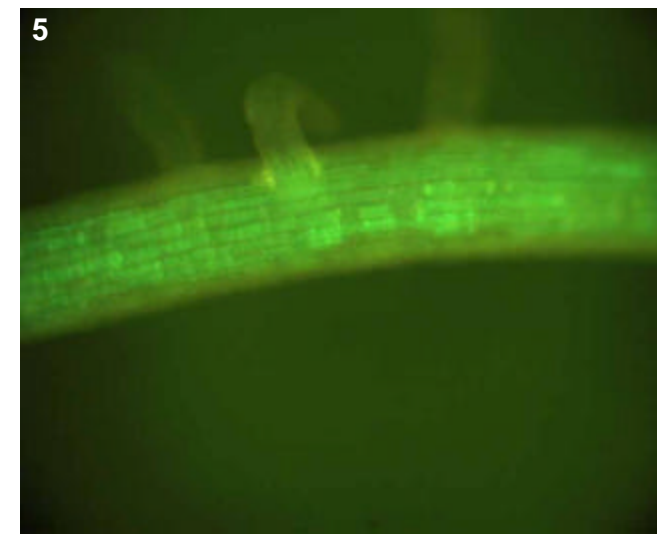
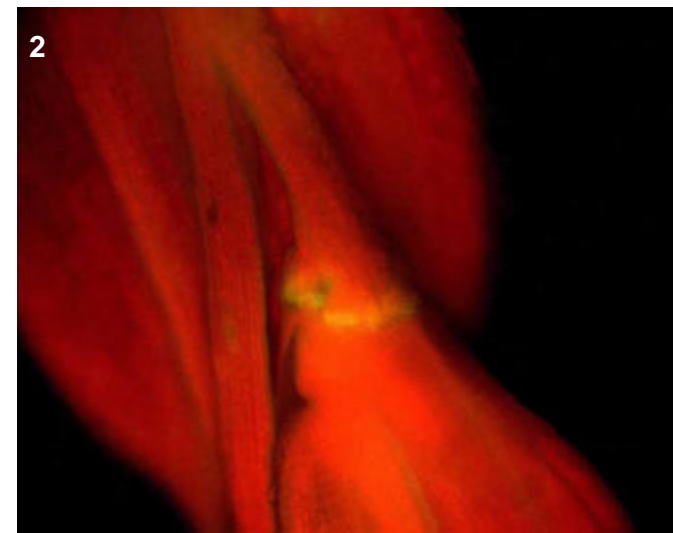
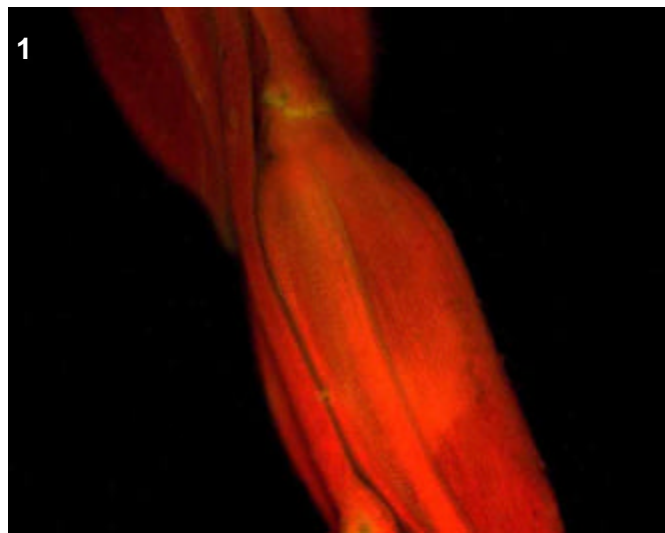
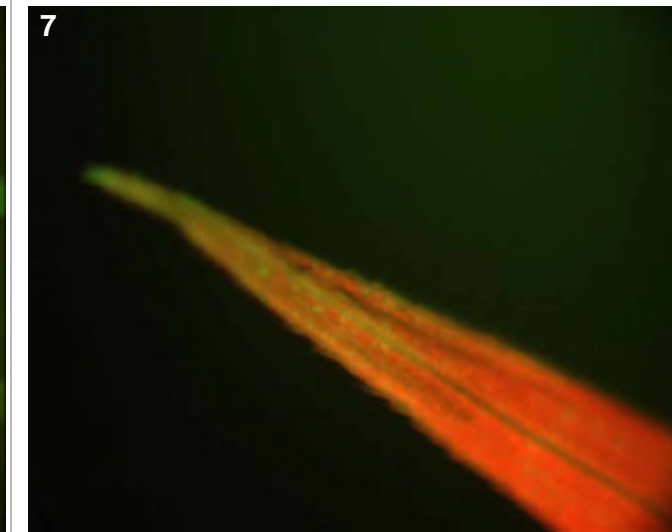
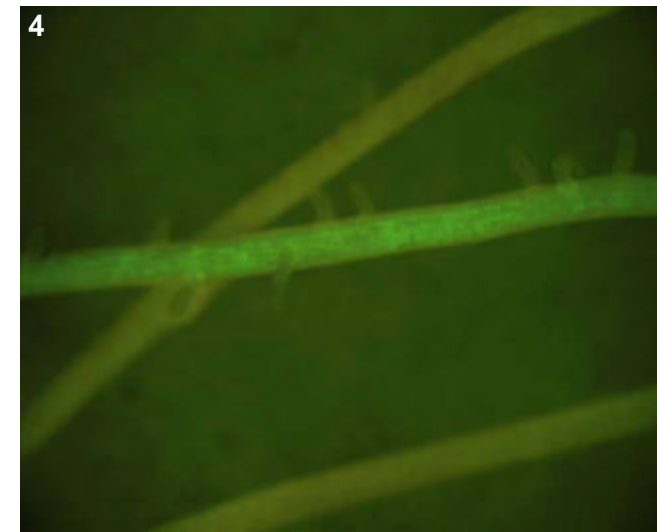
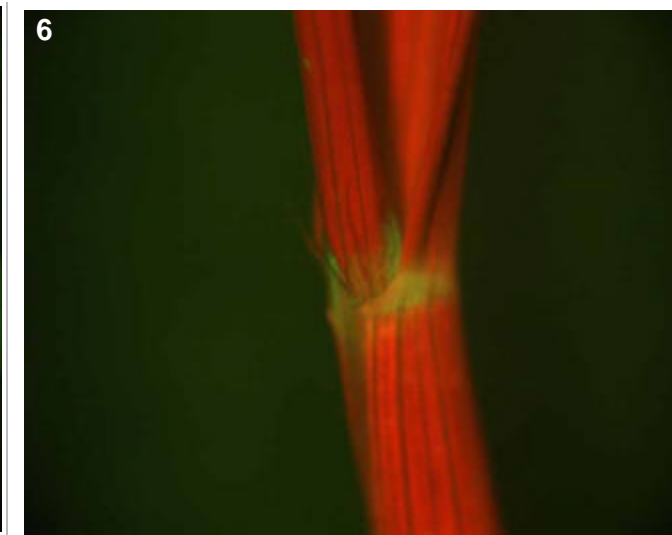
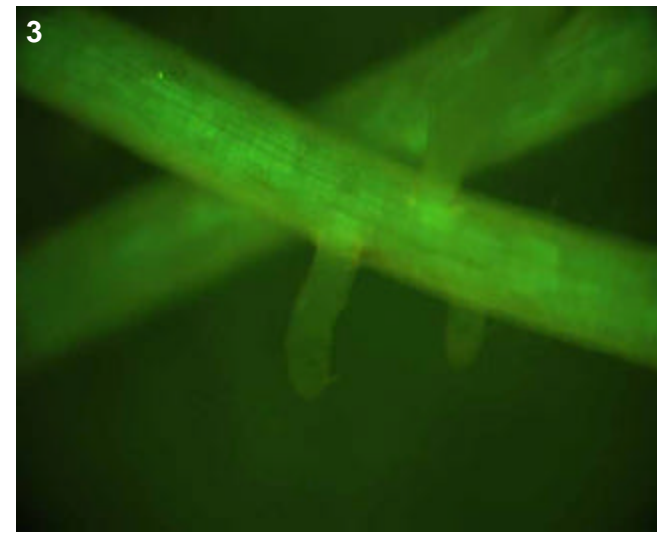
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 24



T0 comments

A small, yet bright, band of expression at the junction of the pedicel to the flower

T1 seed comments

T1 seedling comments

Interesting root expression, mostly in old portions of crown roots. Nothing in lat roots. Also bright collar, leaf tips and general in sheath mesophyll.

Genotype: AOL G12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

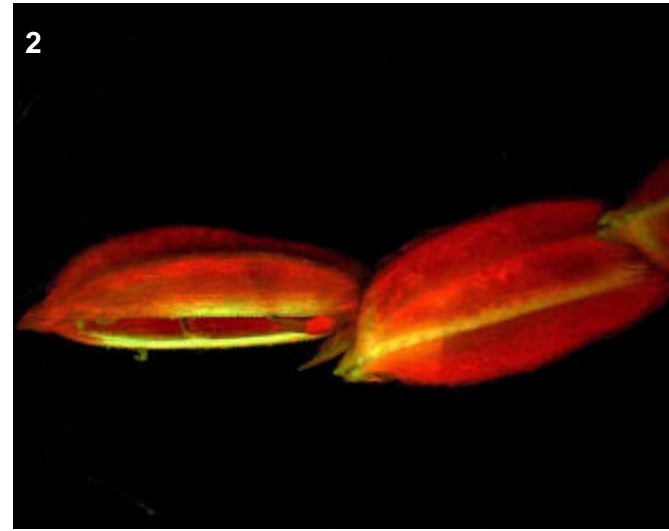
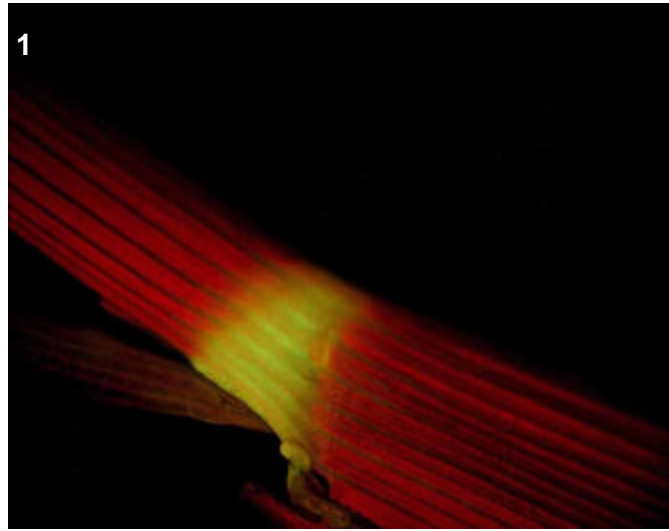
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in the collar and the floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOM C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

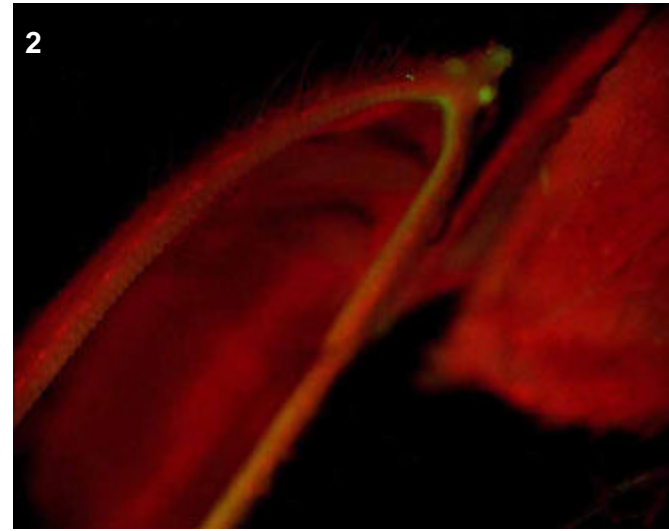
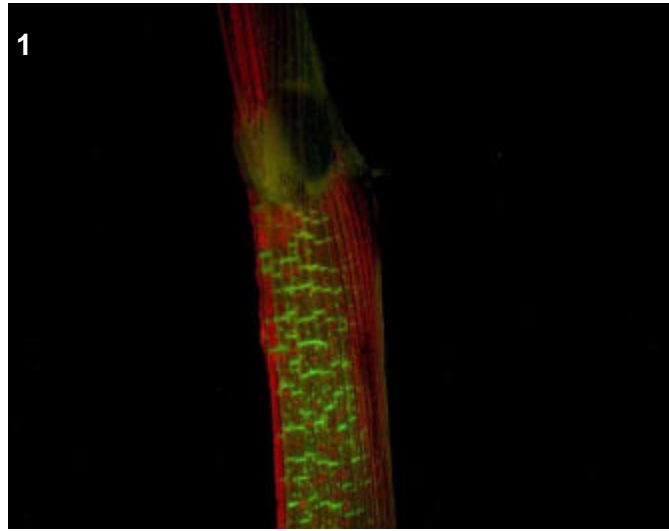
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Primarily expression in the sheath vascular tissue, as well as moderate expression in vascular of flower.

T1 seed comments

T1 seedling comments

Genotype: AOM D02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

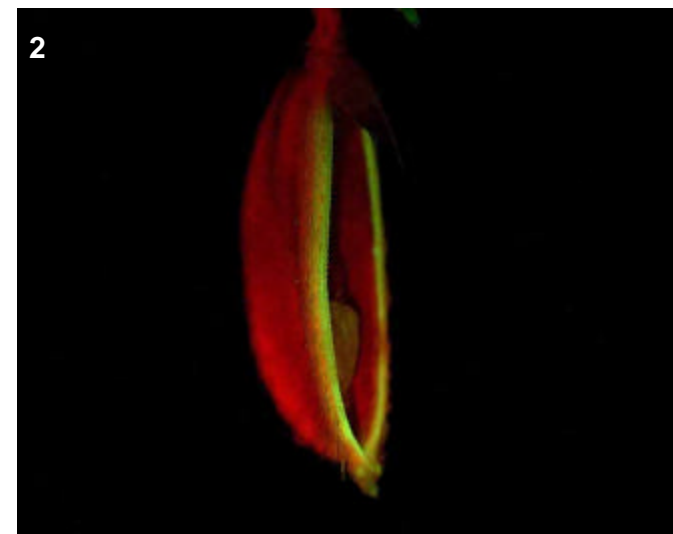
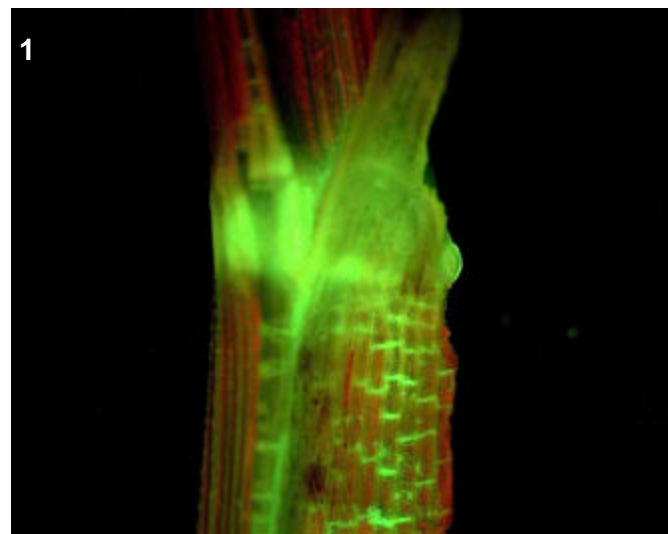
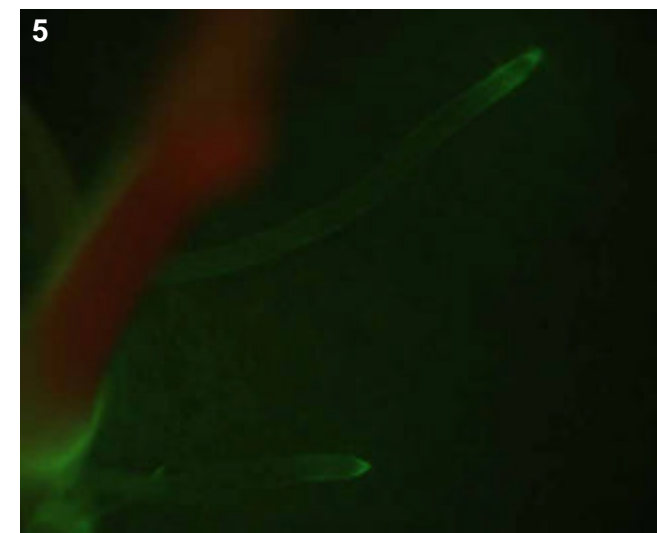
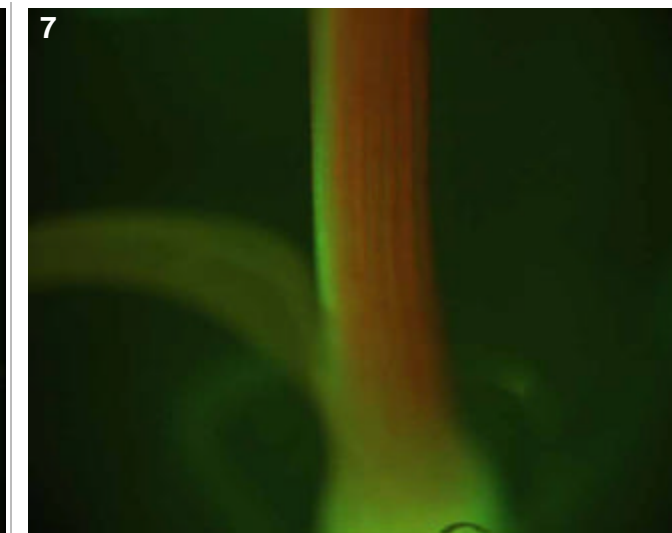
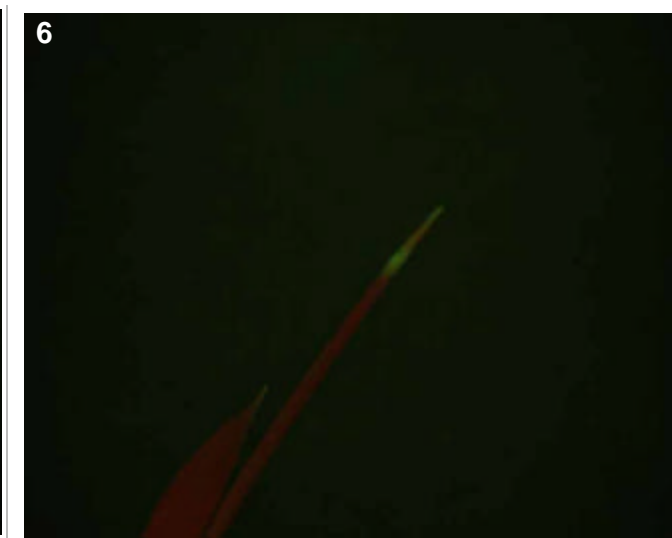
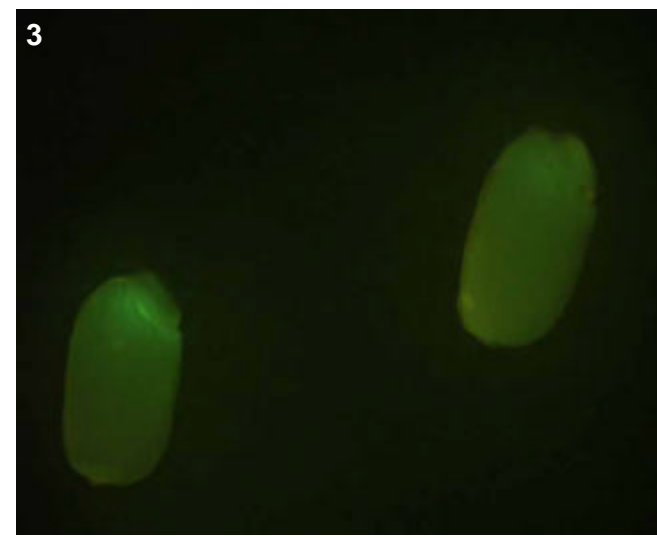
No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 13



T0 comments

A bright vascular line. Expression in collar and surrounding vascular, as well as bright in floral vascular.

T1 seed comments

2/5 seeds show bright embryo expression

T1 seedling comments

Very bright roots, especially in the cap. Also bright endosperm and activity in the leaf tips and base of the plant.

Genotype: AOM D07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

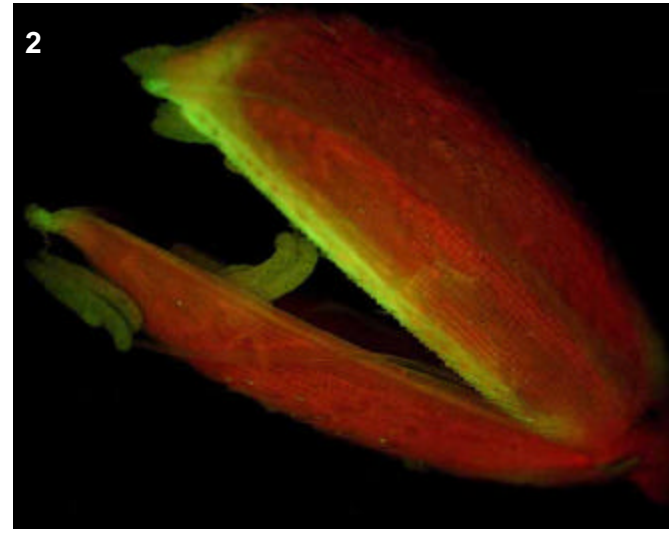
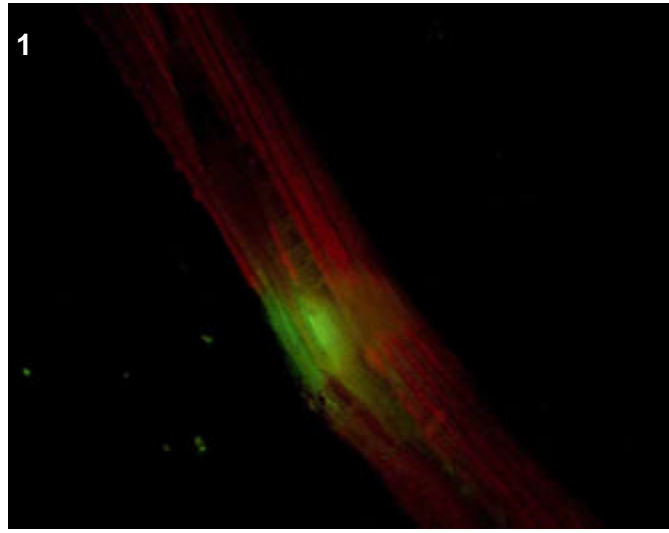
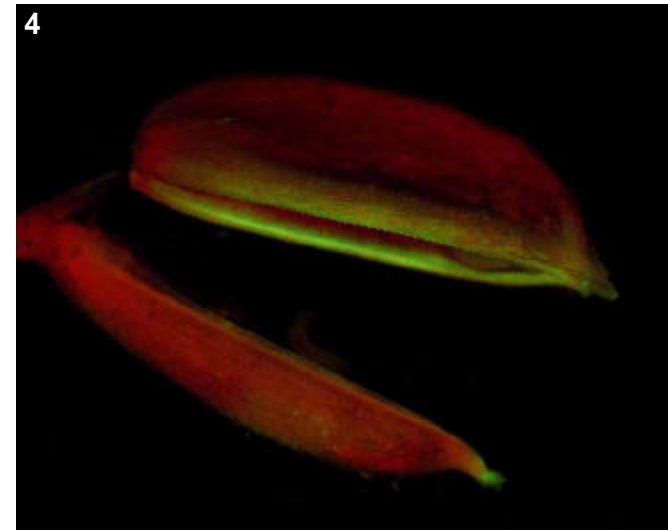
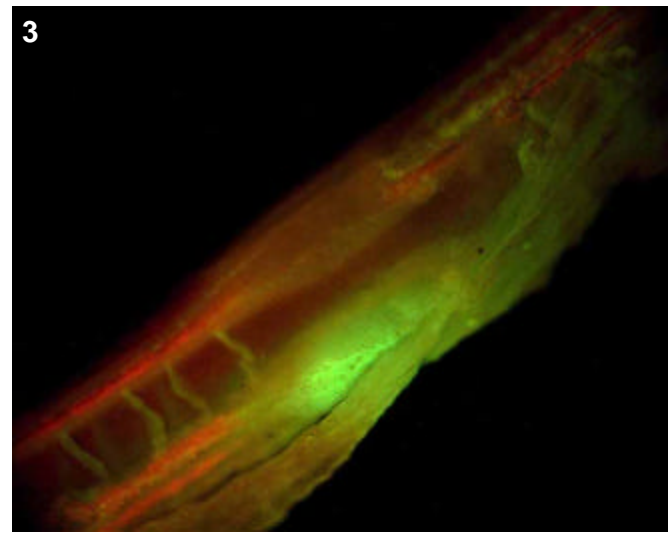
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

The expression in this line seems to be specific to where the ligule attaches to the collar. There is no expression in the surrounding vascular regions. There is also bright expression in the floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOM EO8

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid with small glowing anthers, no pic taken

T1 seed comments

T1 seedling comments

Genotype: AOM F02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

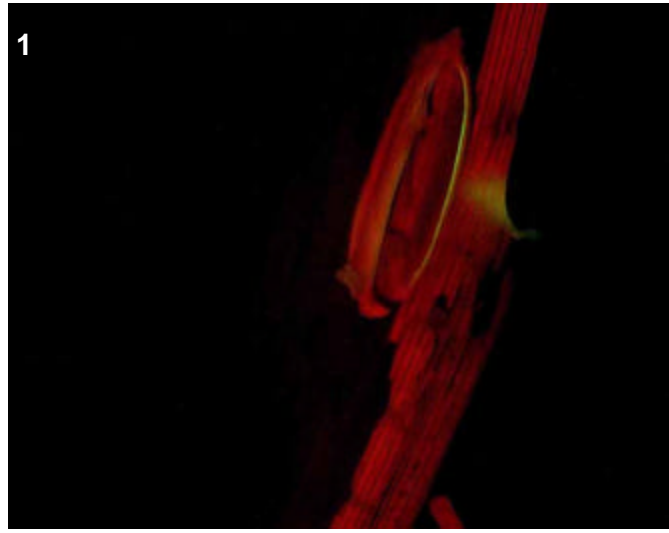
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Poor tissue to examine, but appears to be a moderate vascular line. Expression detected in the collar and in the floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOM G03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

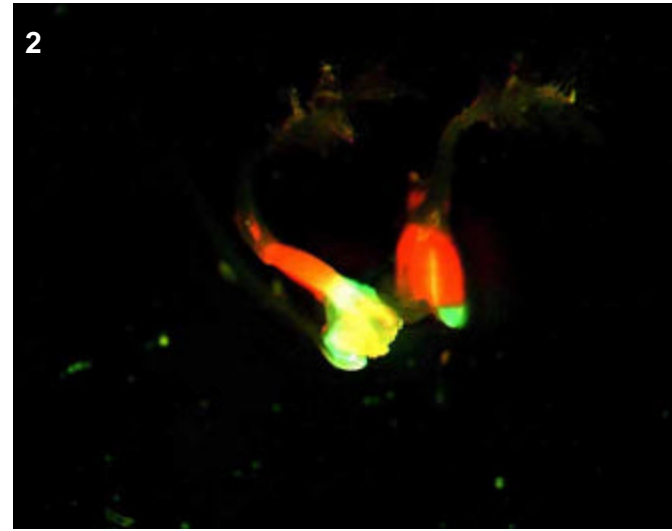
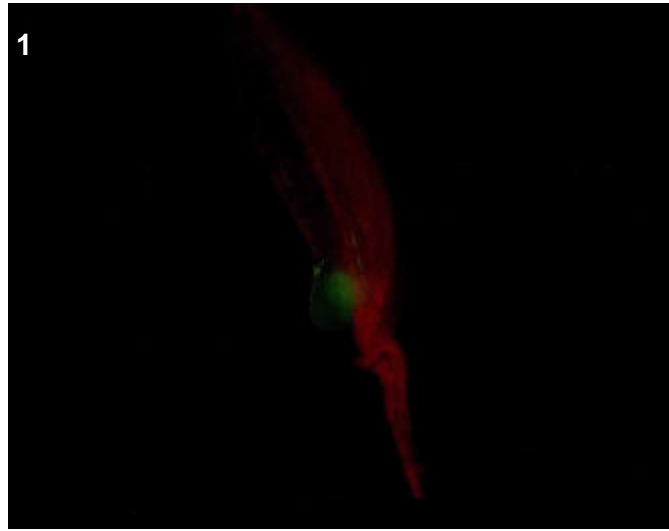
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression primarily in the carpel base and lodicules, also some in floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOM G07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 0



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AOM H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

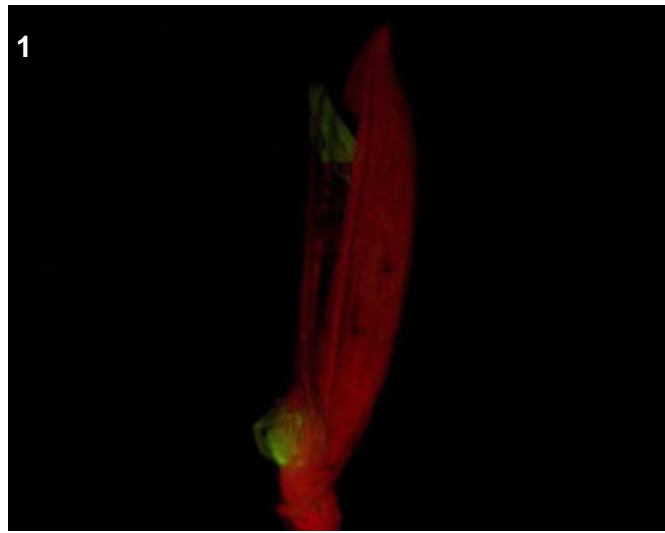
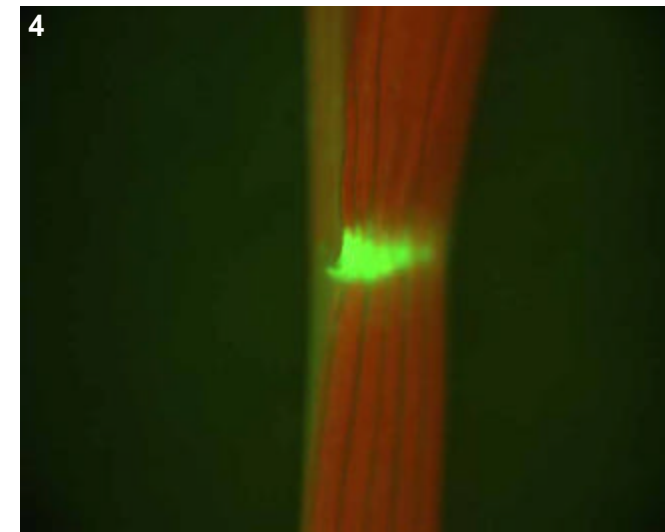
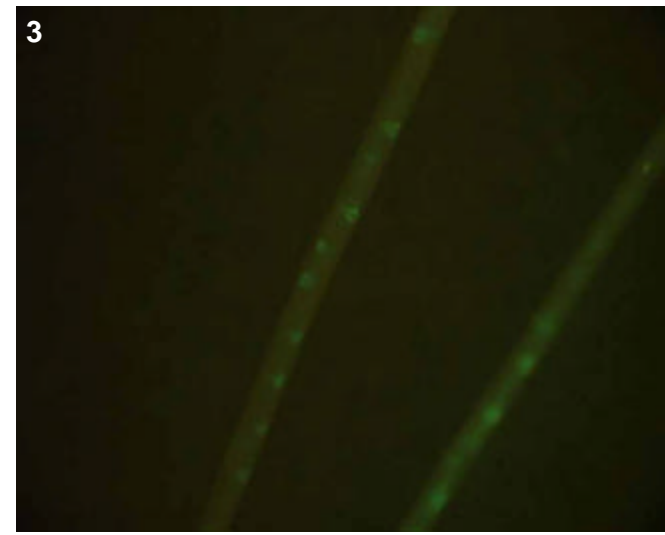
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 118



T0 comments

Moderate expression in anther and lodicules, perhaps very faint expression in sheath (is this pic in the right place?).

T1 seed comments

T1 seedling comments

Genotype: AON A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- Again, no expression in adult plants.

T0 pattern verified plus:

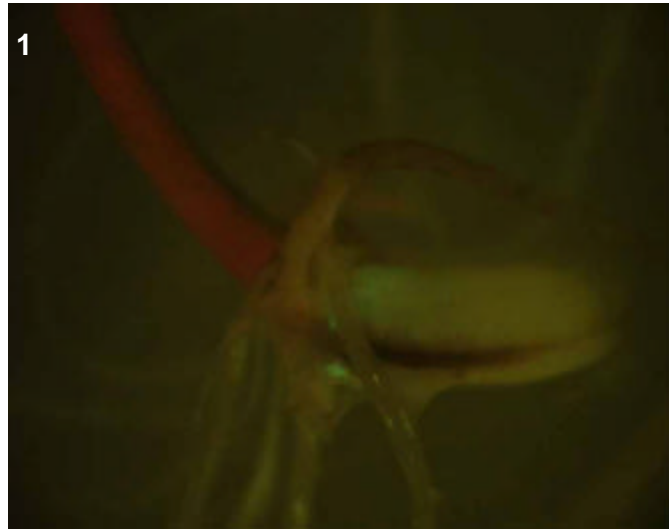
New pattern:

No GFP detected

T1 in greenhouse?
YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 261



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AON A02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

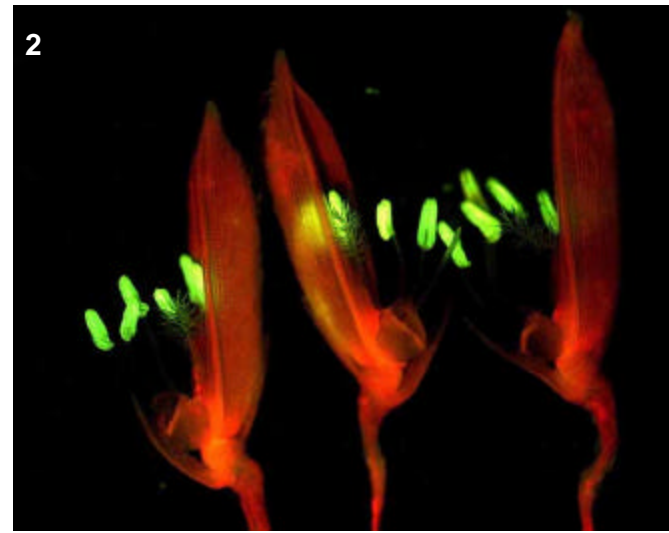
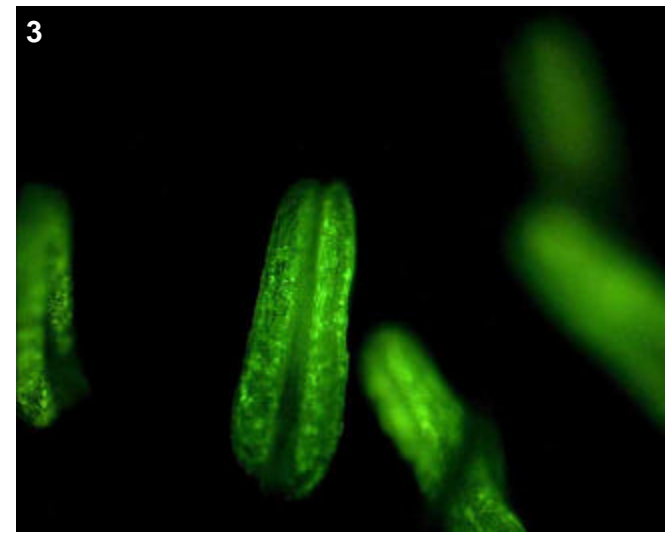
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Extremely bright expression in the anthers of all 5 flowers examined. Because so easily visible through the unopened flower, most likely a pollen-tagged line. Unfortunately, the recorded name is incomplete, must find out!

T1 seed comments

T1 seedling comments

Genotype: AON A06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

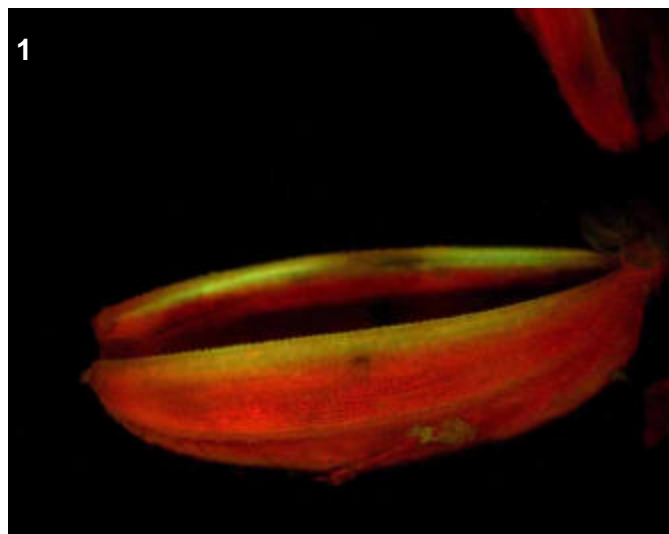
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Most expression in floral vascular, perhaps weak expression in anthers

T1 seed comments

T1 seedling comments

Genotype: AON B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

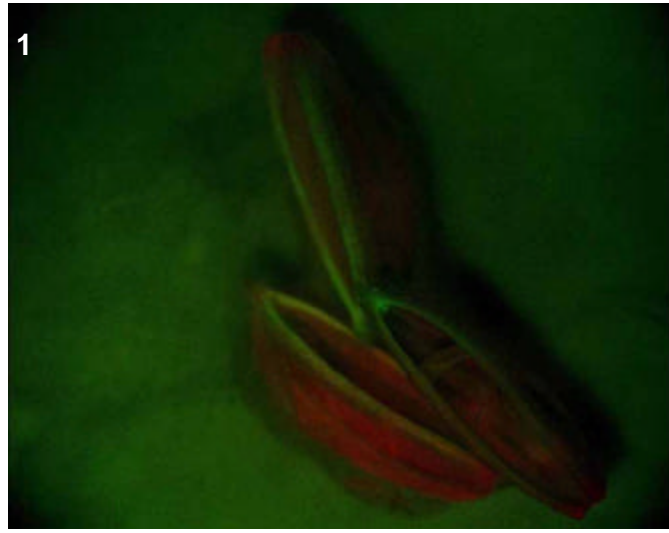
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Fluorescence in floral vascular

T1 seed comments

T1 seedling comments

Genotype: AON C09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

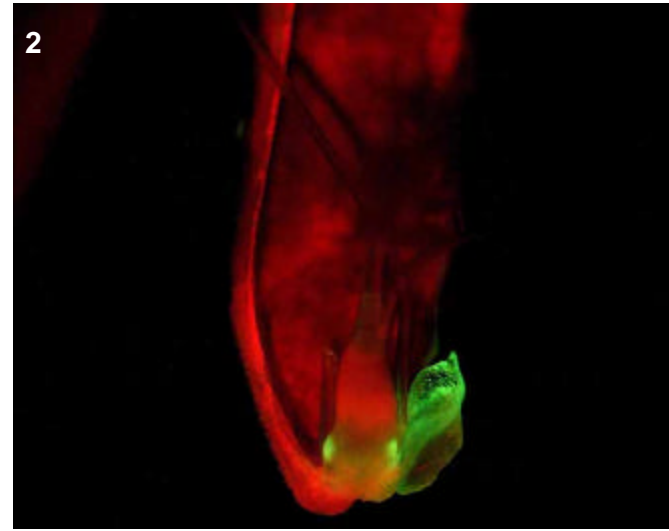
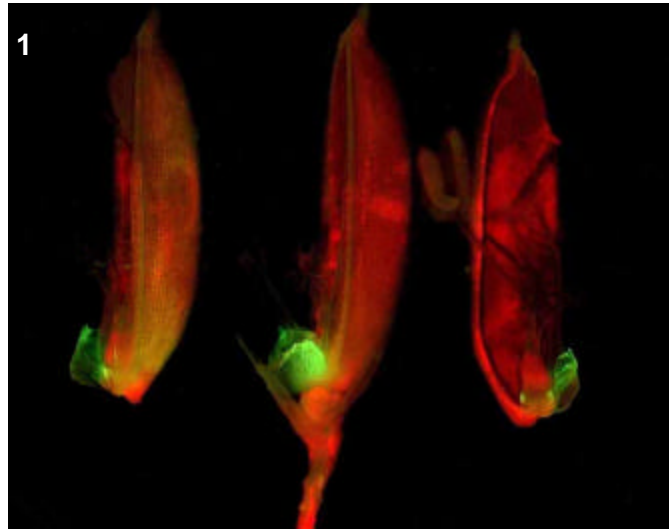
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in the lodicules

T1 seed comments

T1 seedling comments

Genotype: AON E06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

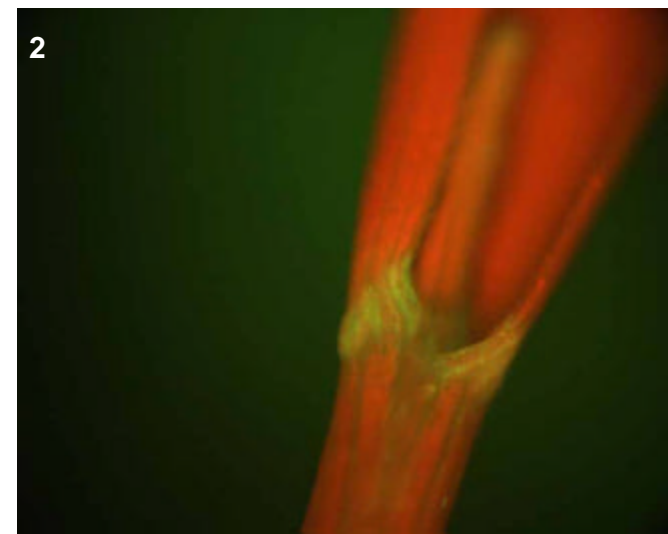
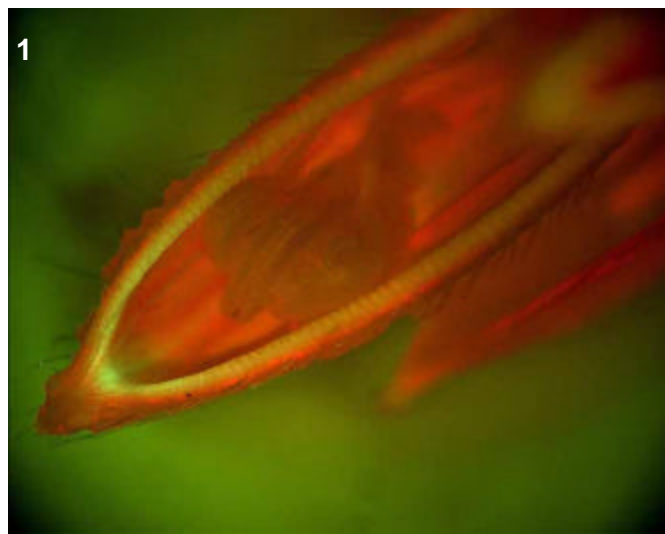
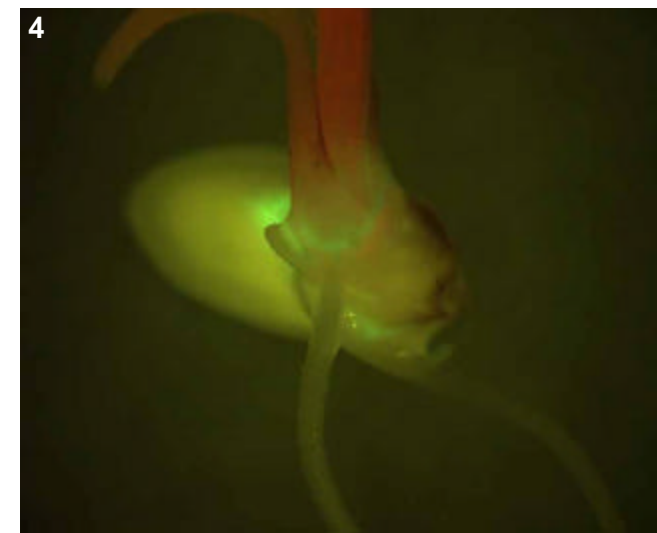
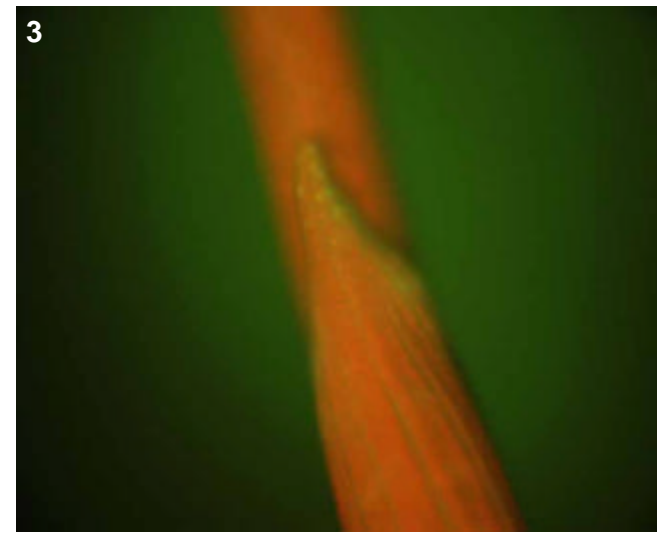
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 172



T0 comments

Strong floral vascular expression, especially at tip

T1 seed comments

T1 seedling comments

Expression appears specific to shoot.

Genotype: AON G02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

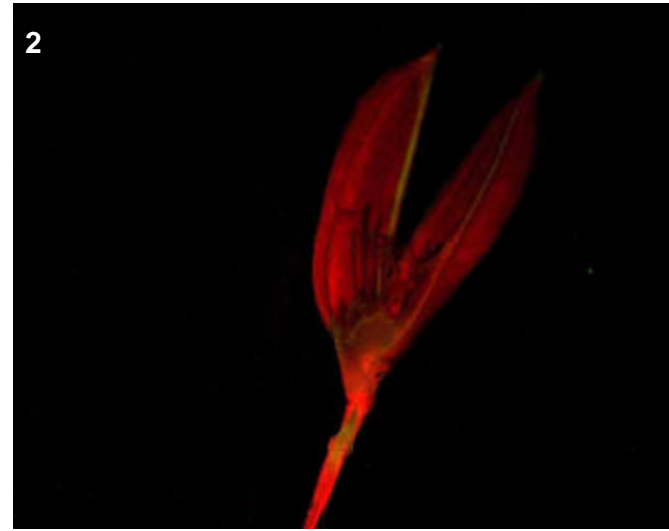
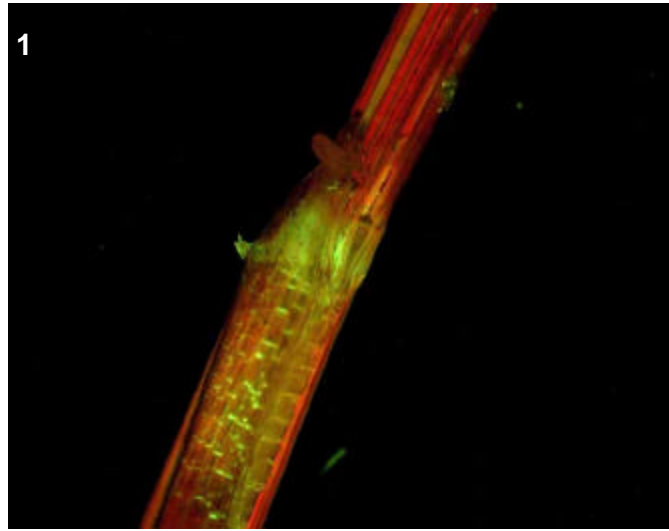
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in collar, but notice how only main vascular tissue leading into leaf is glowing. Also some vascular expression in flower and in pedicel.

T1 seed comments

T1 seedling comments

Genotype: AON H08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

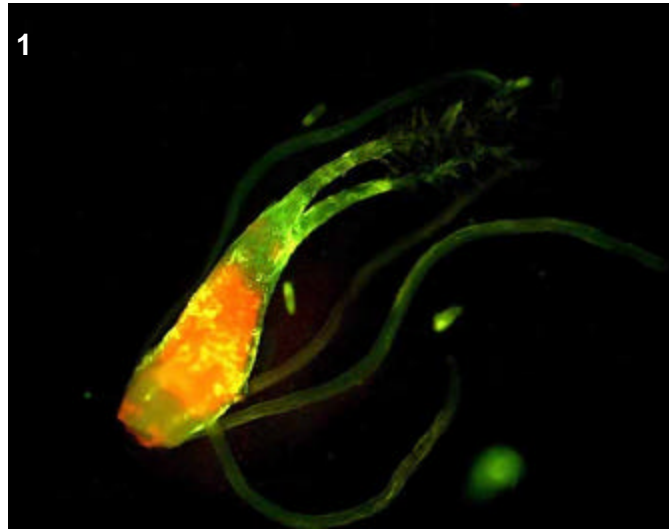
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

weak expression in stamens, the uppermost of three flowers showed strong GFP in the style and ovary of the carpel. The lower two flowers did not have any carpel expression, however.

T1 seed comments

T1 seedling comments

Genotype: AON H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

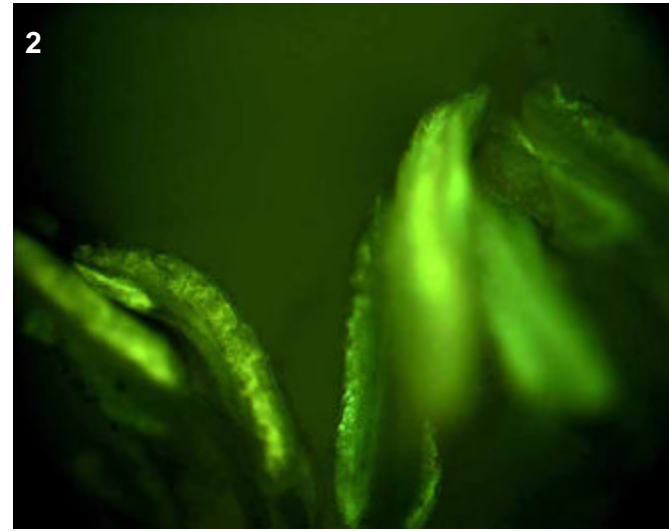
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in the anthers of both flowers

T1 seed comments

T1 seedling comments

Genotype: AON H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

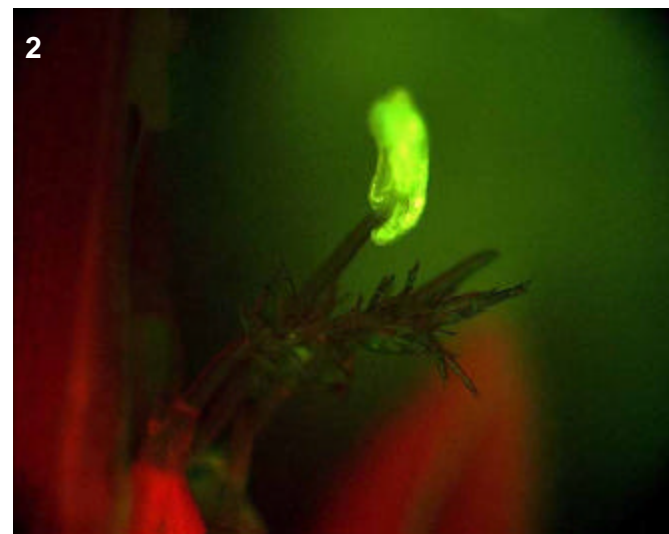
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Shows GFP in many parts of the flower: anther, vascular tissue, and lodicules

T1 seed comments

T1 seedling comments

Genotype: AOO B11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

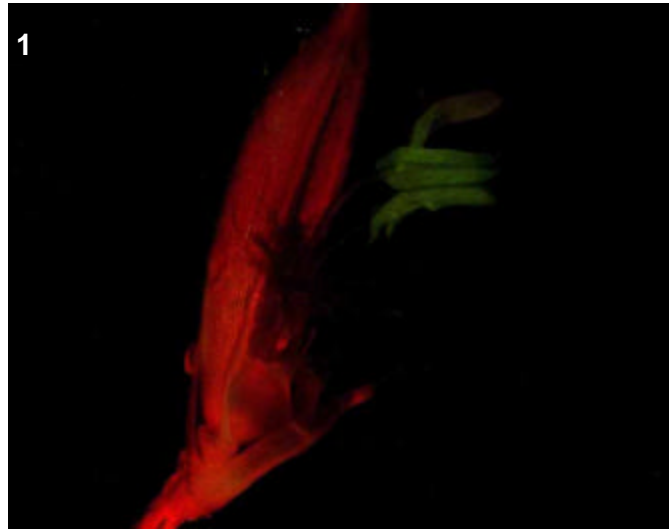
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid, with moderate GFP expression in the anthers

T1 seed comments

T1 seedling comments

Genotype: AOO C02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

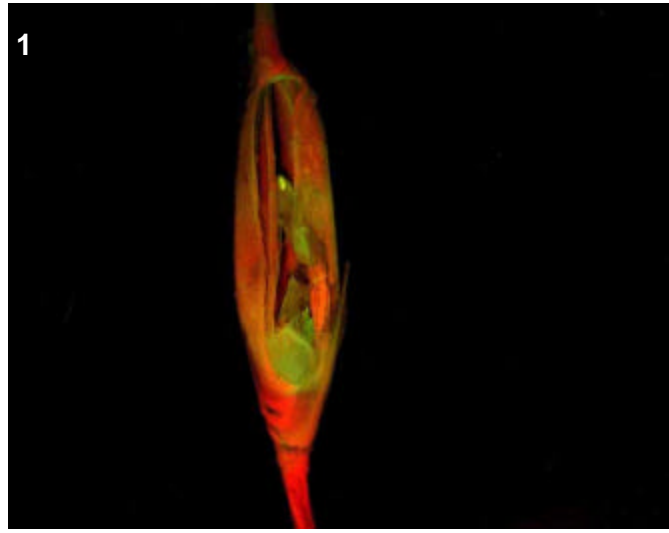
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 plants

Confocal?

Number T2 seed produced: 28



T0 comments

tetraploid, with expression in lodicules, some in anther, and floral vascular. Also some expression in sheath, but tissue too degraded to take pic.

T1 seed comments

T1 seedling comments

Genotype: AOO E12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

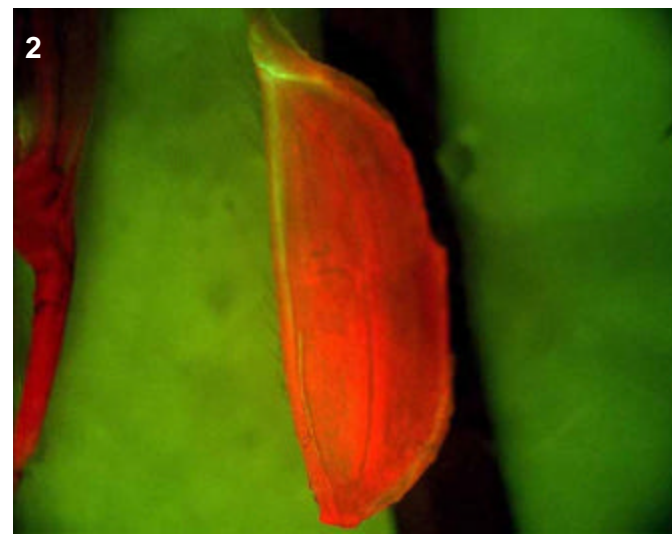
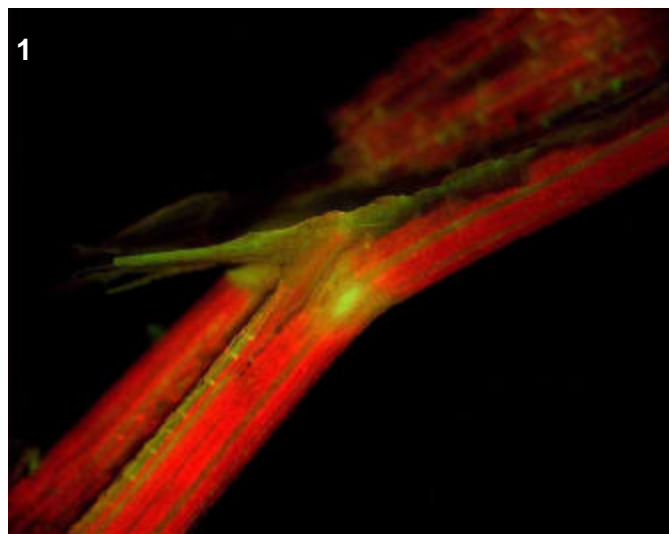
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Partial tetraploid. Expression in the collar and surrounding vascular tissue, a short bit of vascular extending into the leaf is also full of GFP. Also some floral vascular expression.

T1 seed comments

T1 seedling comments

Genotype: AOO F04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid, with small glowing anthers (no pic)

T1 seed comments

T1 seedling comments

Genotype: AOO F11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

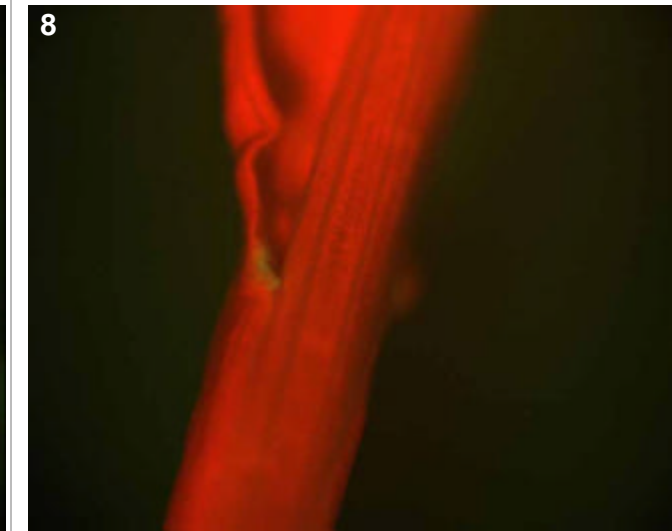
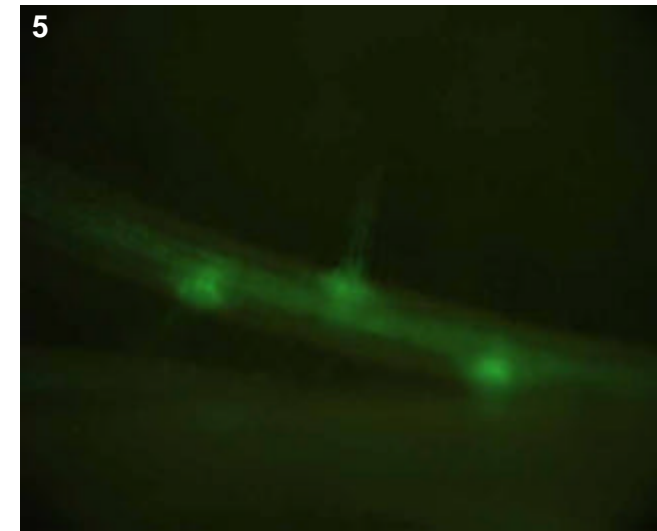
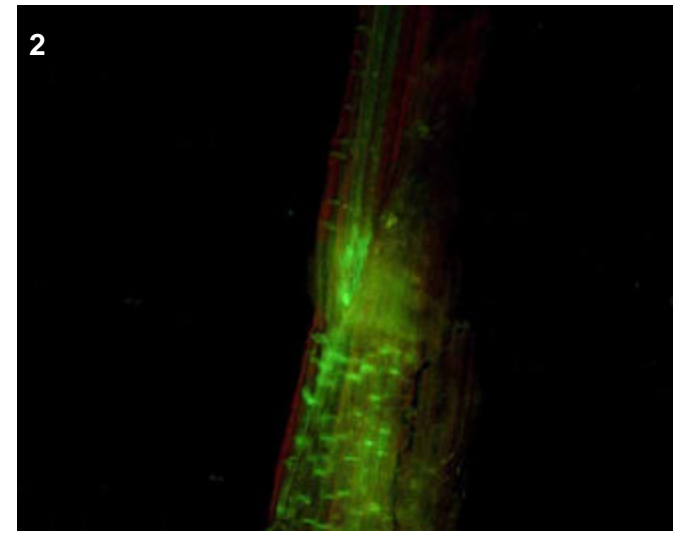
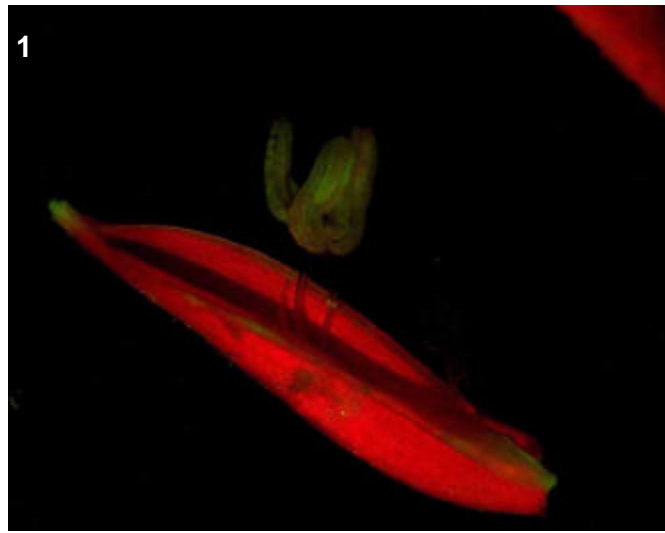
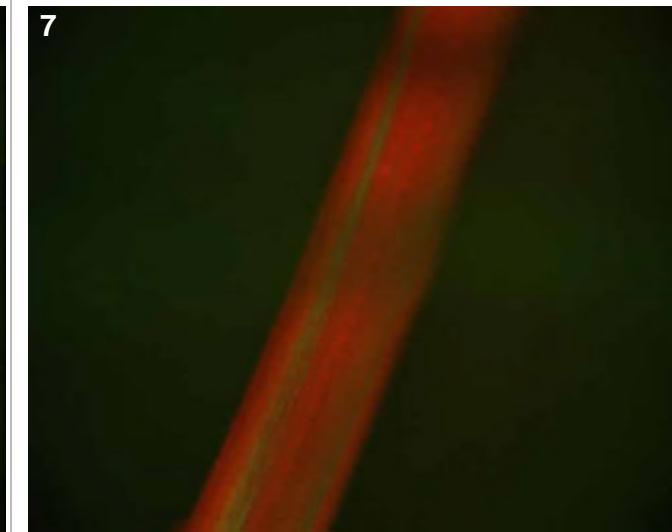
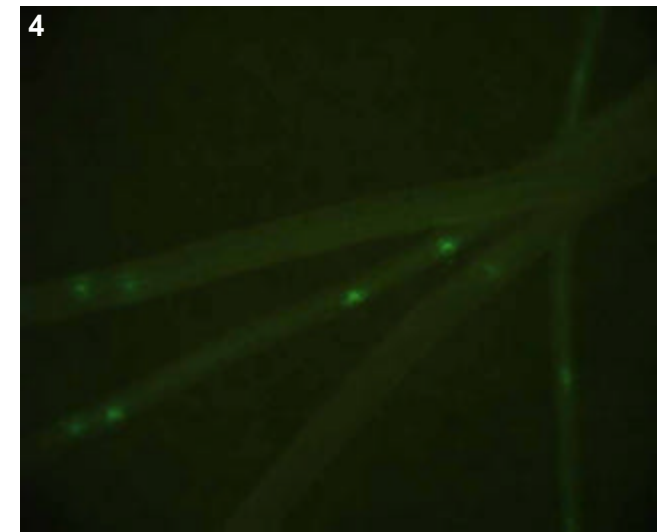
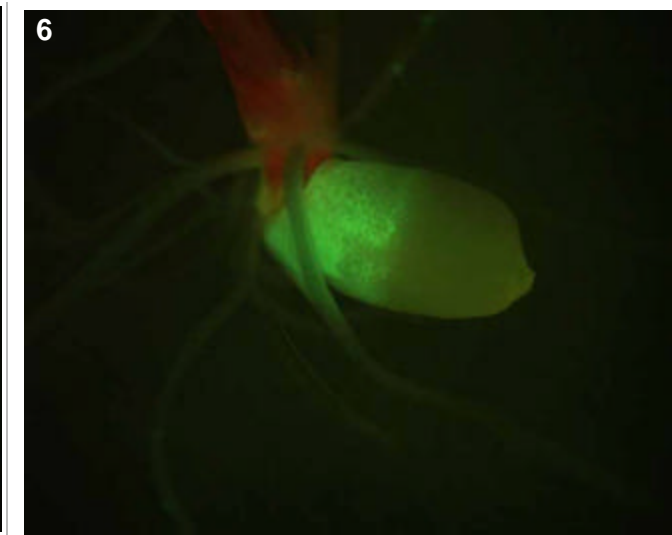
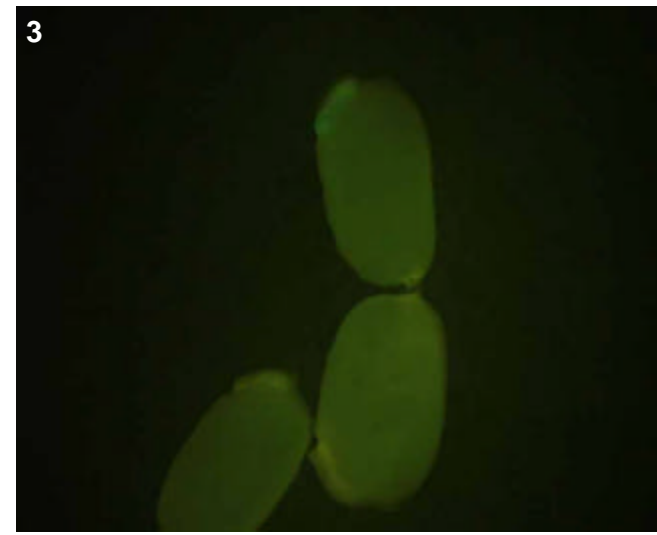
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 0



T0 comments

Expression in collar and surrounding vascular tissue, also in floral tip and moderately in anthers

T1 seed comments

1/5 seed showed bright expression

T1 seedling comments

Very bright at lateral root emergence. Also crown and lat vascular. Not much in the shoot except around the edge of first leaf and very faint collar expression.

Genotype: AOO G08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

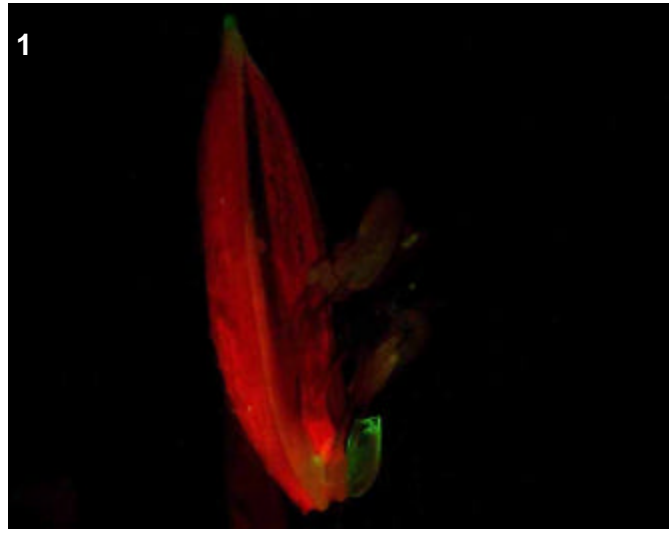
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Partial tetraploid. Expression in floral tips, lodicules and patchy in anthers

T1 seed comments

T1 seedling comments

Genotype: AOO H01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

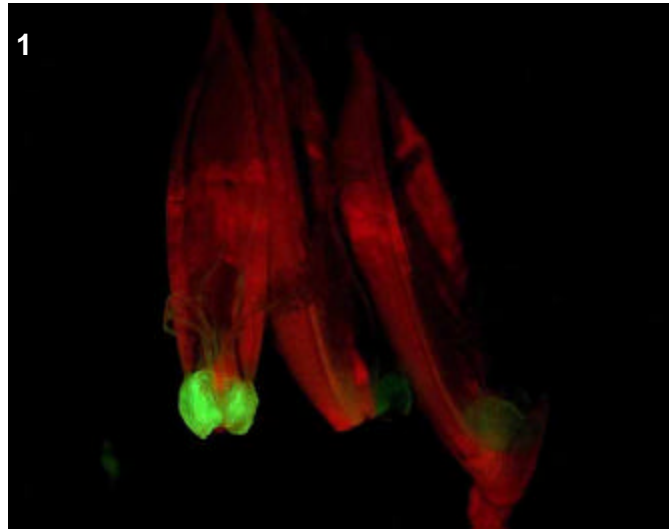
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expressing in the lodicules, in varying intensity between the flowers

T1 seed comments

T1 seedling comments

Genotype: AOO H05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

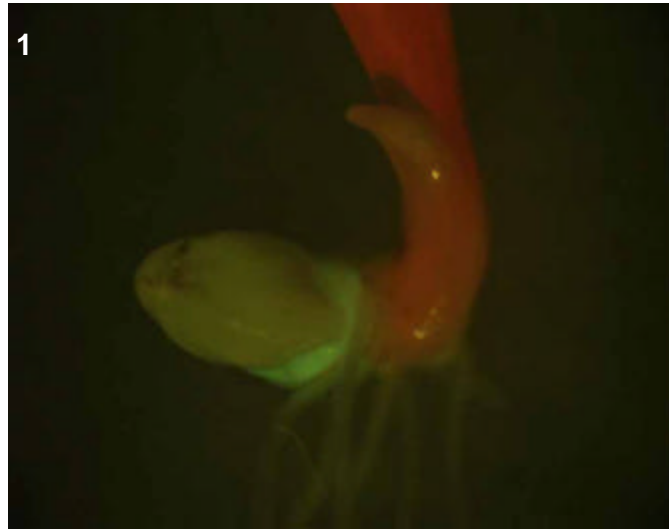
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 249



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AOO H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

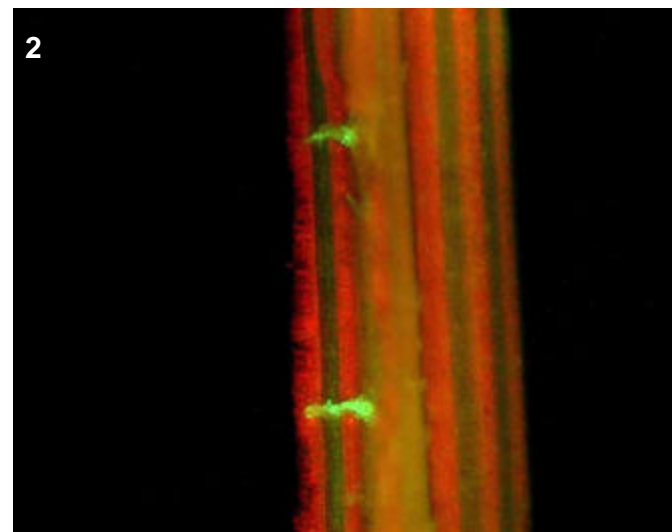
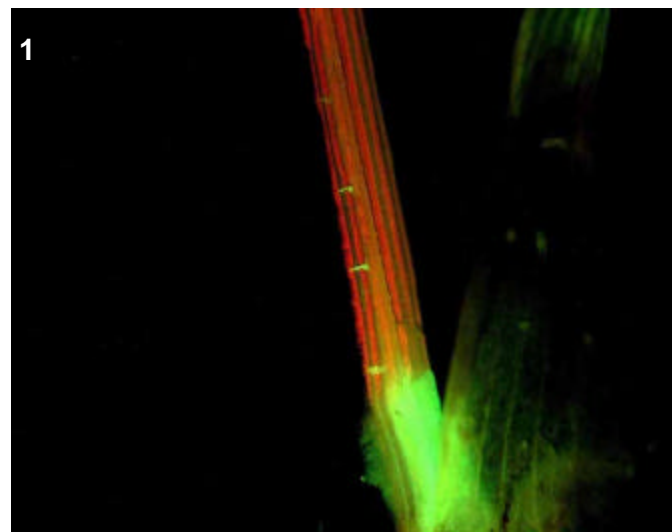
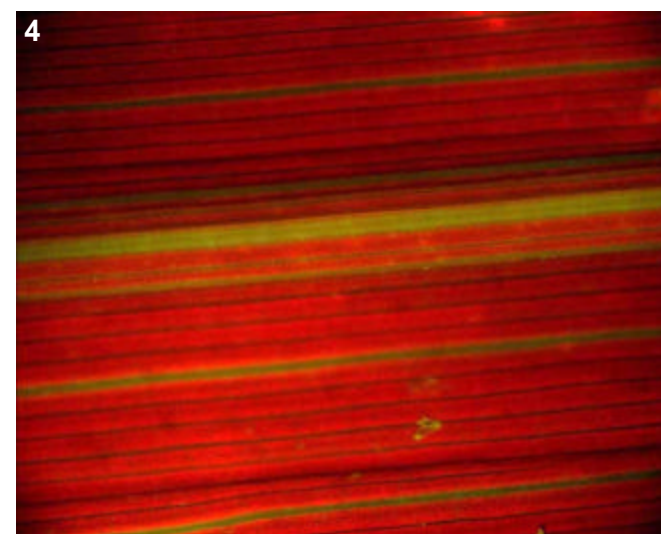
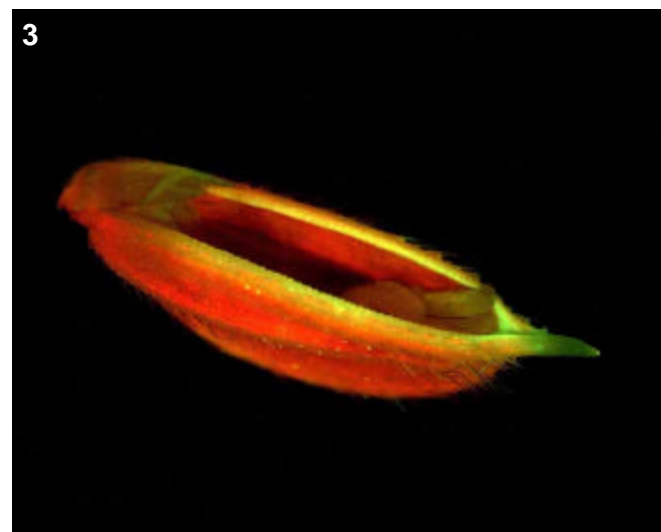
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A bright vascular line. Strong expression in collar and surrounding vascular of sheath and leaf (note the photo closeup of the glowing connecting vascular elements in leaf tissue). The leaf section was unusually fluorescent, indicating substantial amounts of GFP in vascular tissue. The floral vascular also demonstrated high GFP expression.

T1 seed comments

T1 seedling comments

Genotype: AOP B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

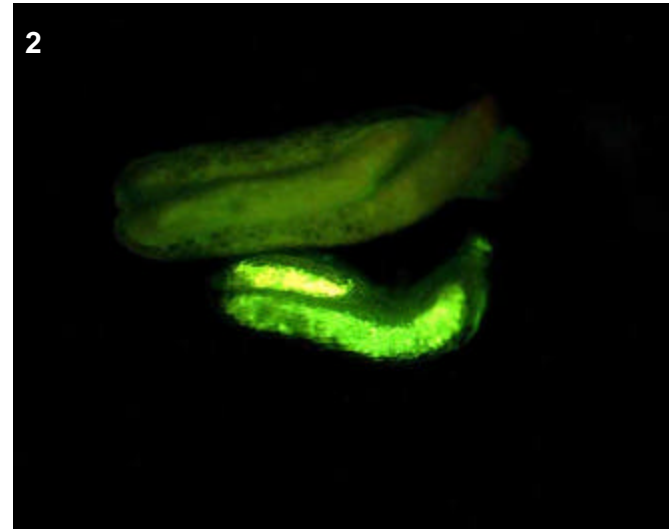
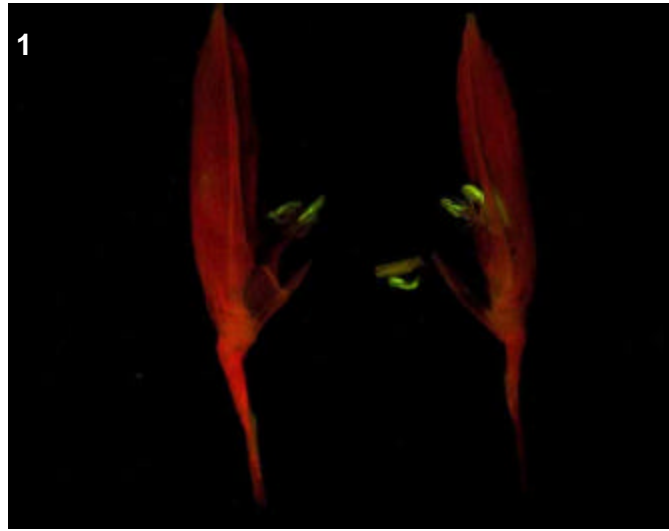
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in some anthers, but not always consistent. Only two of four flowers were glowing, and even within flowers the intensity varied among the anthers (see pic), could be developmentally regulated, or perhaps only some of the anthers have released their pollen?

T1 seed comments

T1 seedling comments

Genotype: AOP C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

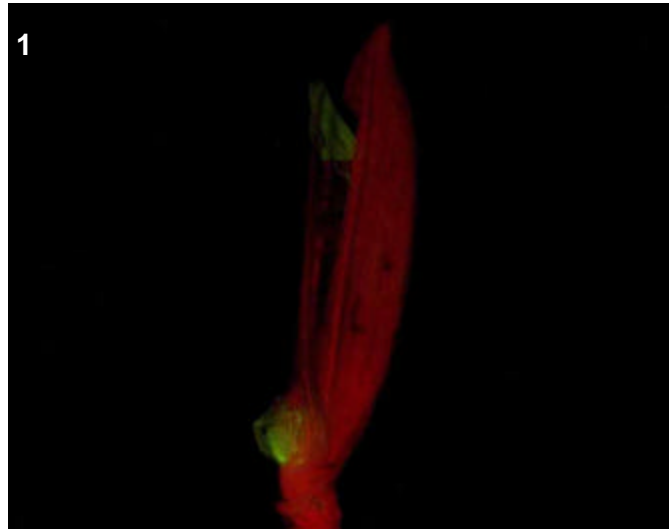
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

This pic might be in the wrong location, but the name matches so putting it here. Expression in lodicules and anthers, perhaps faintly in sheath

T1 seed comments

T1 seedling comments

Genotype: AOP C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

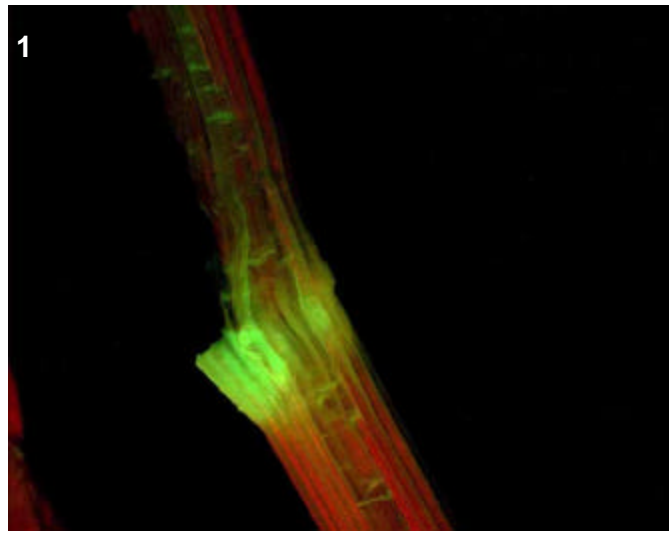
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in collar as well as surrounding vascular of leaf and sheath. Also some expression floral vascular (no pic).

T1 seed comments

T1 seedling comments

Genotype: AOP D12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

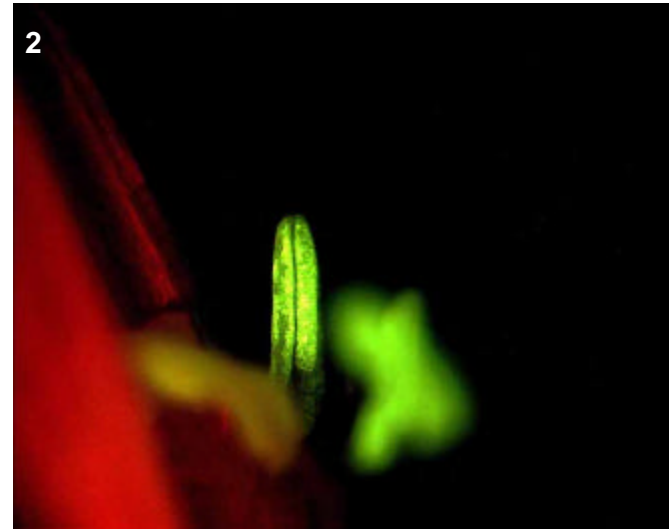
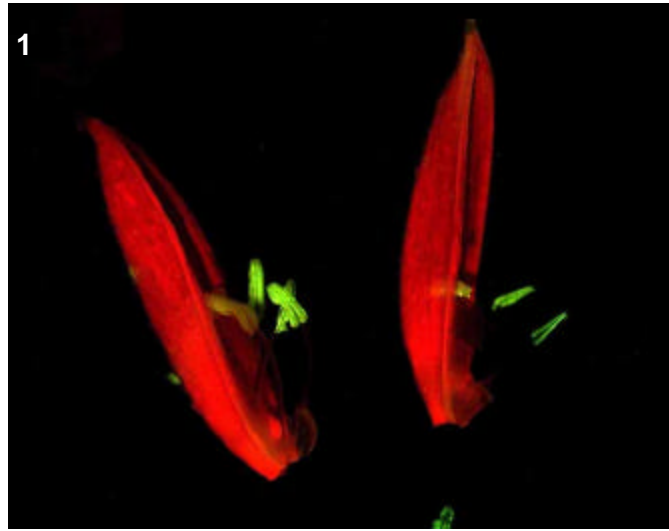
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 plants

Confocal?

Number T2 seed produced: 179



T0 comments

Strong expression in anthers, but inconsistent in expression between flowers and within flowers

T1 seed comments

1/5 seed show expression.

T1 seedling comments

Genotype: AOP F10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

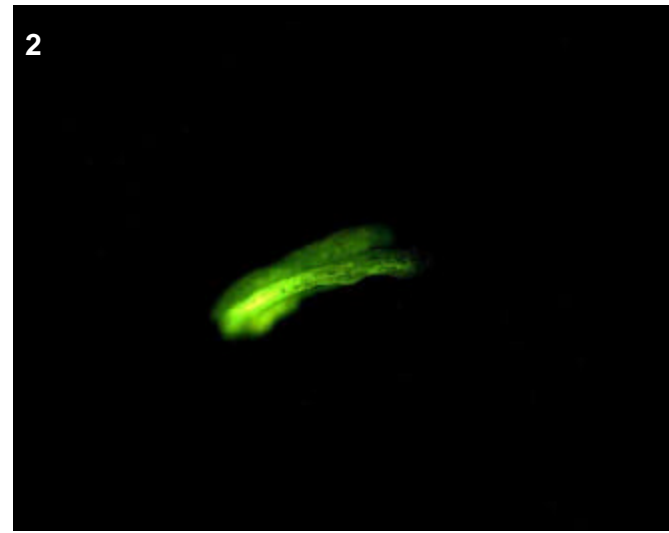
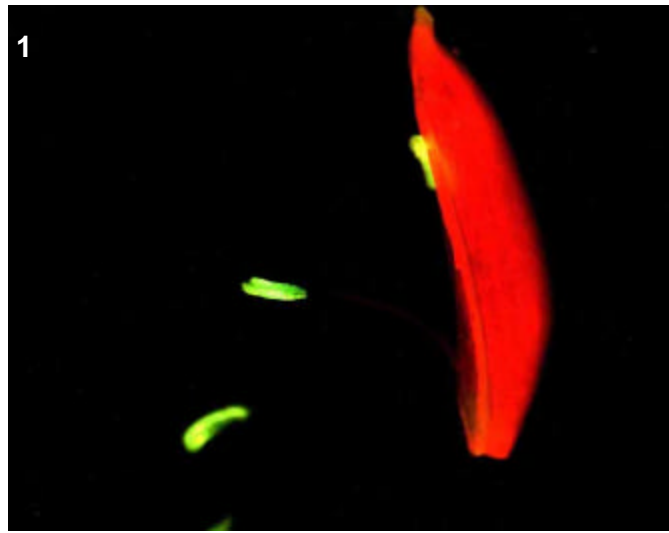
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in some of the flower's anthers, anthers seem small

T1 seed comments

T1 seedling comments

Genotype: AOP H03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-10
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

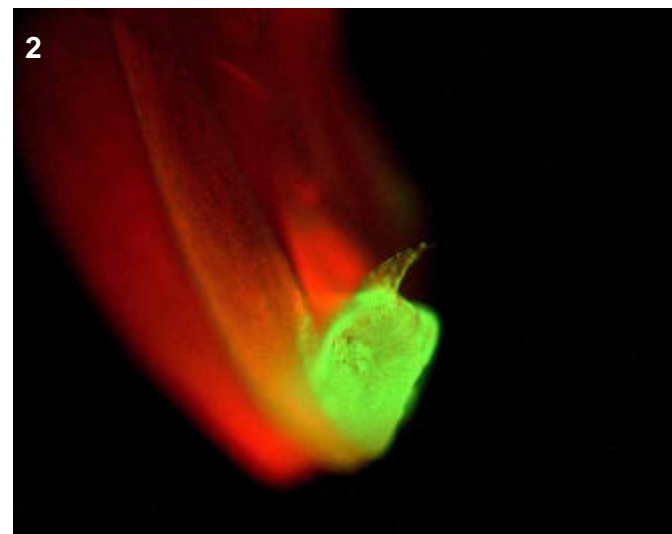
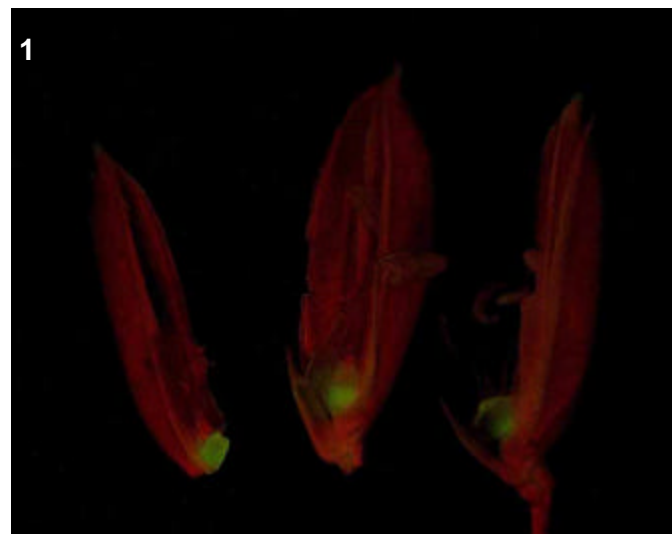
No GFP detected

T1 in greenhouse?

YES, 3 GFP+ plants

Confocal? YES

Number T2 seed produced: 58



T0 comments

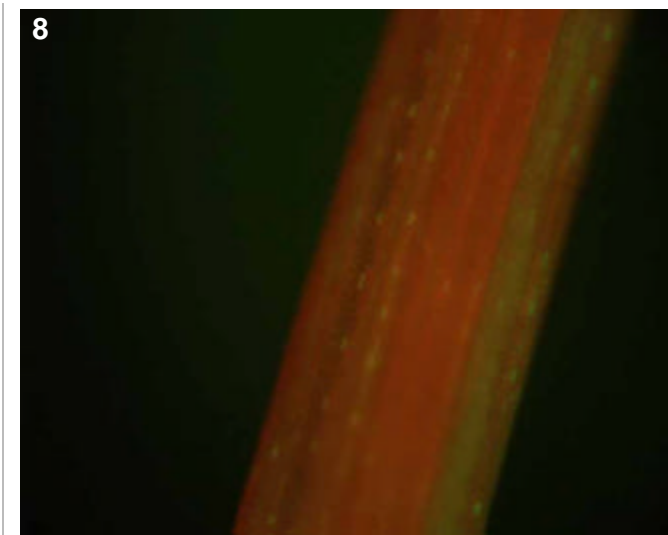
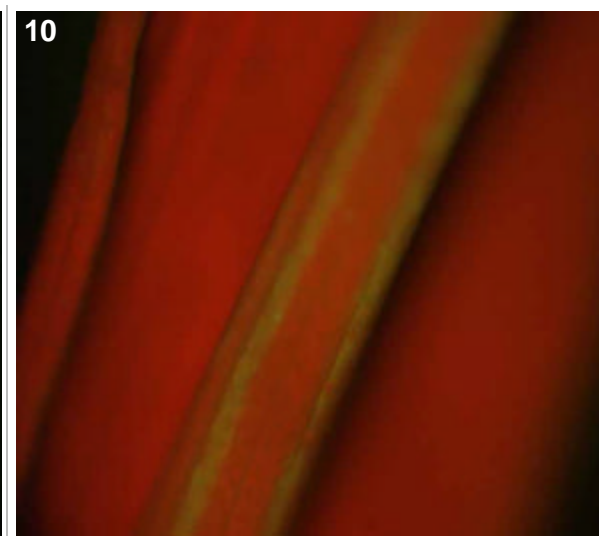
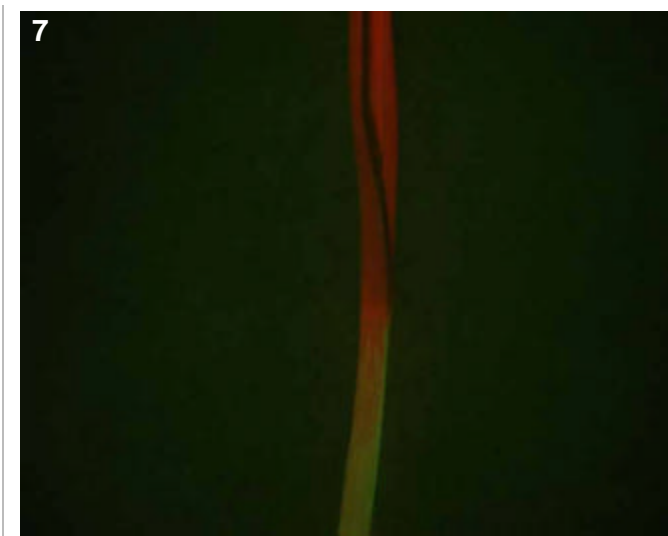
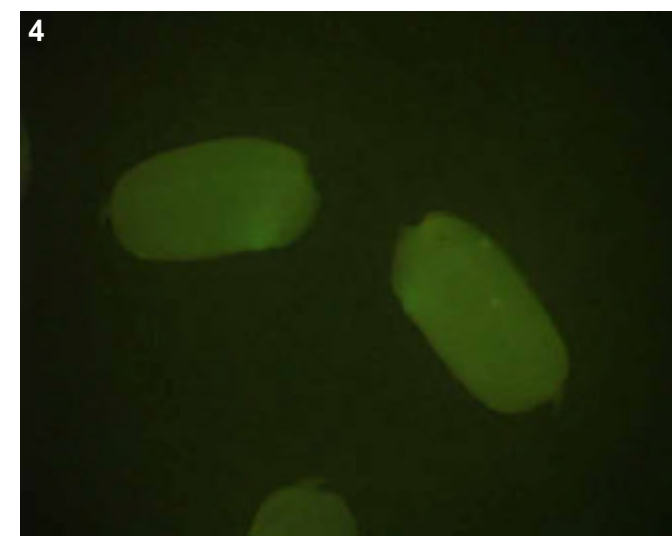
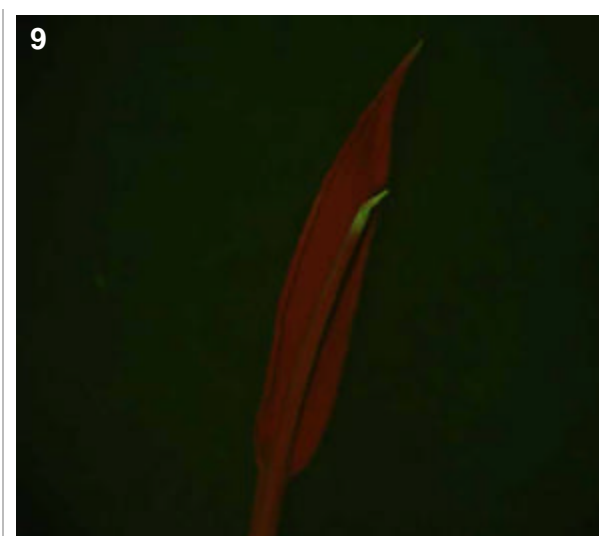
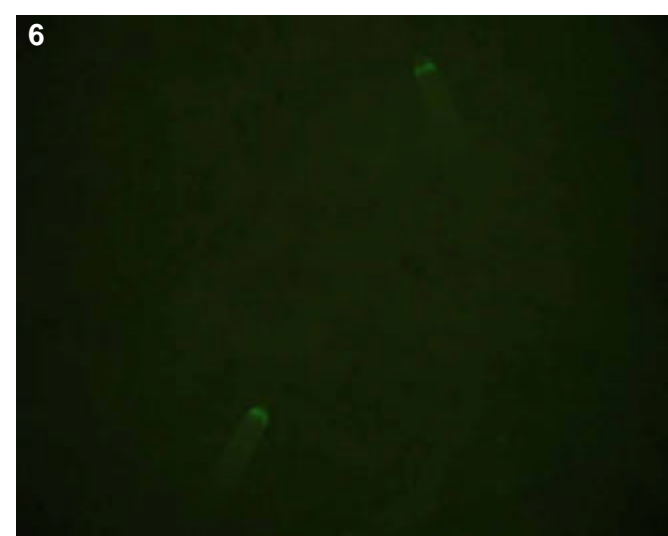
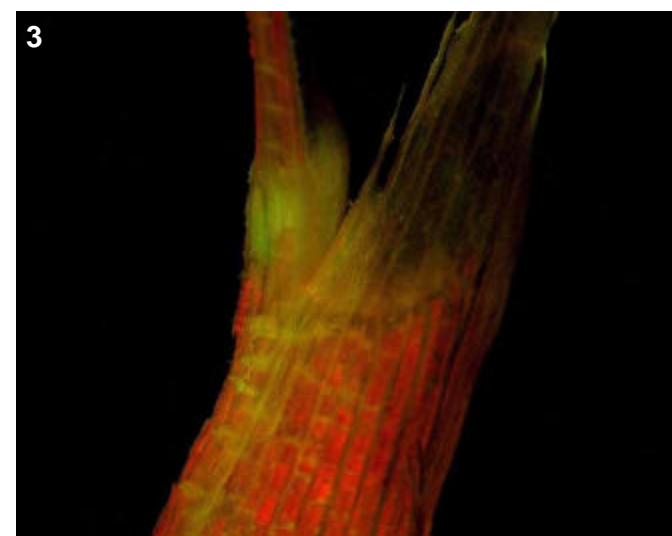
Expression concentrated in the collar, not much into surrounding vascular tissue. Also bright expression in lodicules

T1 seed comments

Expression faint in either the scutellum or embryo, for 3/5 seeds

T1 seedling comments

A fantastic root line because expression appears very specific to the root apex region, no where else. Bring many for confocal, may be variable. In shoot, strong expression in young leath and sheath tissues--mesophyll and stomata. Tips of leaves bright too.



Genotype: AOQ A03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

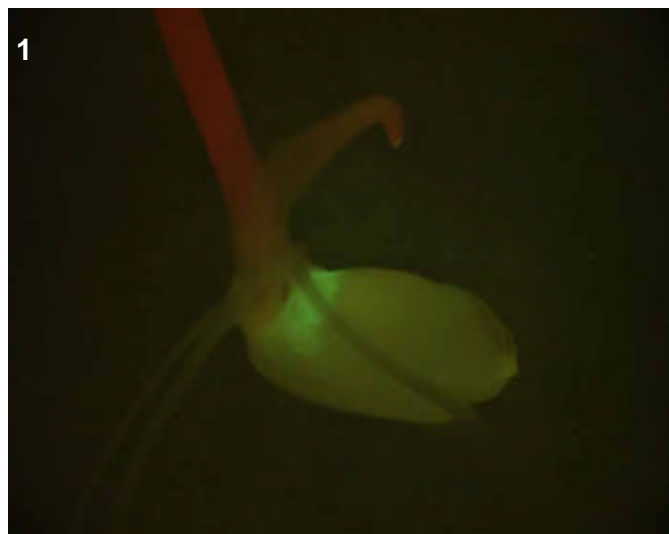
No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 0



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AOQ A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

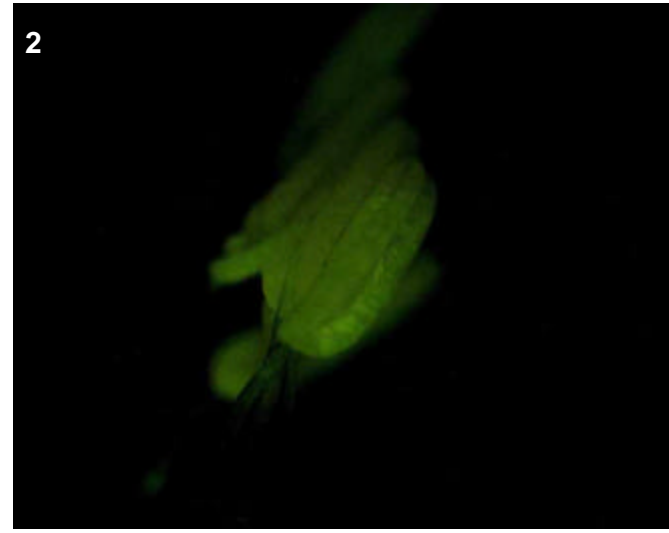
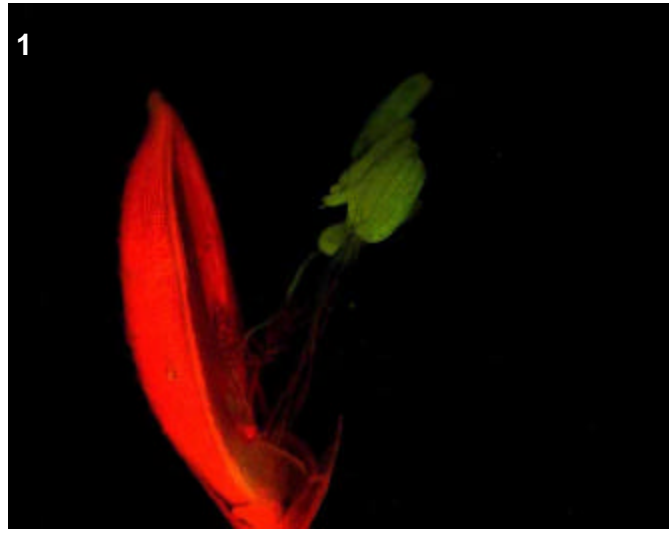
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

weak, yet consistent expression in anthers

T1 seed comments

T1 seedling comments

Genotype: AOQ C06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

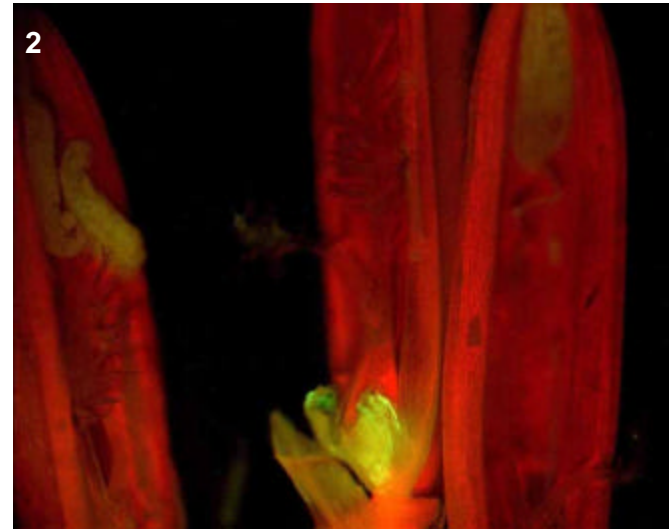
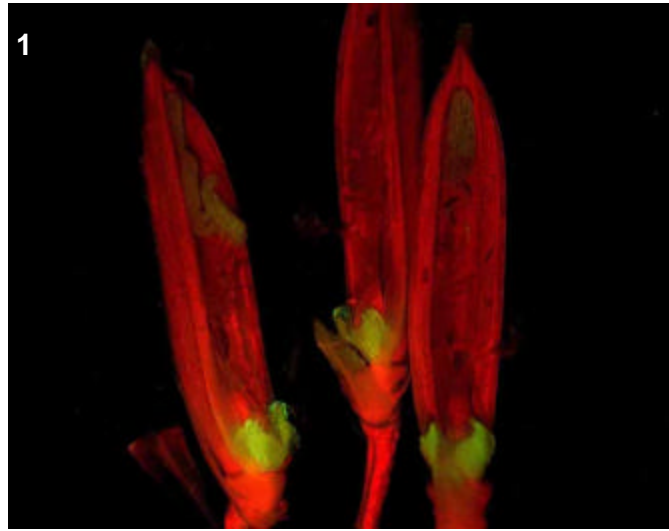
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong, consistent expression in the lodicules of all flowers, perhaps faint vascular expression in sheath but difficult to determine because of decayed vascular tissue

T1 seed comments

T1 seedling comments

Genotype: AOQ D03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

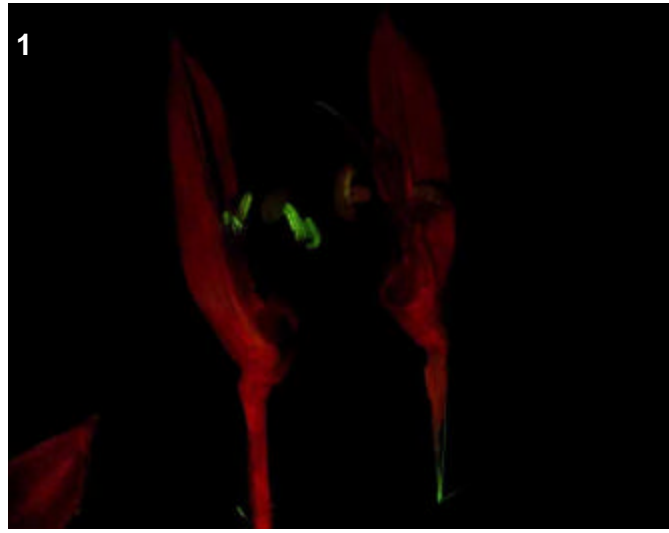
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Sometimes strong, yet inconsistent expression in anthers of flowers. Expression varies between and within flowers

T1 seed comments

T1 seedling comments

Genotype: AOQ F06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

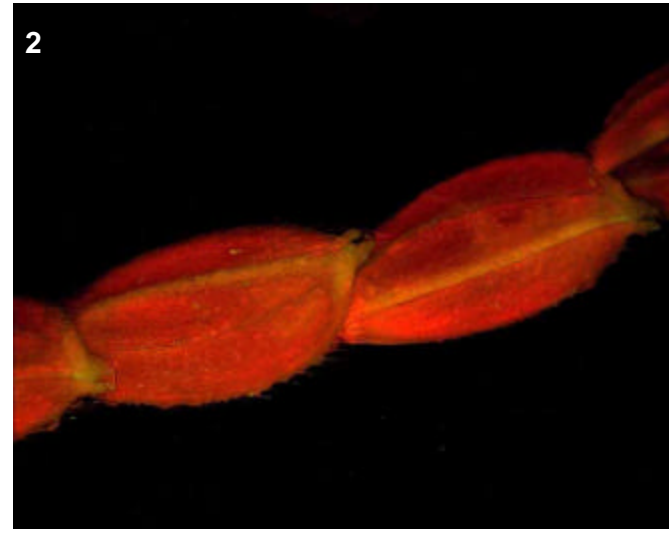
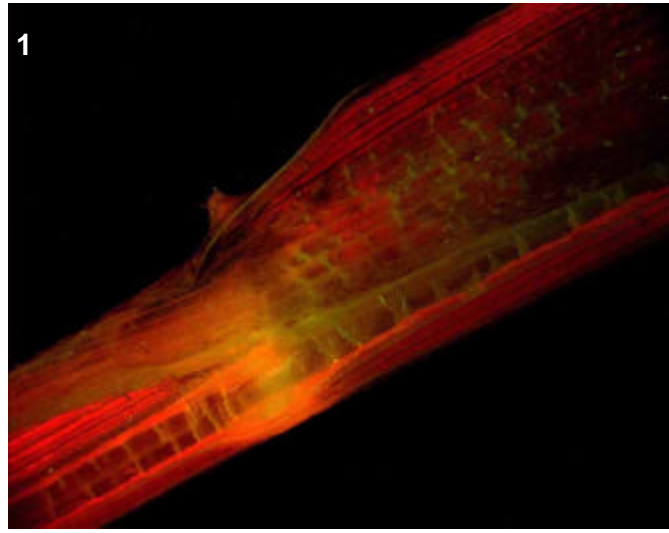
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression in the sheath vascular, but not in the collar. Moderate expression in floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOQ F08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

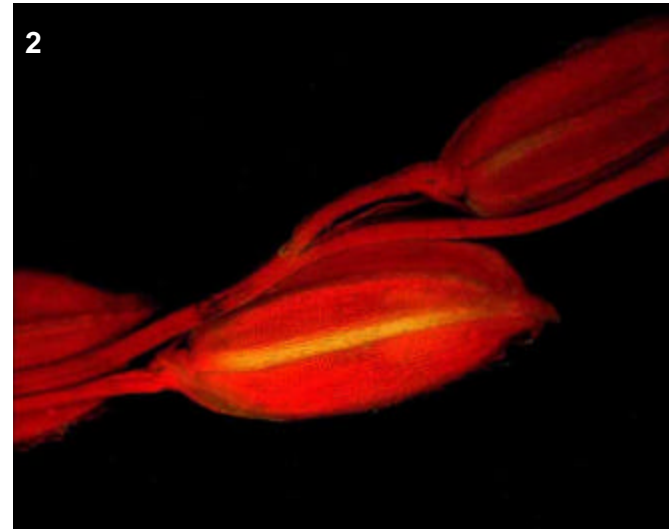
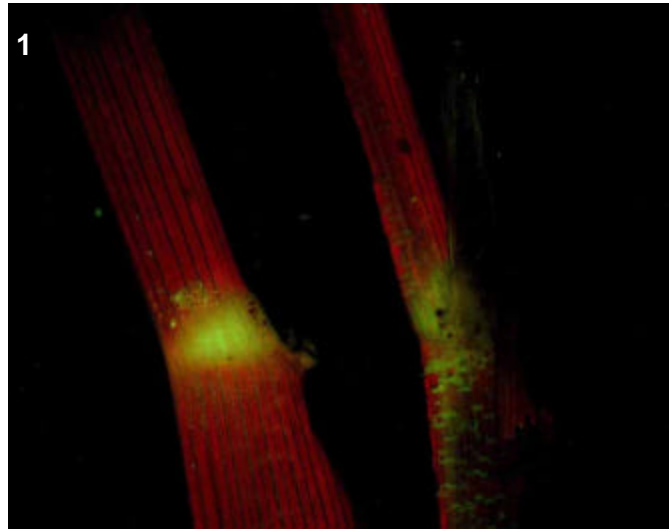
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 plants

Confocal?

Number T2 seed produced: 23



T0 comments

A bright vascular line, with expression in collar and sheath vascular, and in floral vascular

T1 seed comments

T1 seedling comments

Genotype: AOQ G02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

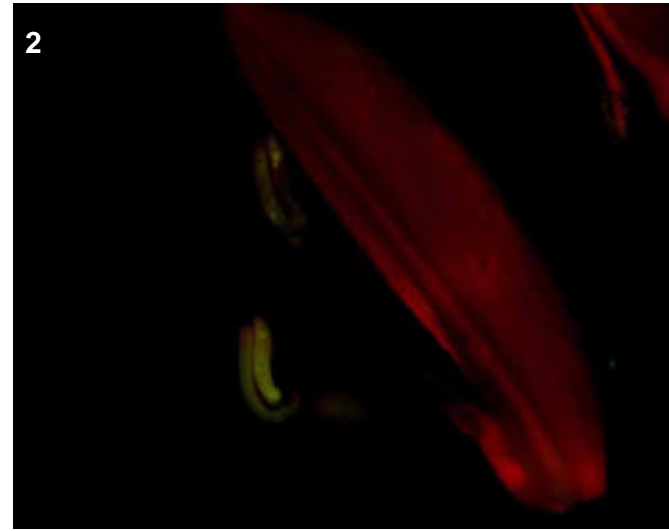
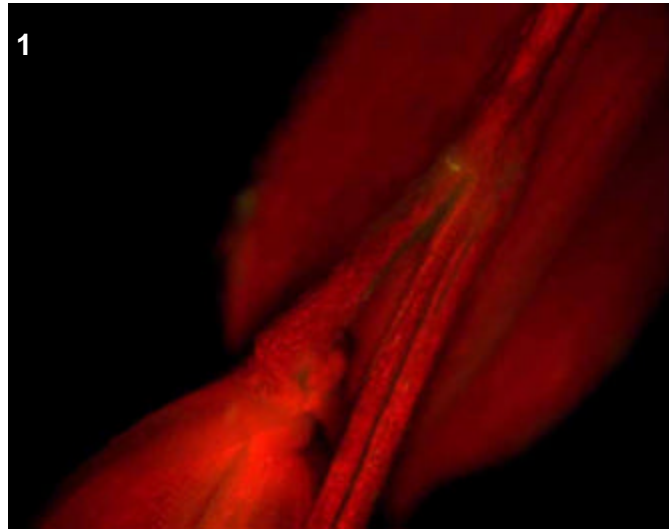
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Small band of expression at the base of each pedicel. May be faint expression in anthers as well but not sure, could just be necrotic anthers (see pic)

T1 seed comments

T1 seedling comments

Genotype: AOQ H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

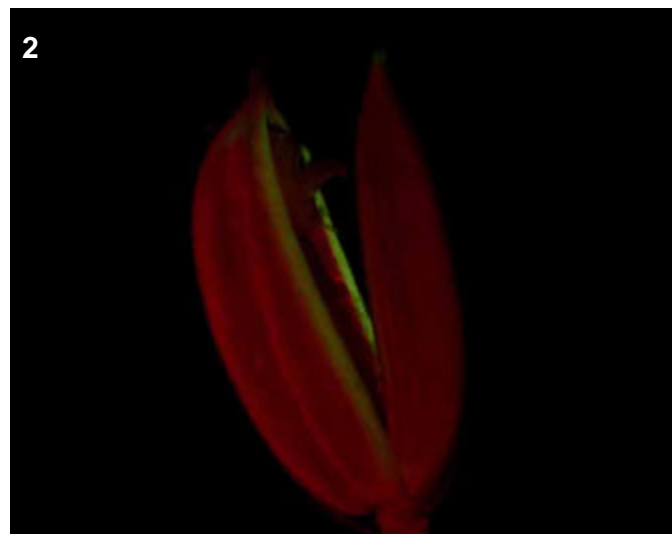
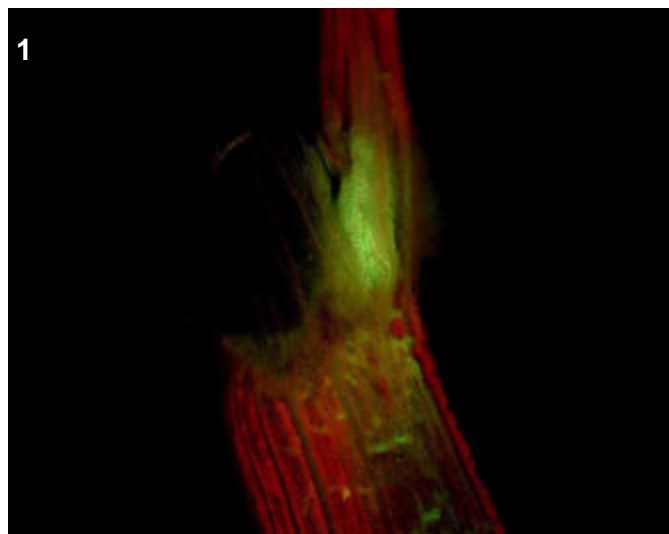
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright vascular line. Expression in collar and sheath vascular, as well as floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOR A06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

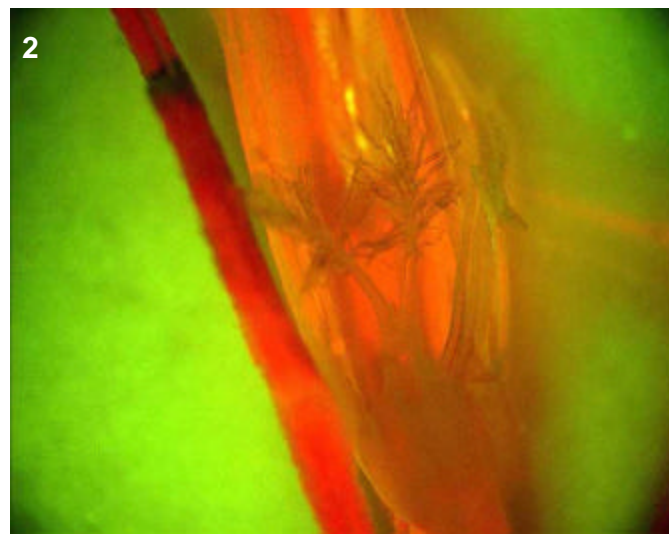
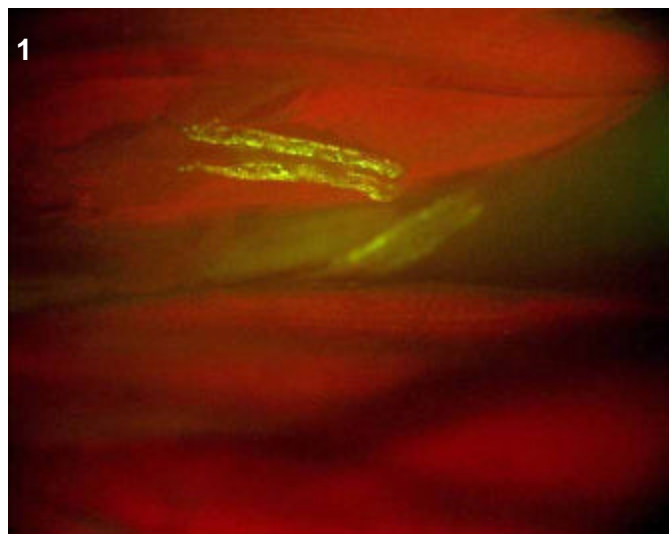
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Fluorescence observed in all anthers of 3 flowers, probably the anther wall is glowing as no glowing pollen was released.

T1 seed comments

T1 seedling comments

Genotype: AOR A07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

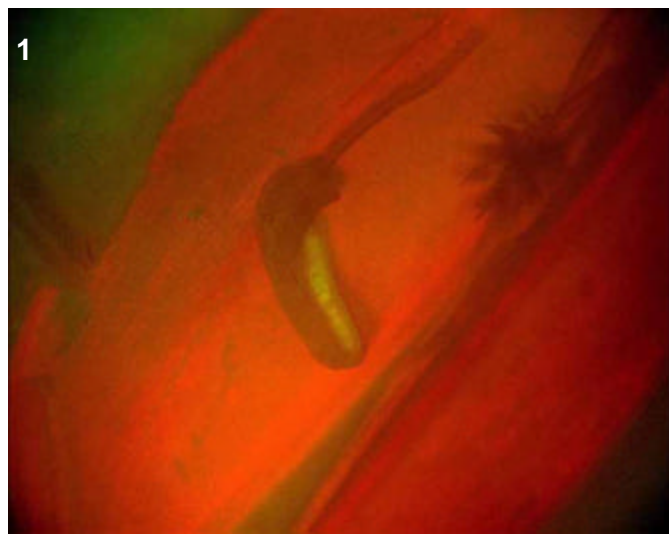
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Patchy, inconsistent expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOR A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1-3

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

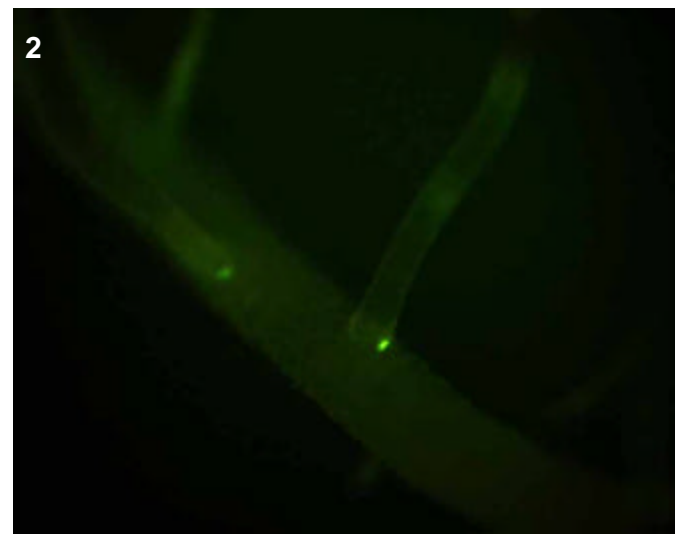
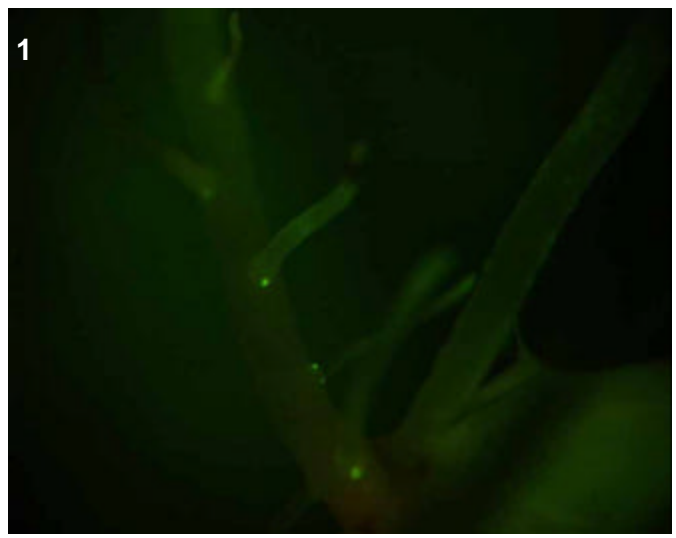
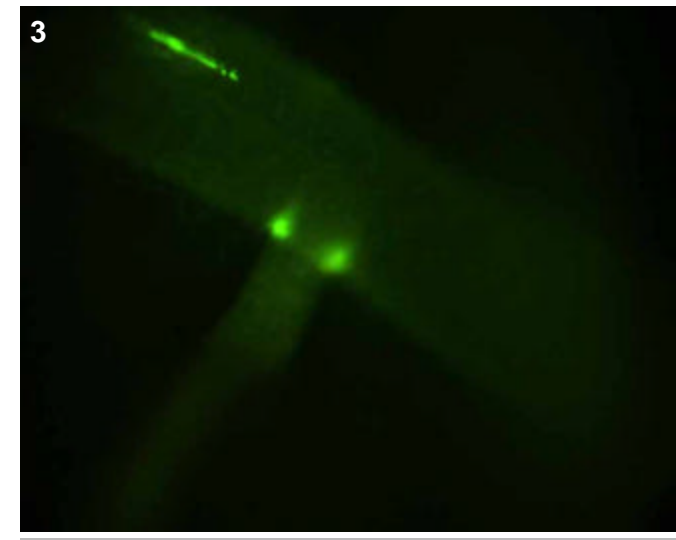
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 200



T0 comments

T1 seed comments

T1 seedling comments
 Expression appears as two bright dots at the base of the more mature lateral roots. Maybe an artifact?

Genotype: AOR C04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

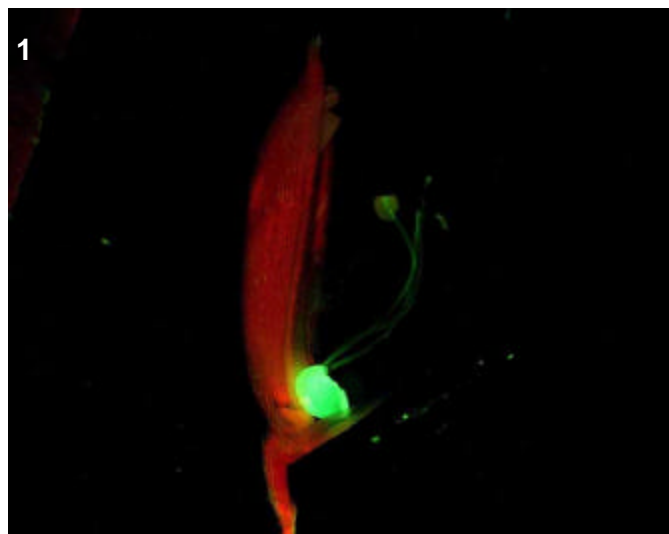
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Lodicules show expression, although it is variable in intensity between flowers.

T1 seed comments

T1 seedling comments

Genotype: AOR C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant: 2-8

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

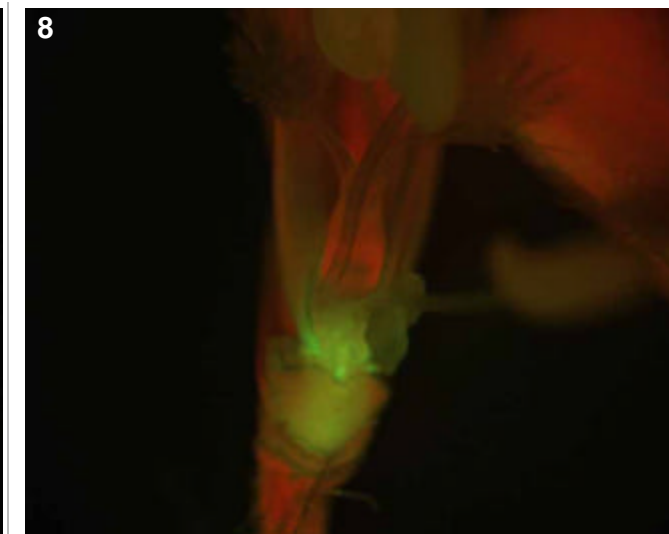
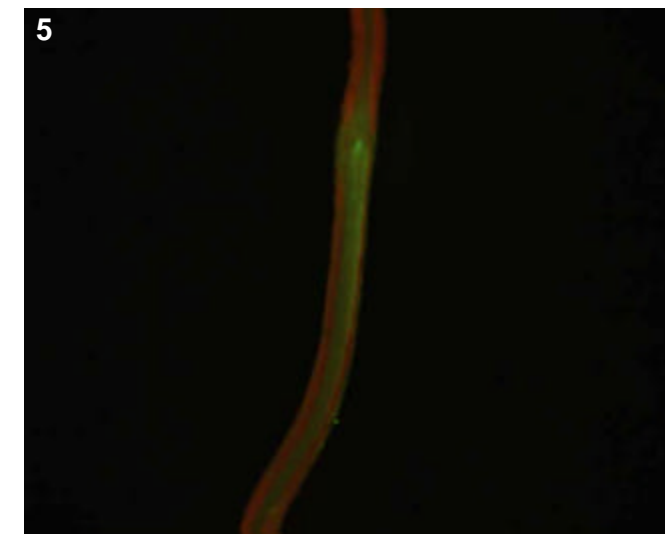
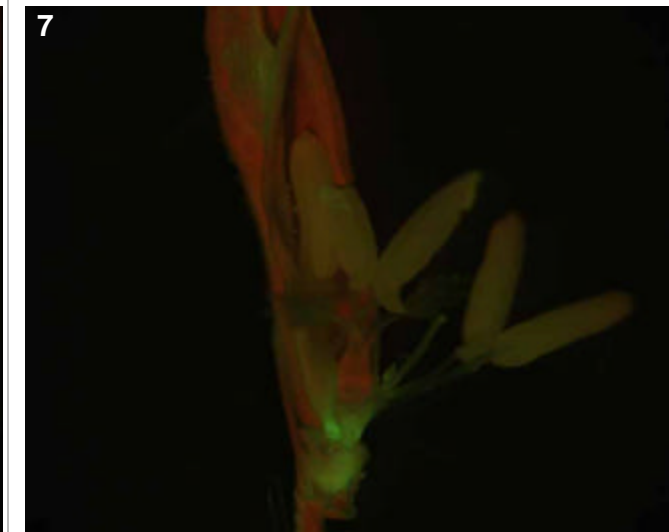
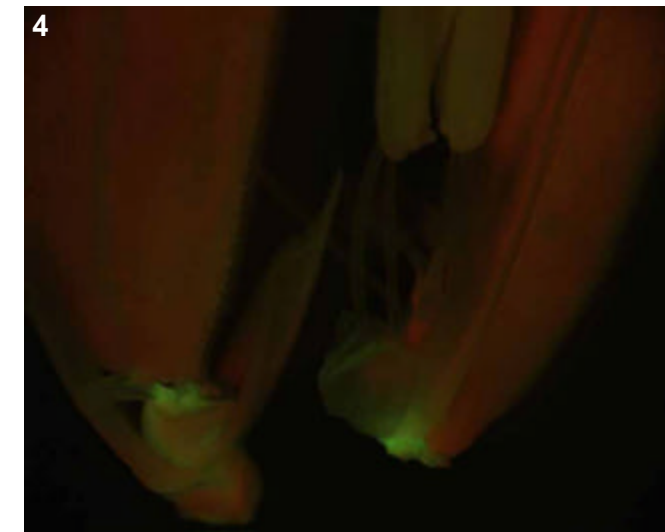
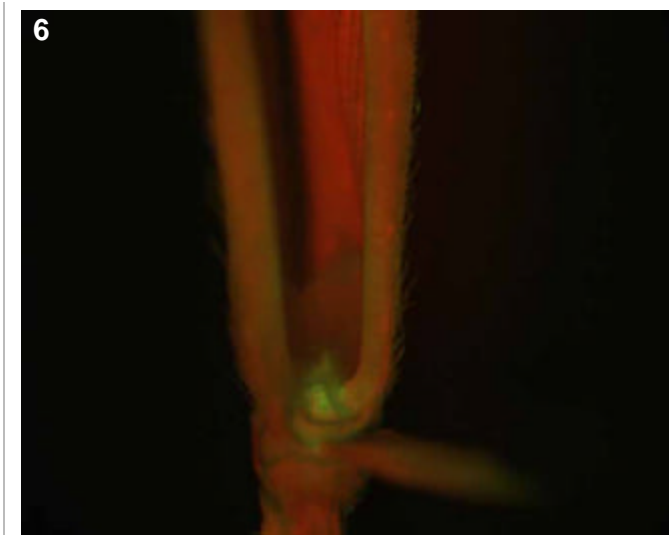
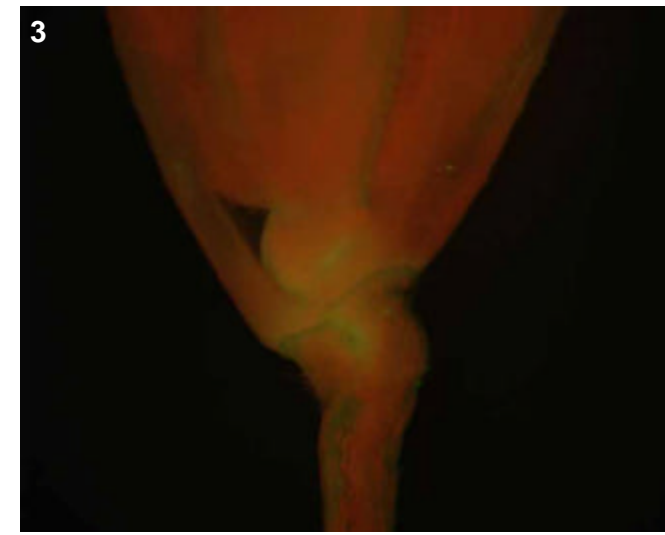
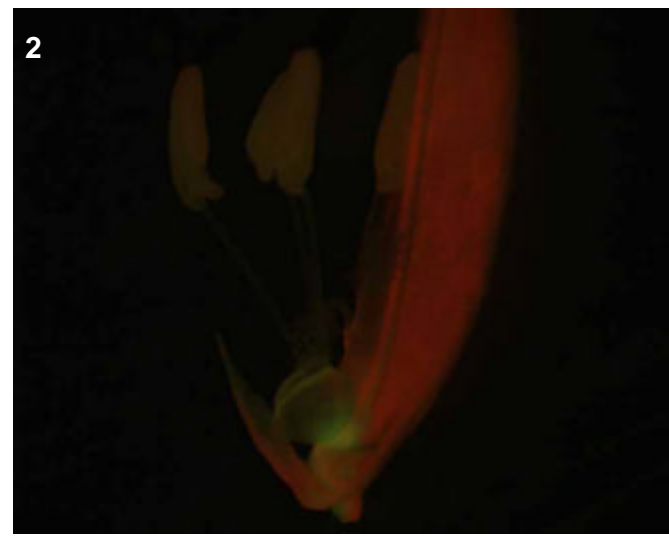
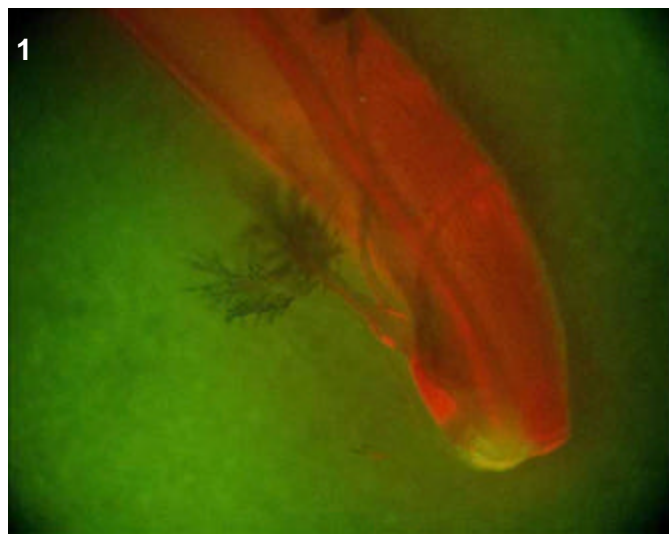
T1 Mature

- T0 pattern verified:
It is definitely a rachilla-specific line, maybe pedicel vascular too?
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 3 plants

Confocal?

Number T2 seed produced: 305



T0 comments

Flouescence just below the carpel.

T1 seed comments

T1 seedling comments

Genotype: AOR D09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

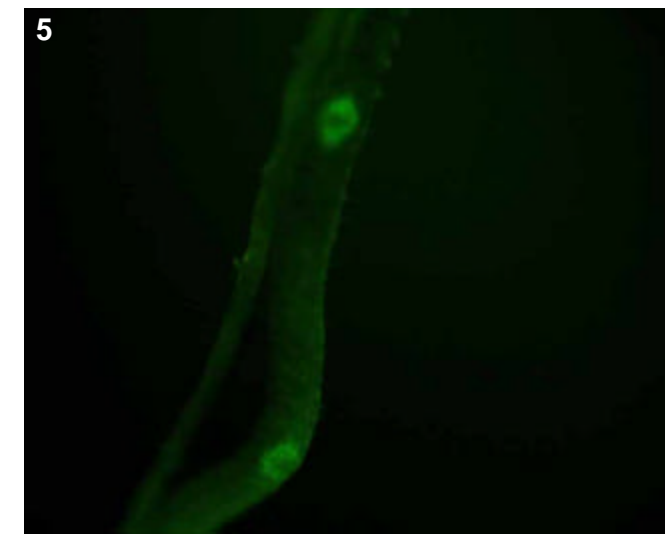
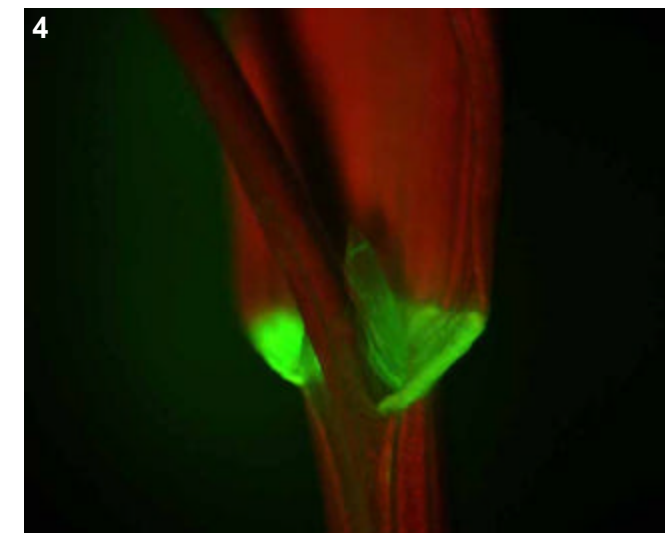
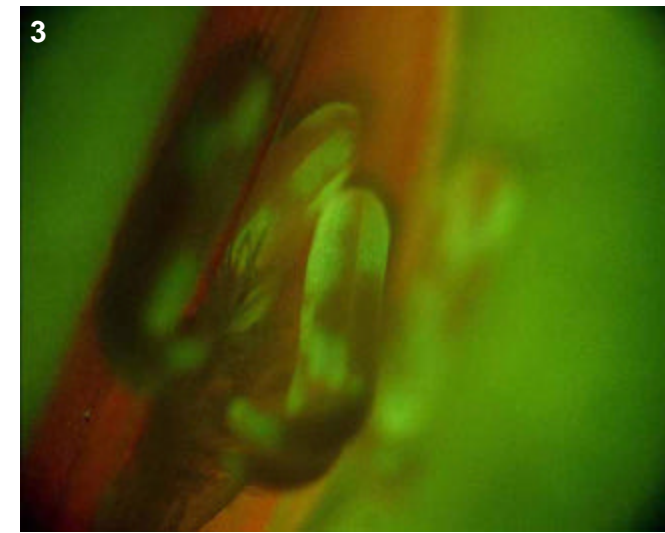
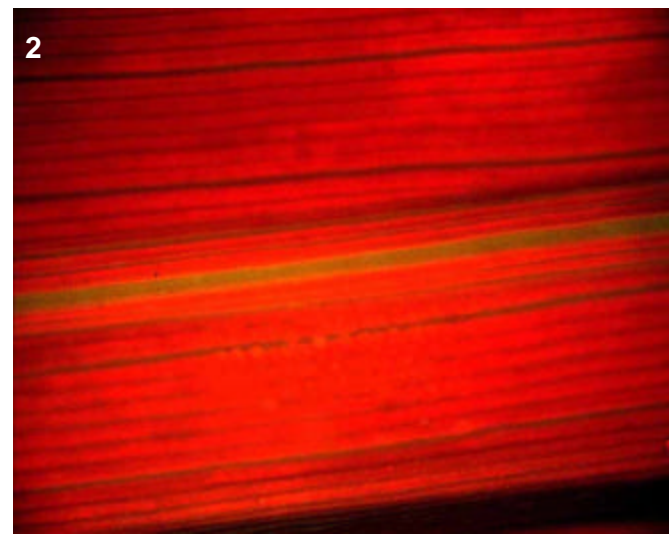
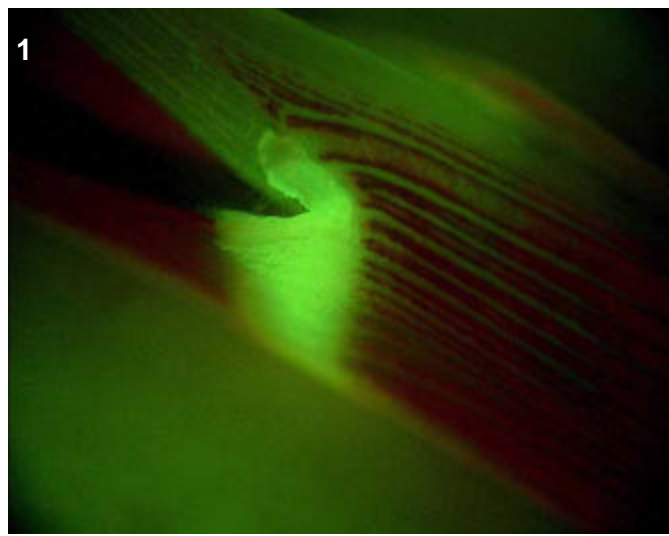
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 341



T0 comments

Very strong expression in collar and surrounding vascular of both leaf and sheath, as well as patchy expression in anthers.

T1 seed comments

T1 seedling comments

Seedlings (3/5) shows expression in collar and around lateral roots.

Genotype: AOR E11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

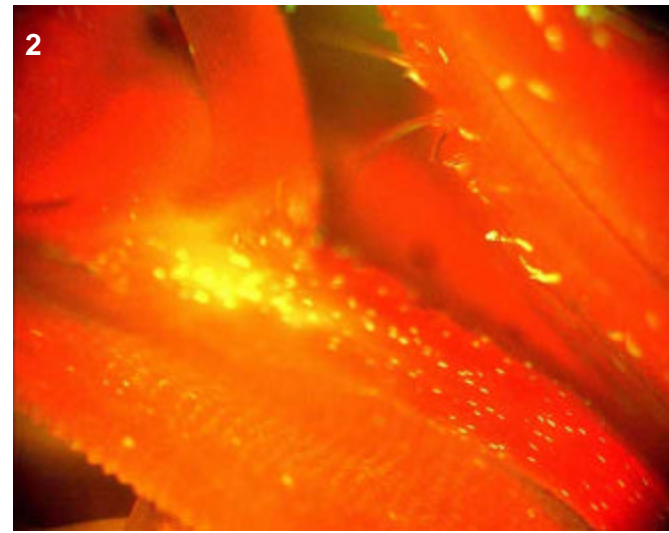
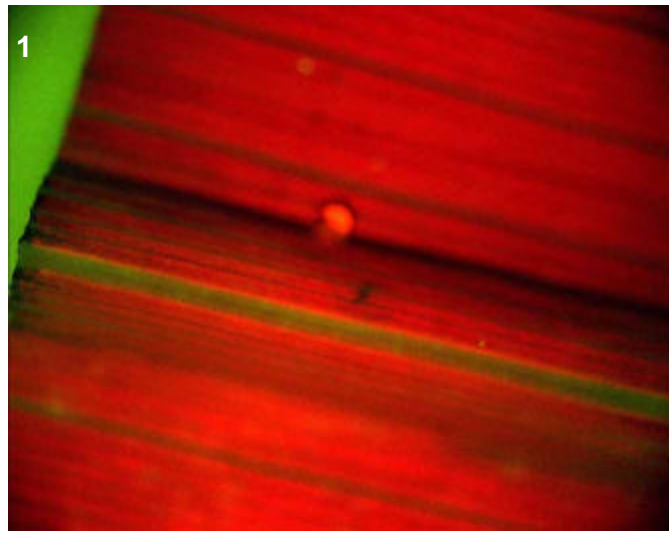
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression is in the stomata and trichomes of the lemma and palea. Also strong vascular expression in the leaf.

T1 seed comments

T1 seedling comments

Genotype: AOR F07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

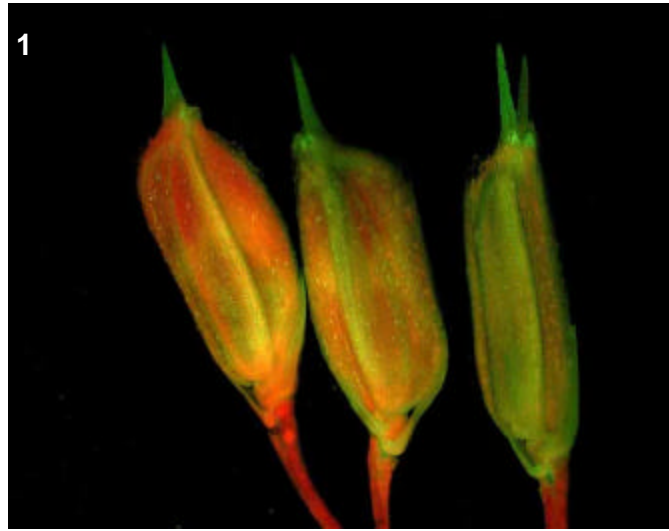
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright expression in lemma/palea, and in tips of flowers. A tetraploid?

T1 seed comments

T1 seedling comments

Genotype: AOR F08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

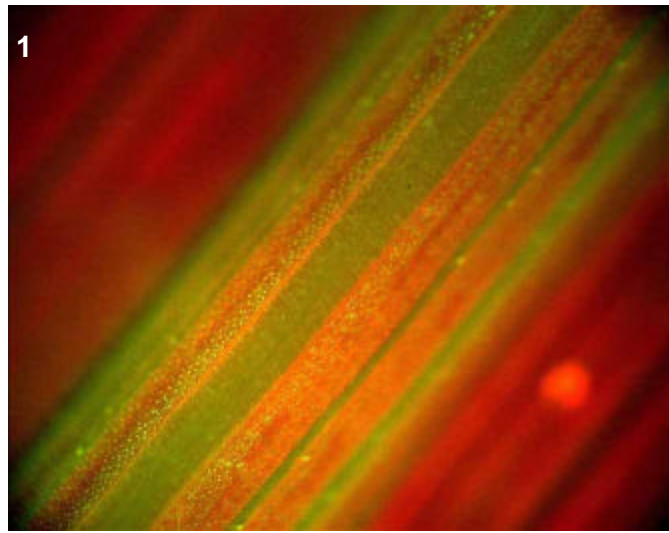
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid, with vascular expression, and also perhaps stomatal, in leaf.

T1 seed comments

T1 seedling comments

Genotype: AOS A10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

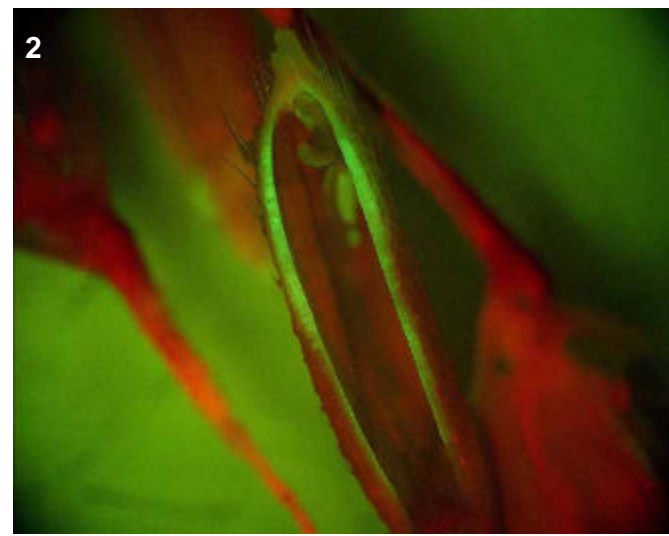
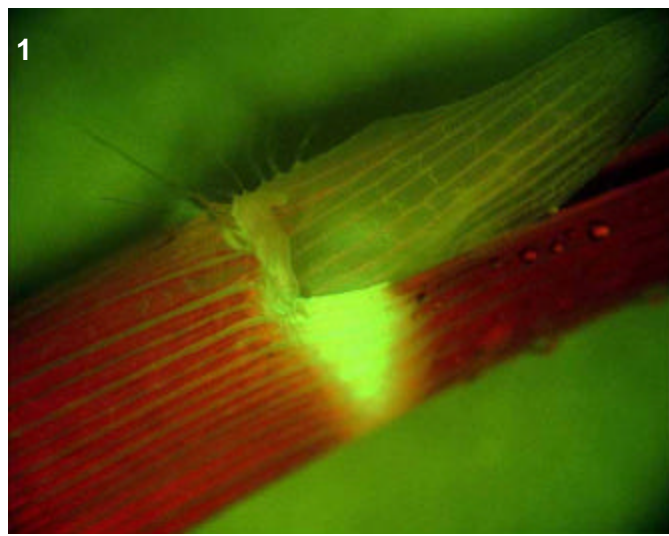
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 75



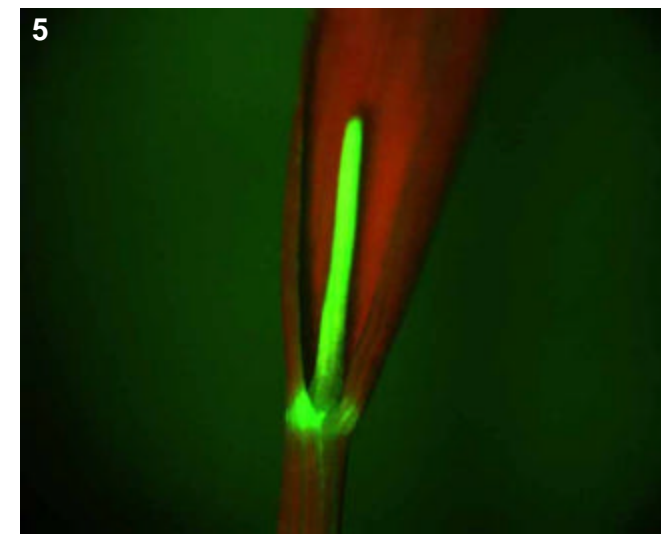
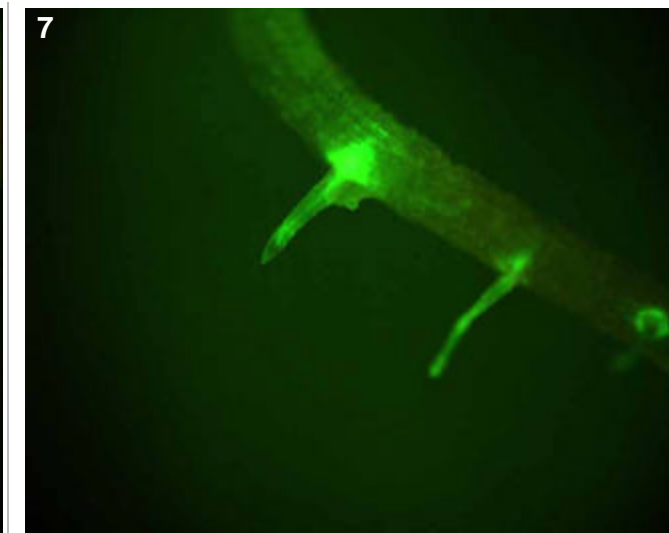
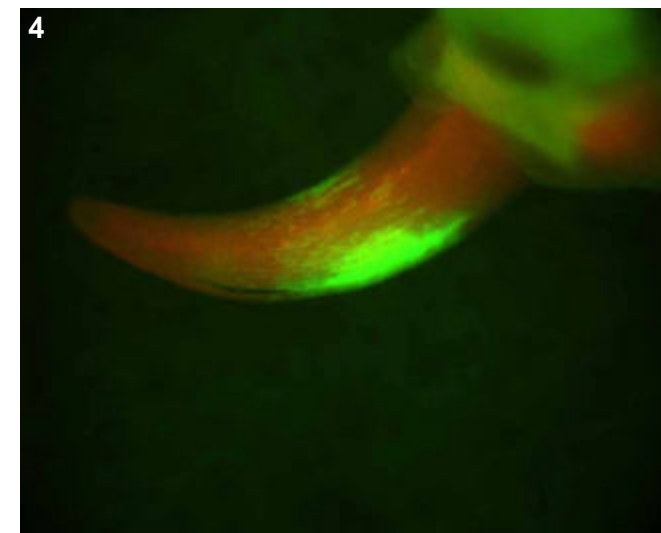
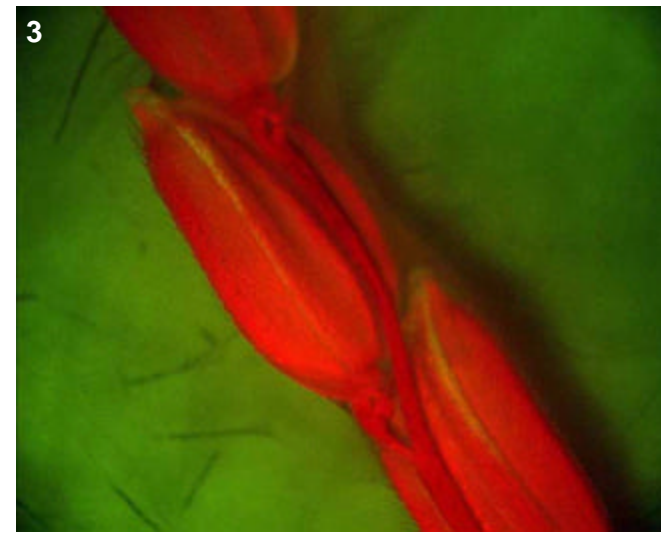
T0 comments

A bright vascular line. Expression in the collar and surrounding sheath vascular, and in the floral vascular. Also moderate expression in the anthers.

T1 seed comments

T1 seedling comments

Four days post-germination, bright vascular expression in coleoptile and lateral roots (two of five seedlings). One week post-germination, shoot and root vascular, with expression concentrated around lateral roots.



Genotype: AOS B12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid, perhaps weak expression in anthers and sheath

T1 seed comments

T1 seedling comments

Genotype: AOS D07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:

- T0 pattern verified plus:

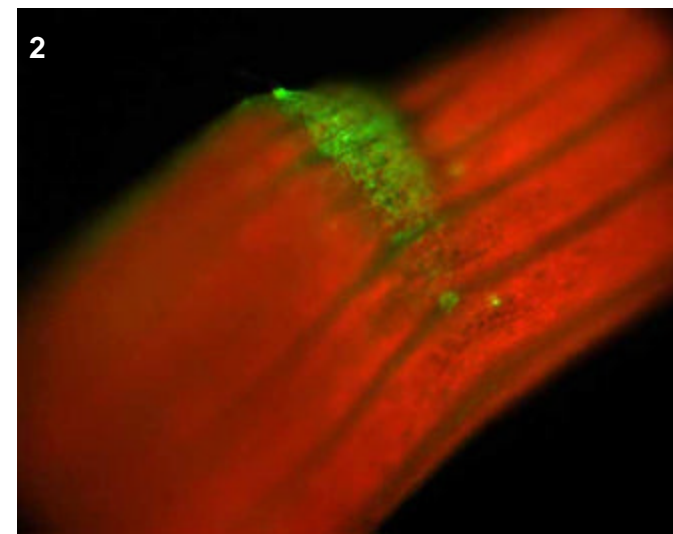
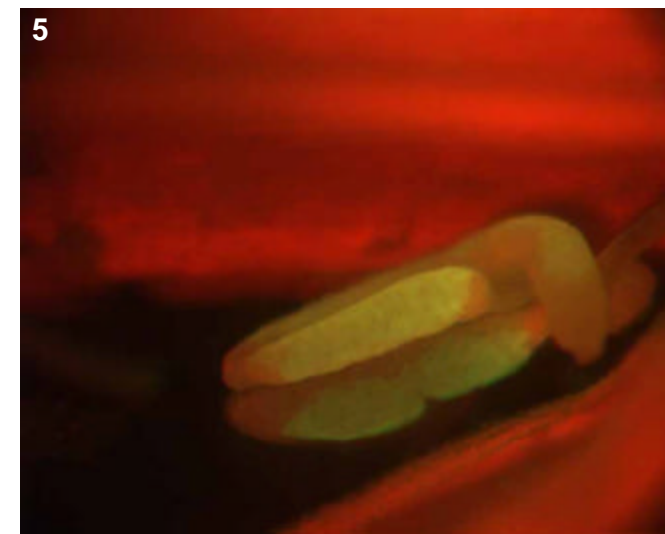
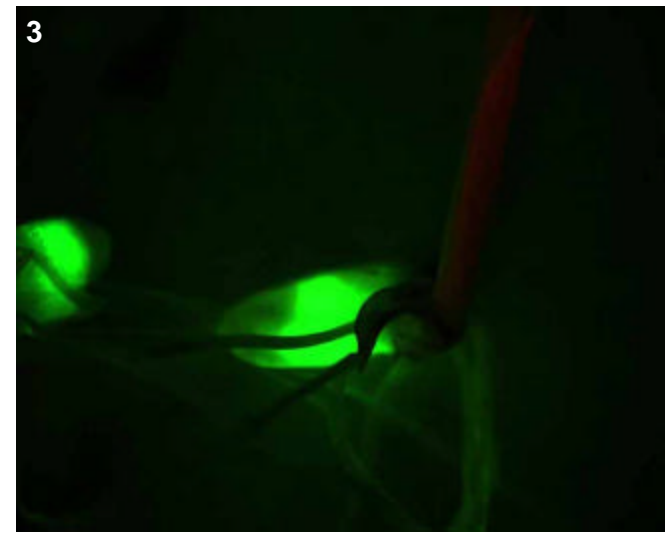
- New pattern:

- No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 45



T0 comments

Patchy expression in anthers.

T1 seed comments

Four of five seeds have expression.

T1 seedling comments

Clear that expression is very strong in the digesting endosperm and more faintly in the collar region.

Genotype: AOS F05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

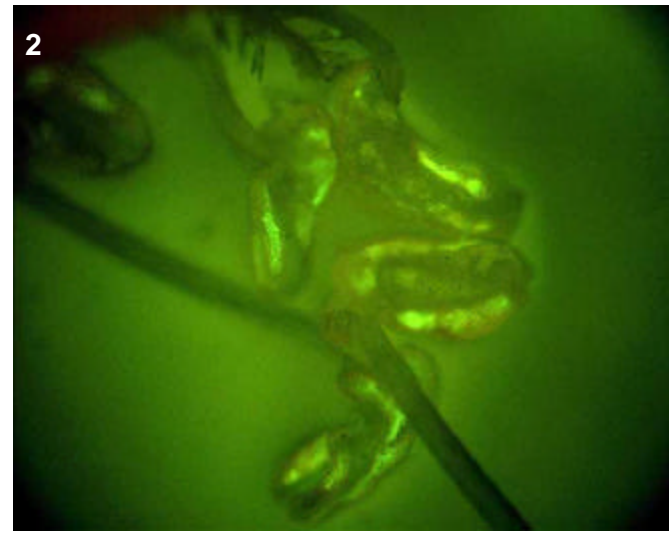
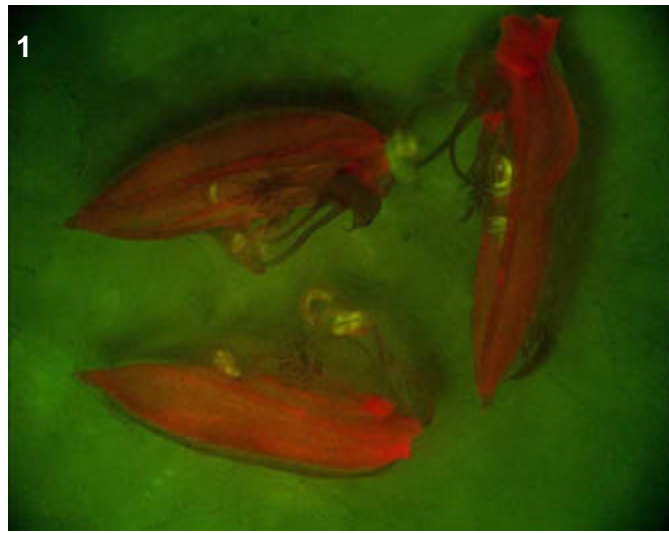
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

very short with compact panicles. Quite bright fluorescence in anthers, one of the most consistent of all anther-specific flowers observed. All flowers had virtually all fluorescent anthers

T1 seed comments

T1 seedling comments

Genotype: AOS F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

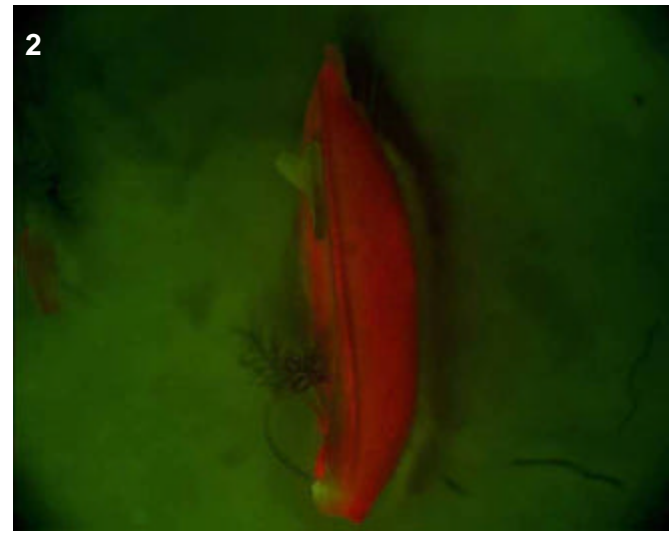
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Primarily expression at base of carpel, as well as some patchy expression in the anthers.

T1 seed comments

T1 seedling comments

Genotype: AOS G05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

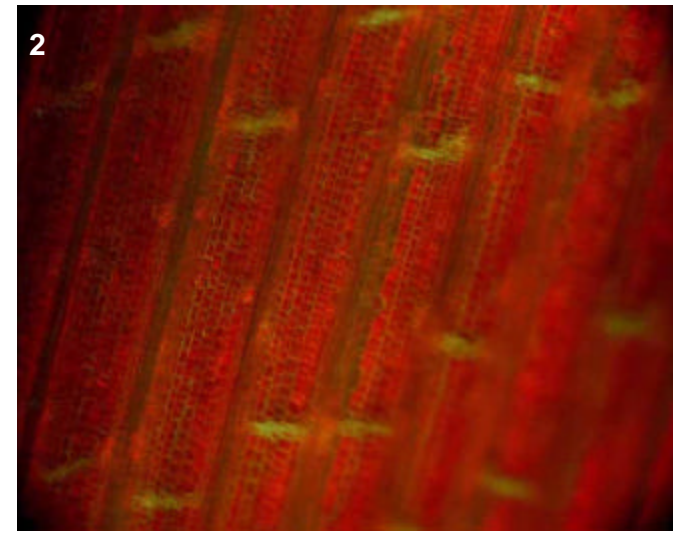
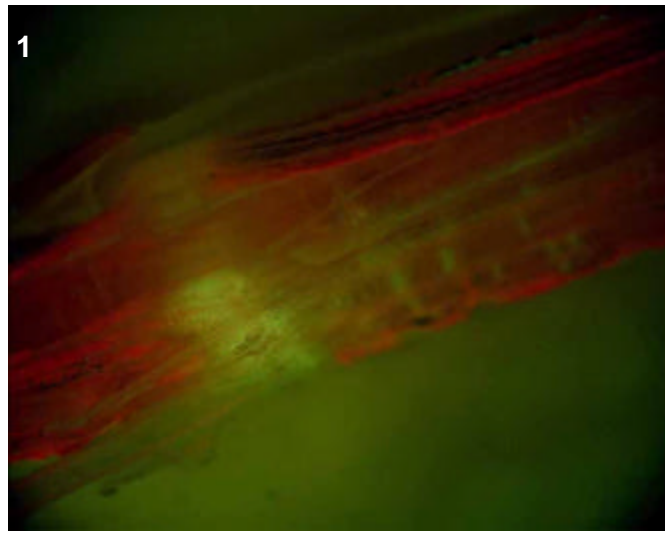
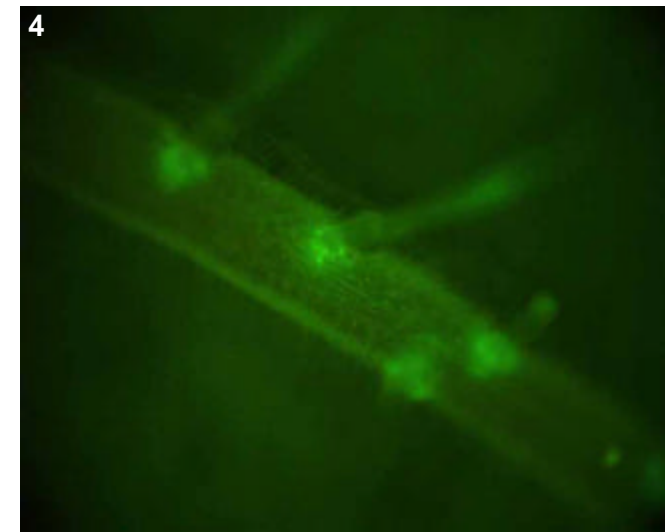
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 55



T0 comments

A partial tetraploid. Collar and surrounding vascular expression as well as patchy expression in the anthers.

T1 seed comments

T1 seedling comments

Expression in the shoot (tips of leaves, scattered stomata) and in root.

Genotype: AOS G07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

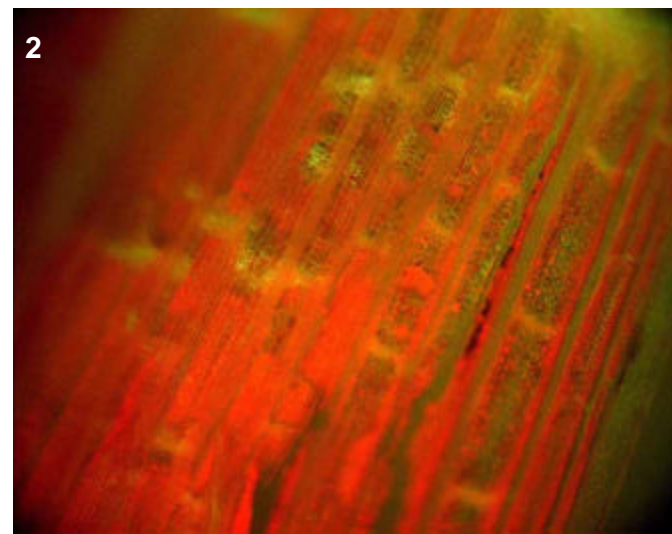
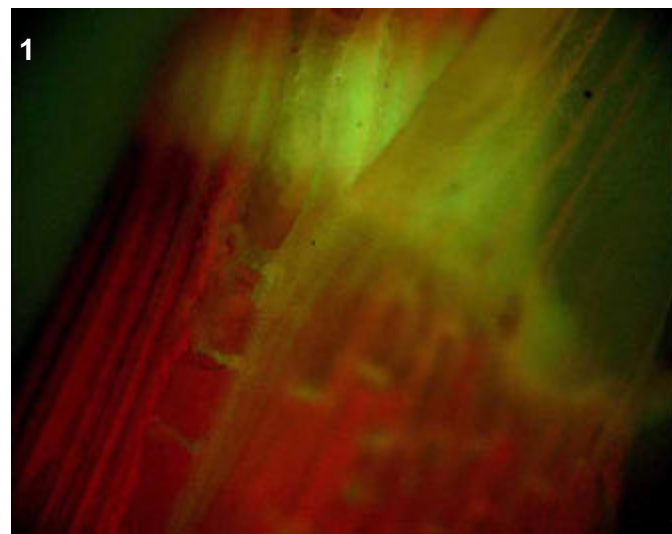
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Plant appeared twisty in the greenhouse. Expression in the collar and surrounding vascular elements, as well as in the lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOS H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

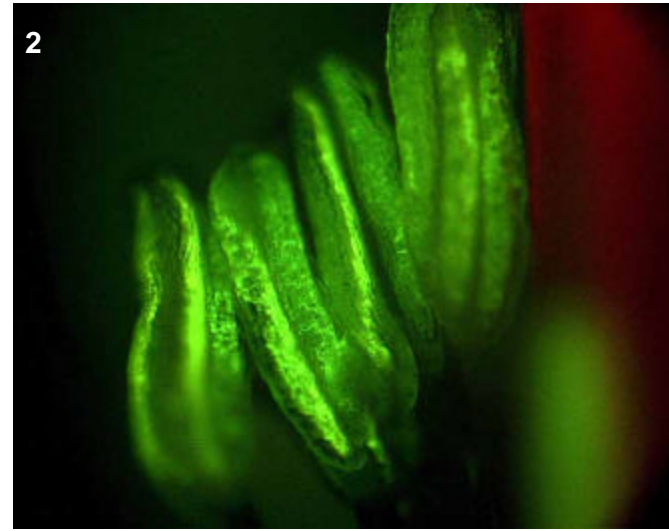
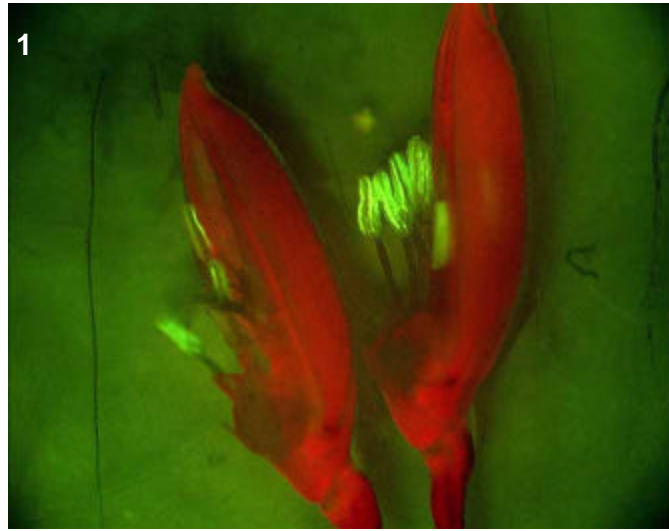
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

"raine" was the comment regarding the greenhouse plant. Very bright expression in anthers of both flowers examined

T1 seed comments

T1 seedling comments

Genotype: AOT A03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

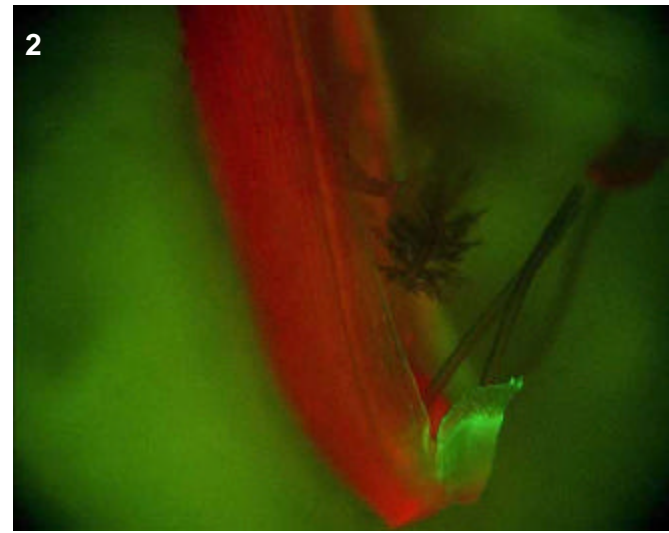
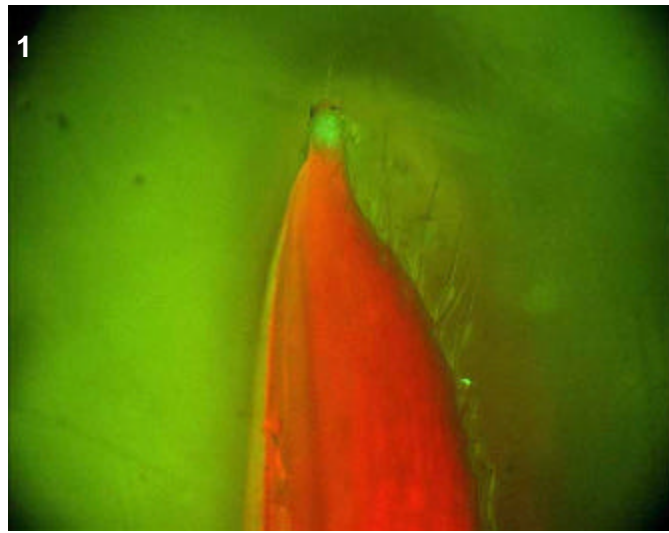
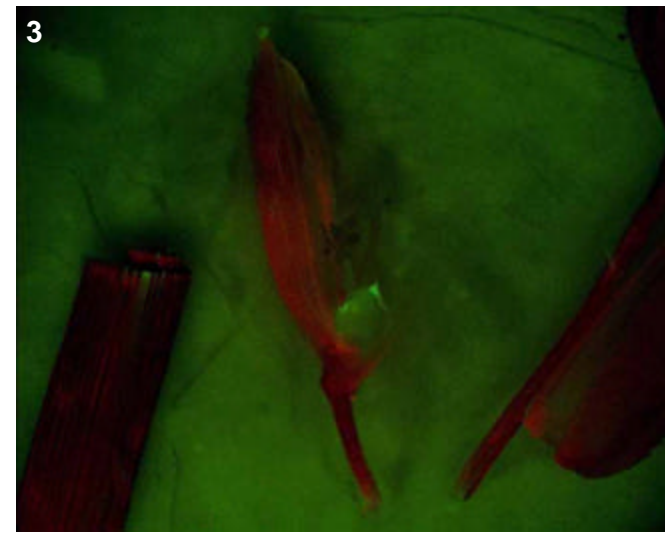
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression is in the tips of the flowers and in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOT A06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-3
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

Collar and sheath vascular, flowers were too old for analysis.

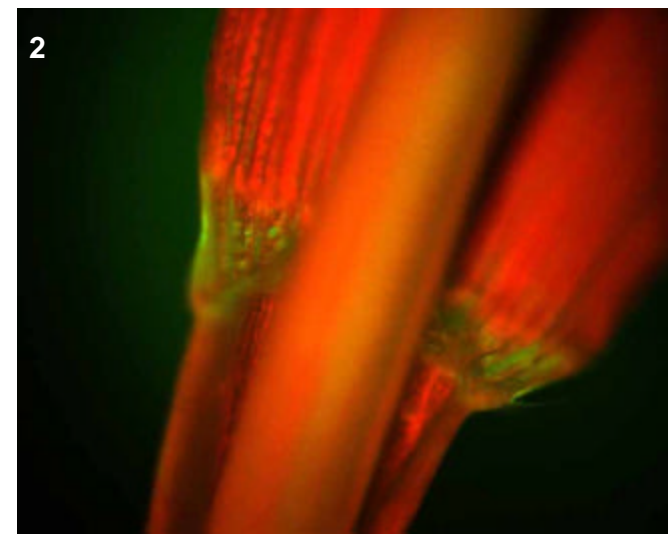
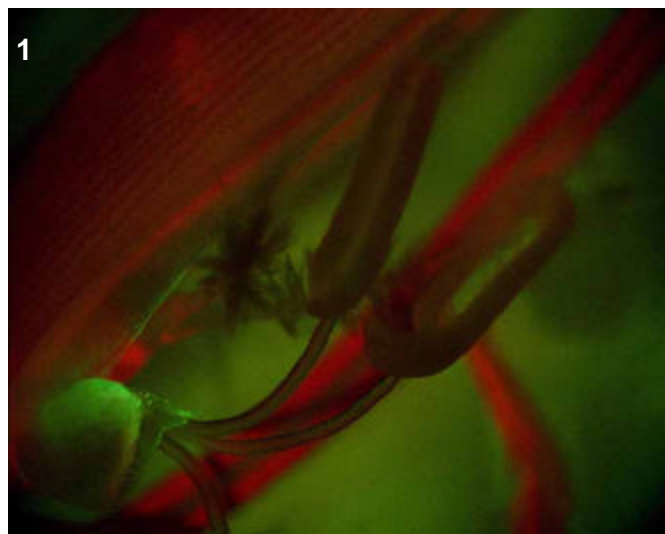
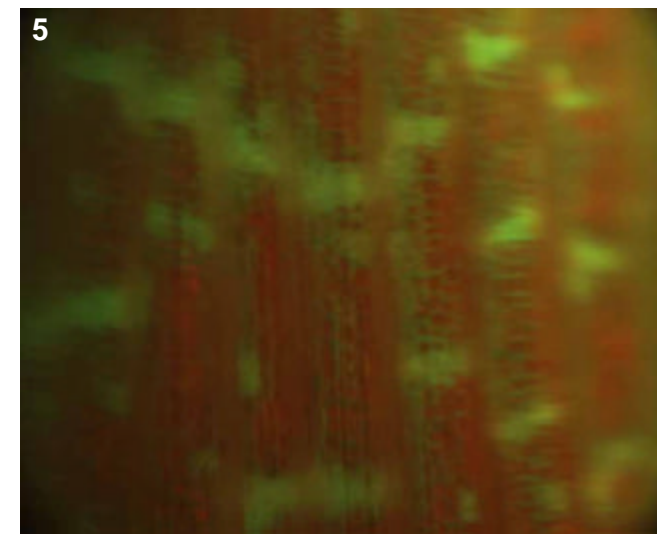
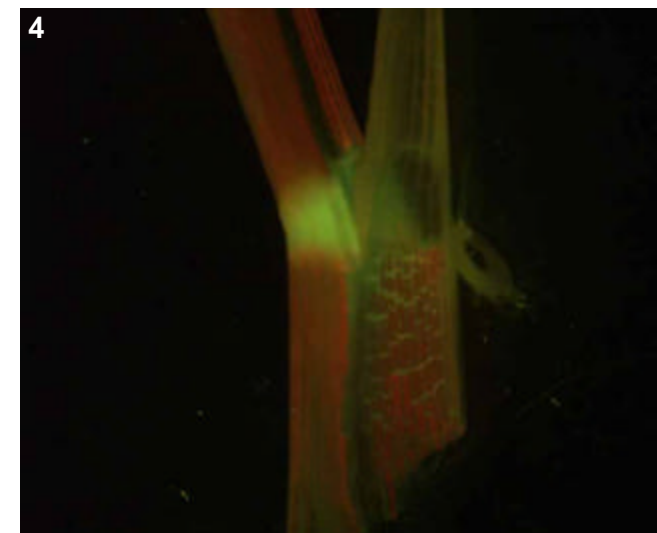
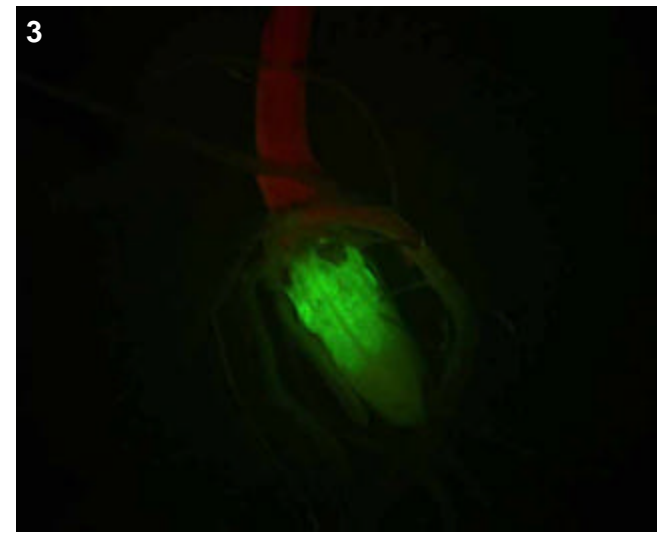
No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 27



T0 comments

One of two flowers had expression in the lodicules and patchy expression in anthers.

T1 seed comments

T1 seedling comments

Bright expression in endosperm and very faint expression in the collar.

Genotype: AOT B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

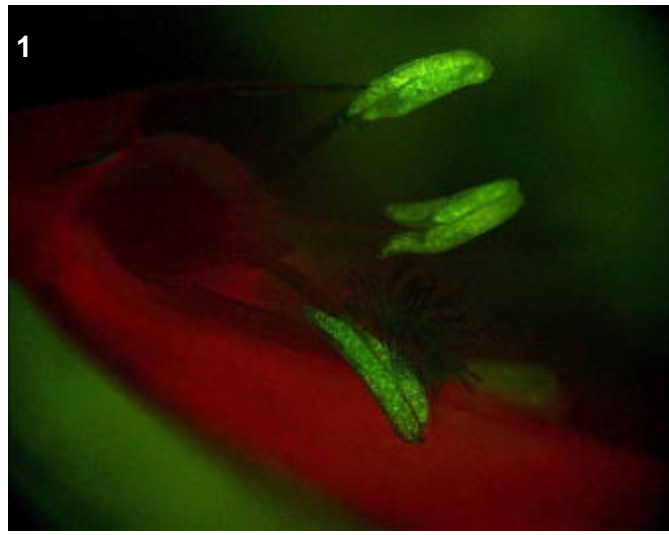
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid that showed bright fluorescence in anthers of one of three flowers examined

T1 seed comments

T1 seedling comments

Genotype: AOT B02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

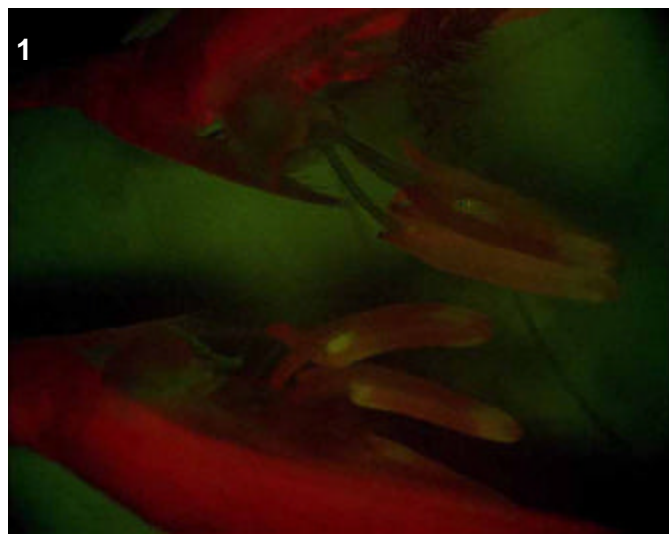
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

tetraploid that shows some expression in the base of carpel and usually in two "patches" at the base and top of each anther

T1 seed comments

T1 seedling comments

Genotype: AOT E12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

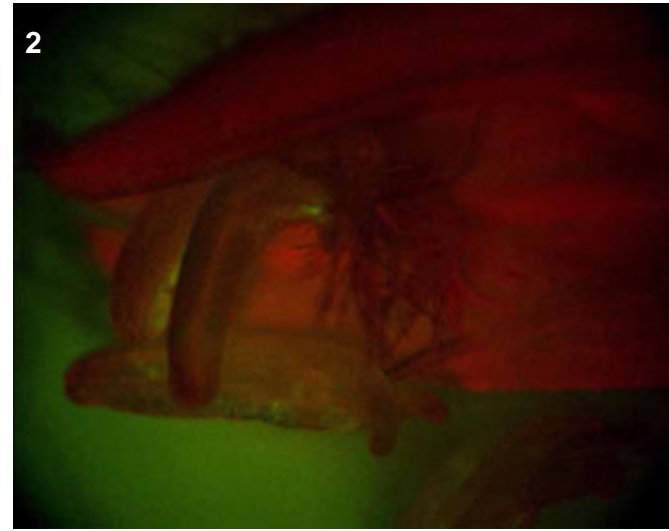
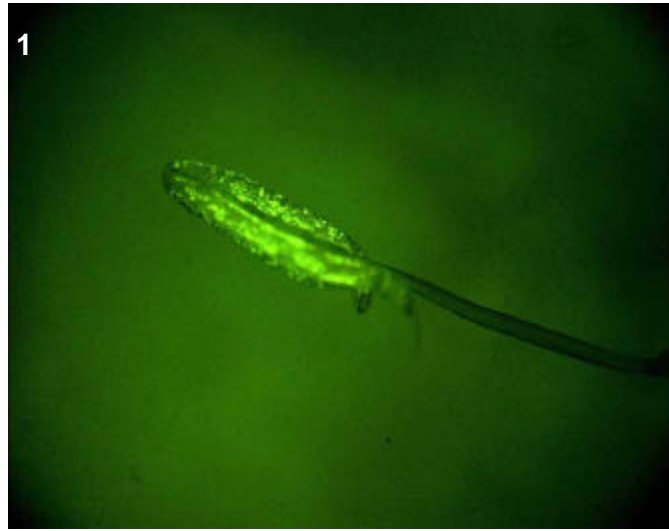
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Rather patchy expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOT F03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

tetraploid showing fluorescence near base of flower and in sheath, took no pictures

T1 seed comments

T1 seedling comments

Genotype: AOT G01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

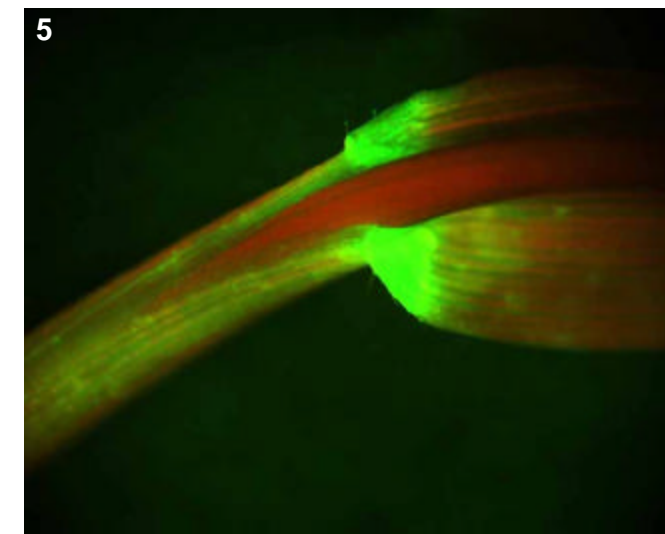
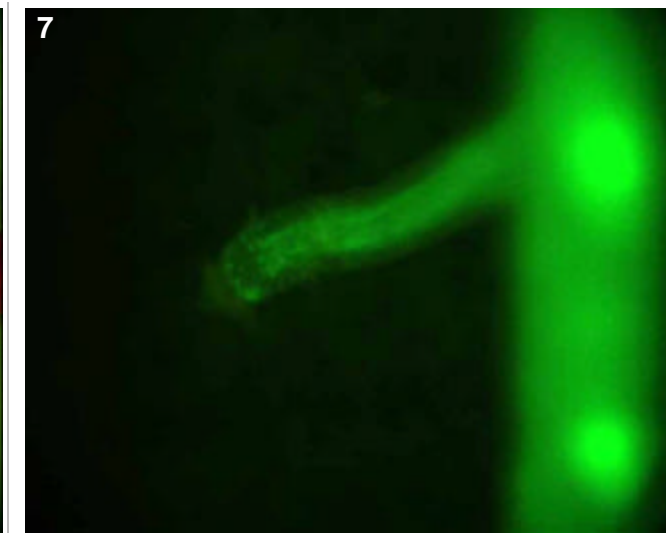
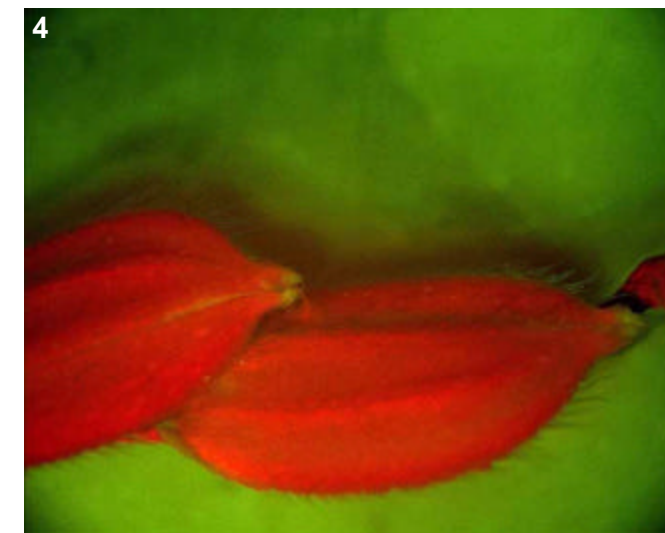
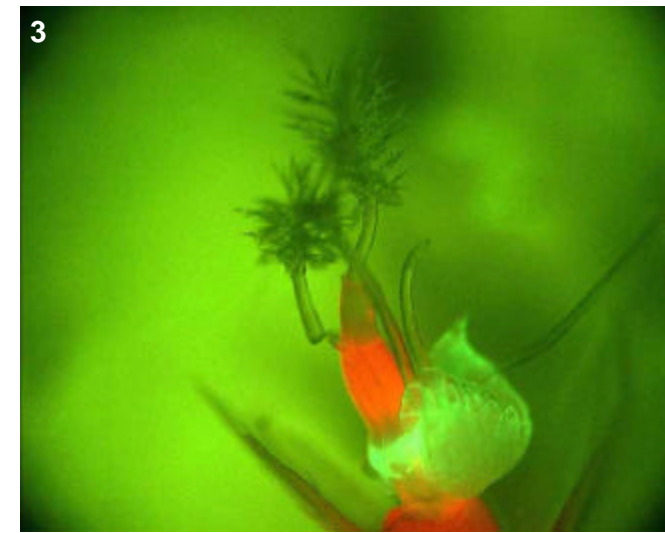
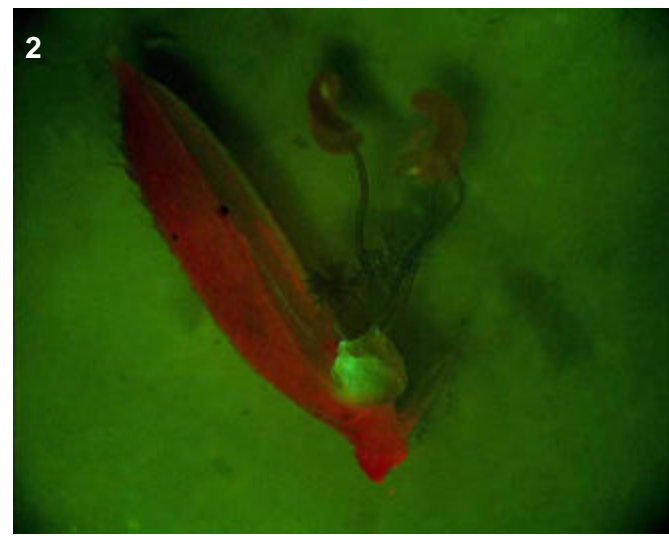
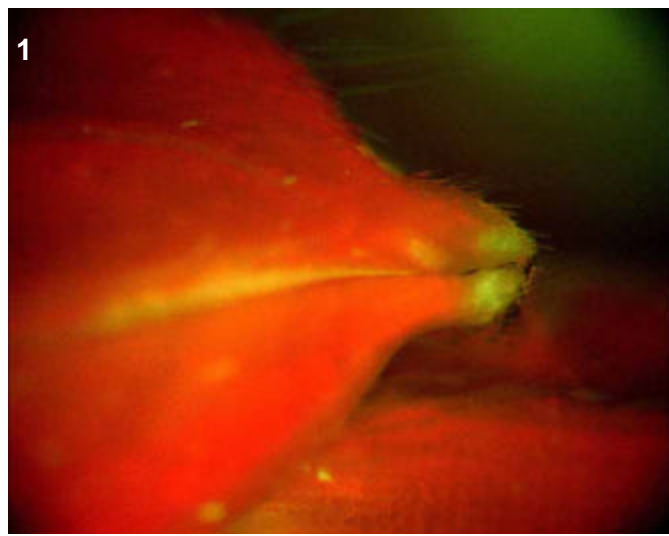
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 90



T0 comments

Bright GFP observed at tips of all three flowers, and in the rachilla/lopicule region. Also some patchy expression seen in the anthers.

T1 seed comments

Scutellum expression observed (1/5).

T1 seedling comments

Seedlings show bright expression in the collar, shoot vascular, root vascular and lateral roots.

Genotype: AOT G04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

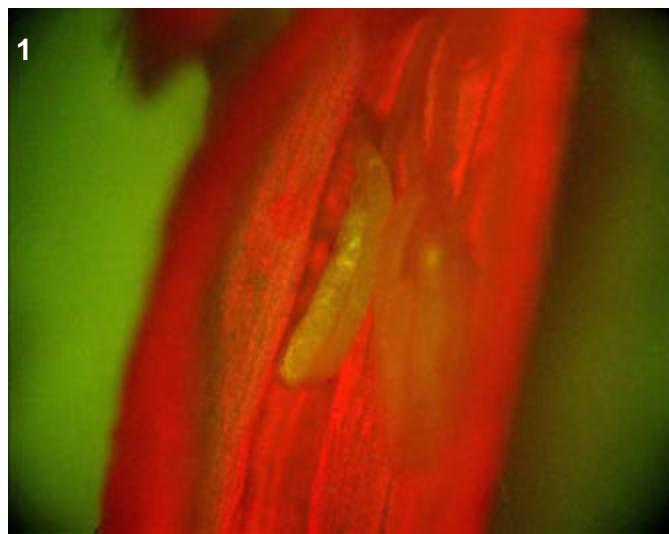
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

tetraploid that showed some GFP expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOT H02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

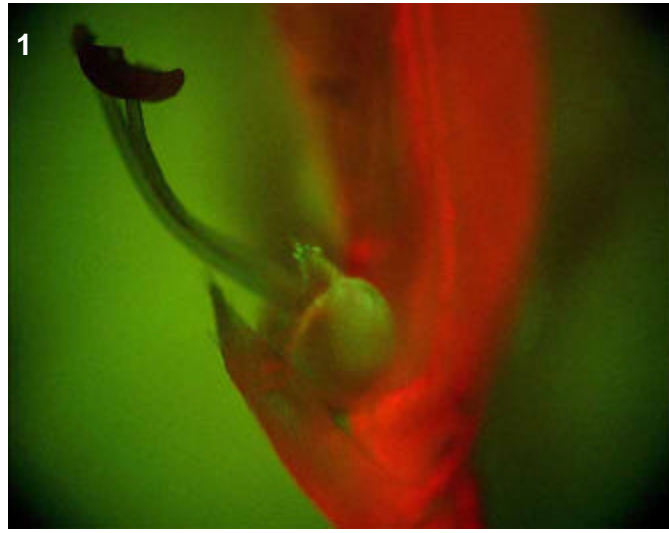
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Fluorescence near base of flower.

T1 seed comments

T1 seedling comments

Genotype: AOU A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

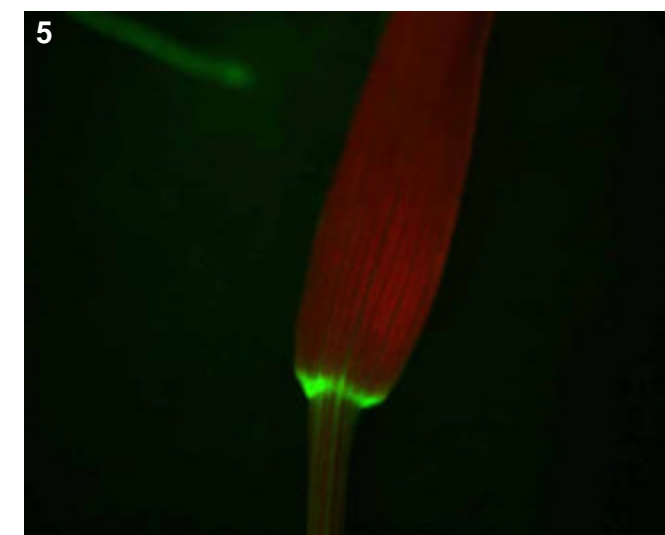
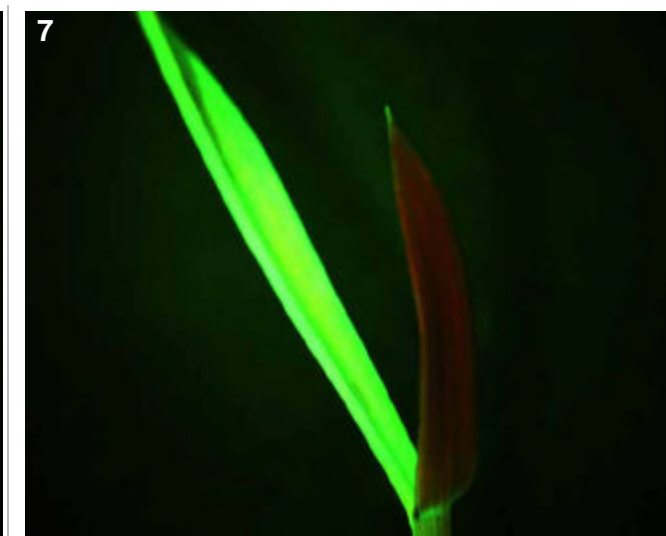
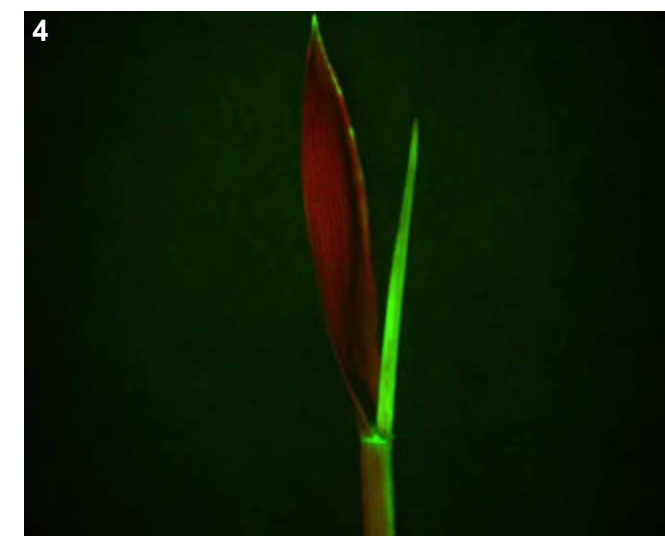
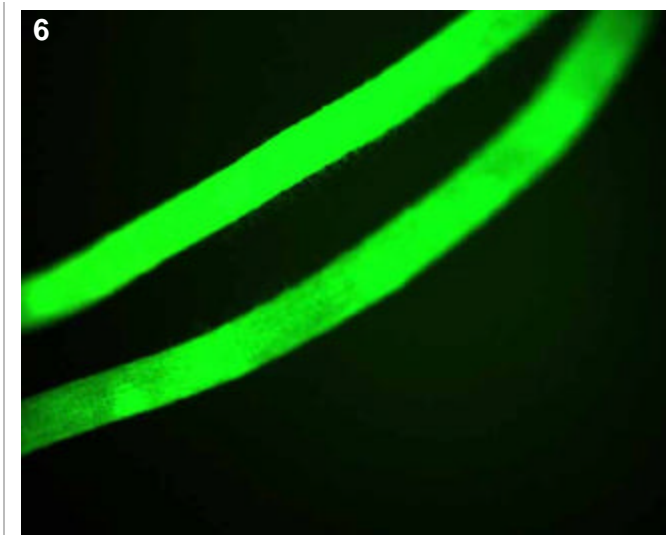
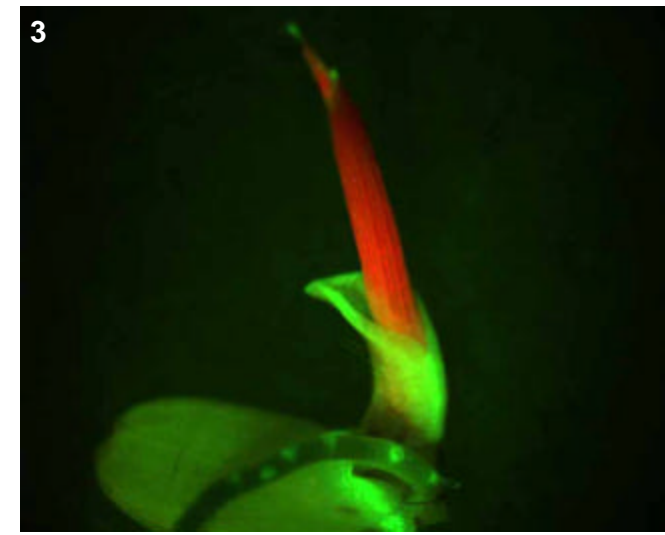
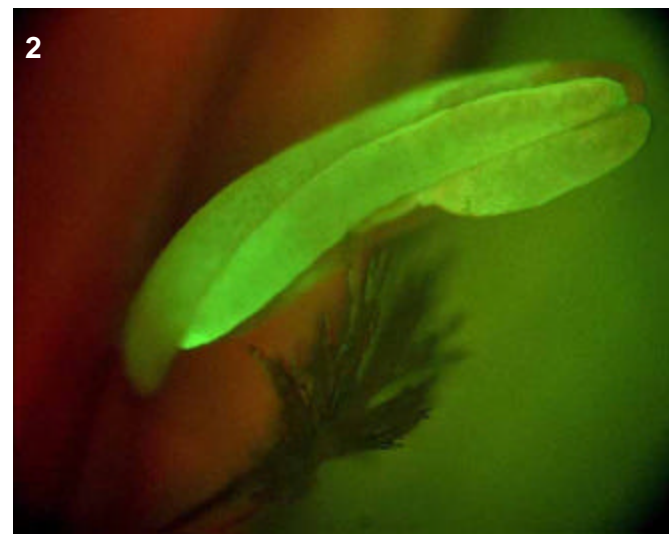
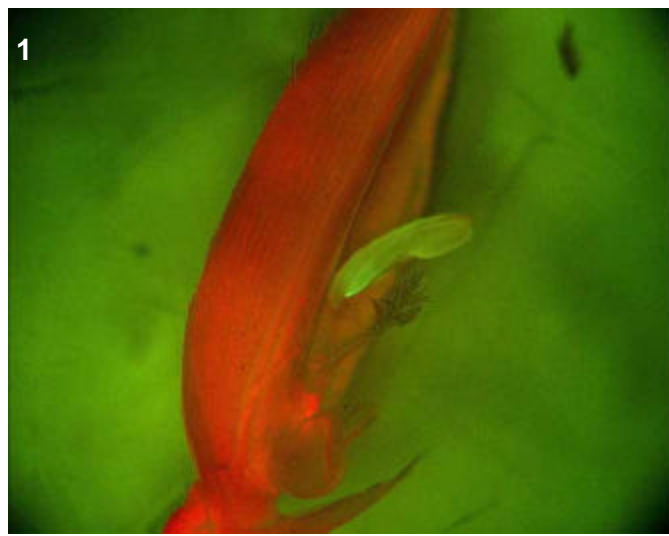
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 4



T0 comments

Most anthers showed this GFP expression throughout the entire organ. Seems less bright yet more continuous than the other anther-specific lines.

T1 seed comments

Four of five seeds had expression.

T1 seedling comments

Four days after germination, expression in many places such as leaf vascular, coleoptile, general root and lateral roots, and scutellum. One week post-germination, still very bright expression everywhere, emerging second leaf is almost entirely GFP positive.

Genotype: AOU B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

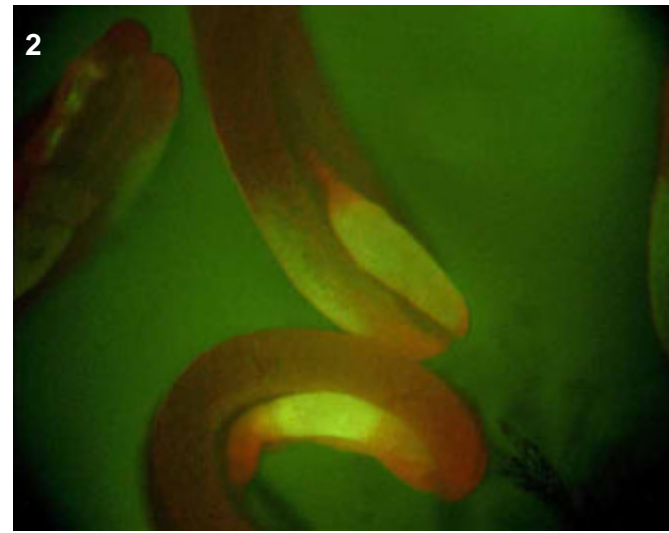
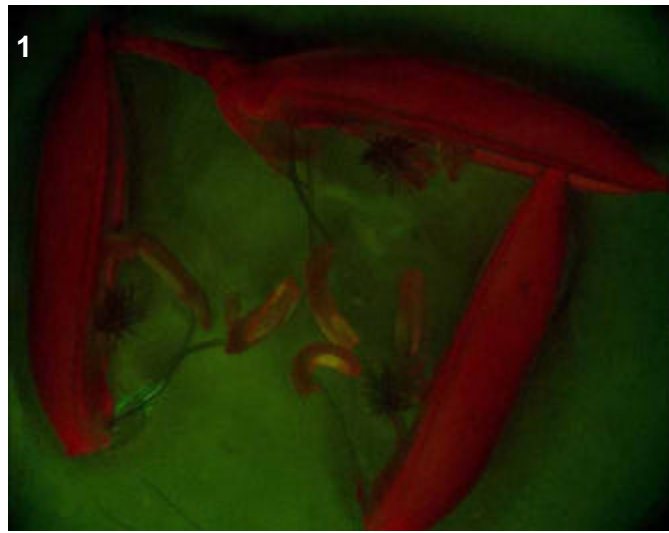
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Patchy expression in anthers, perhaps expression in lodicules although only observed for one of the three flowers.

T1 seed comments

T1 seedling comments

Genotype: AOU B03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

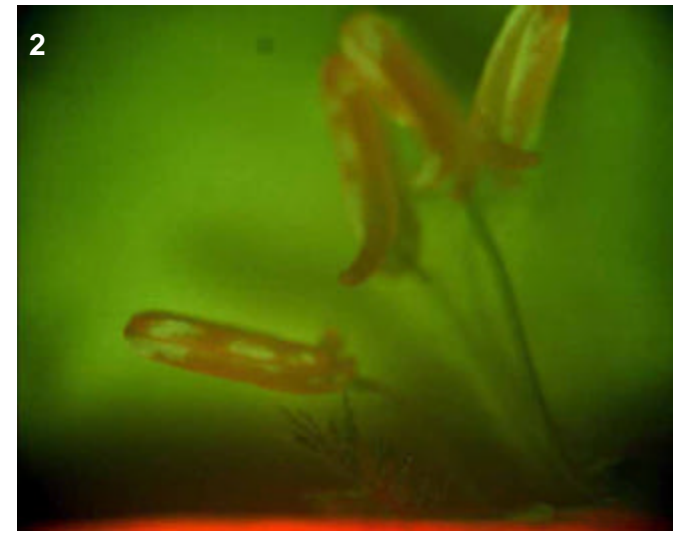
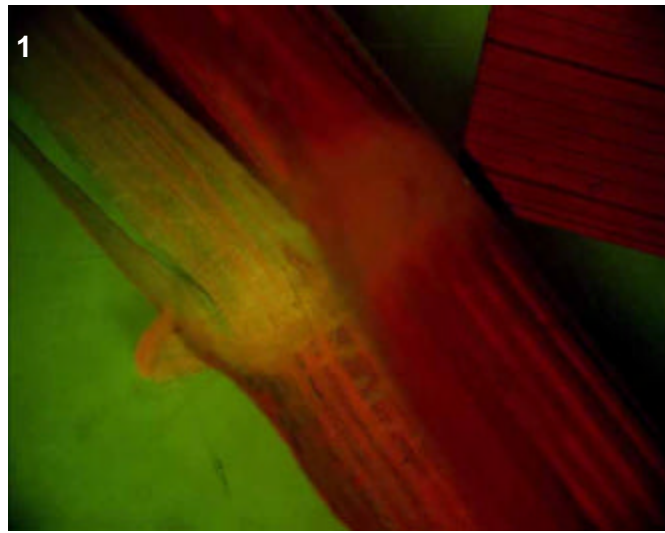
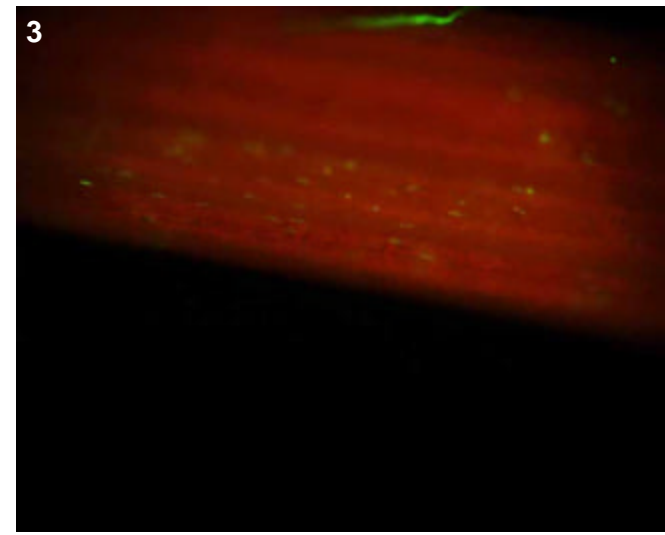
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 159



T0 comments

Some GFP in sheath and leaf vascular, patches in the anthers.

T1 seed comments

T1 seedling comments

Shoot stomata GFP-positive in seedlings.

Genotype: AOU B06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

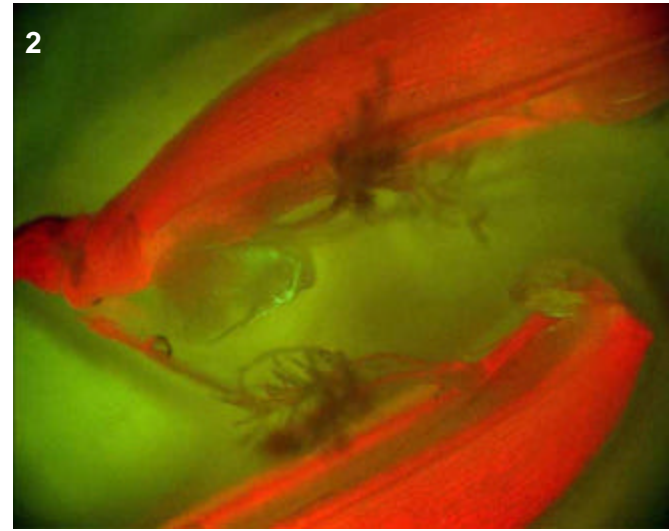
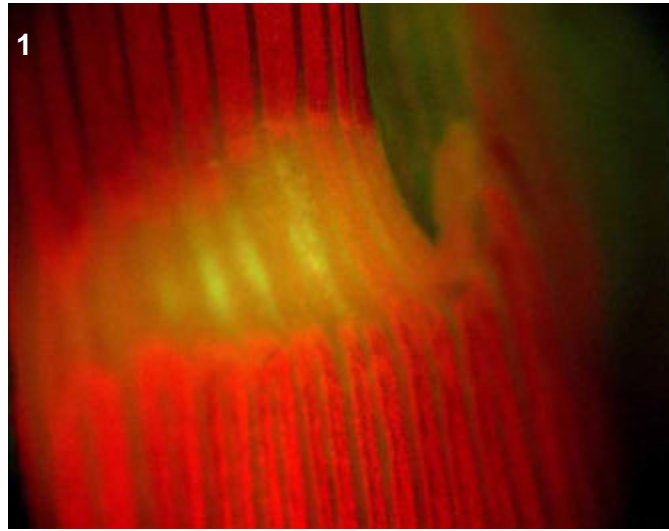
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A moderate vascular expression line. Expression in the sheath, perhaps expression in tips of flowers (no pic taken) as well as in the lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOU C05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

small grains, twisted stems, perhaps some GFP near base of flower but difficult to tell

T1 seed comments

T1 seedling comments

Genotype: AOU C09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1-2

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

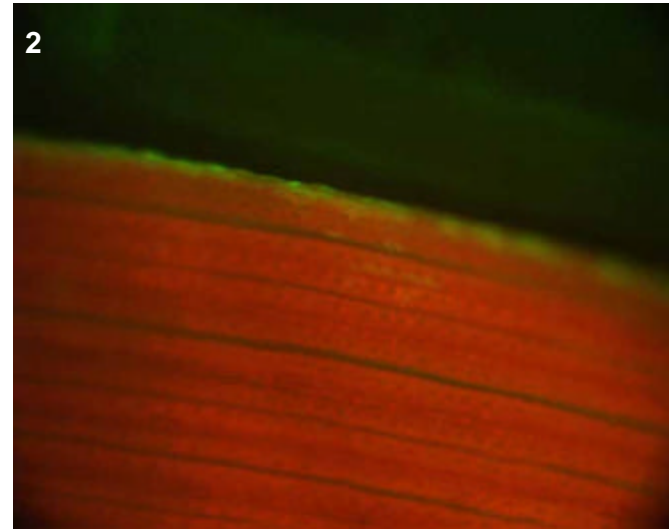
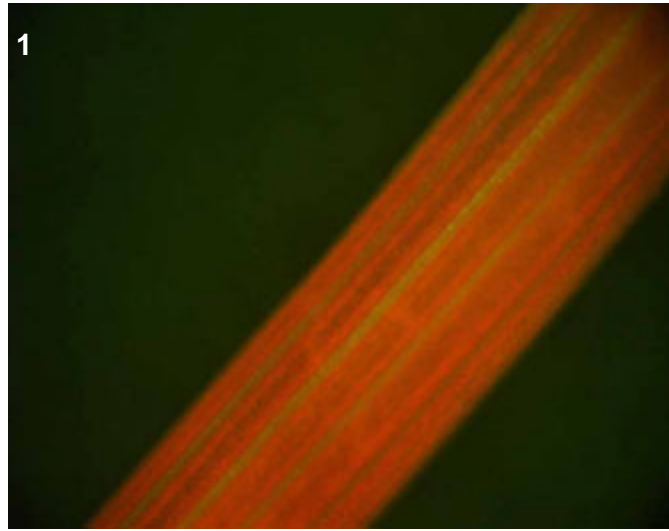
New pattern:

No GFP detected

T1 in greenhouse?
YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 173



T0 comments

T1 seed comments

T1 seedling comments

Perhaps weak shoot vascular in T1.

Genotype: AOU D06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

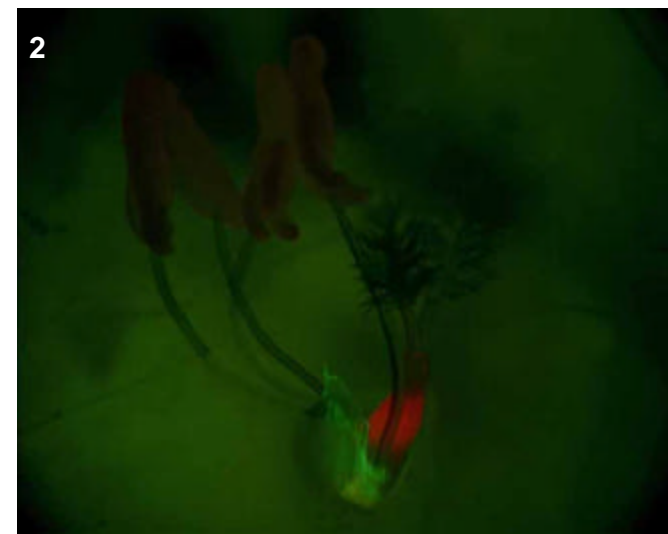
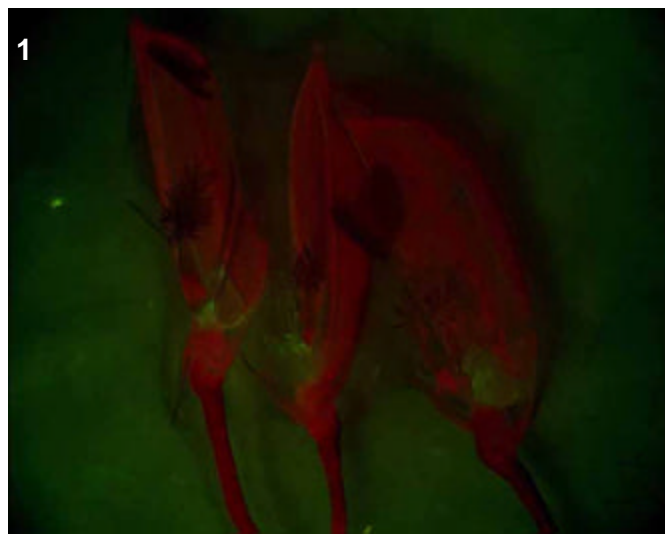
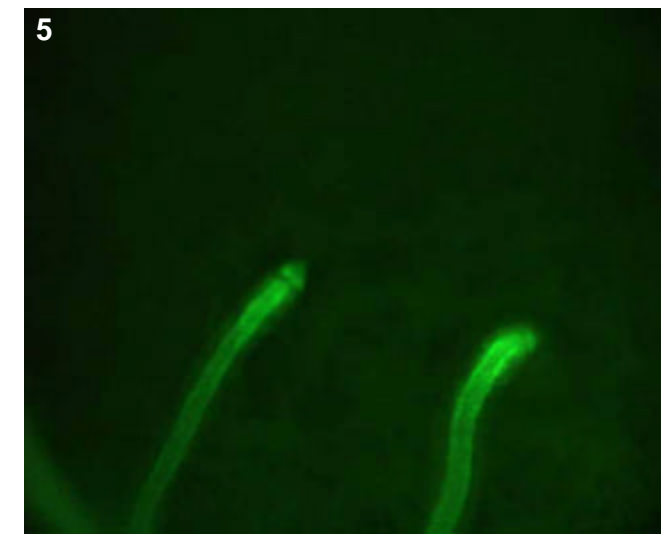
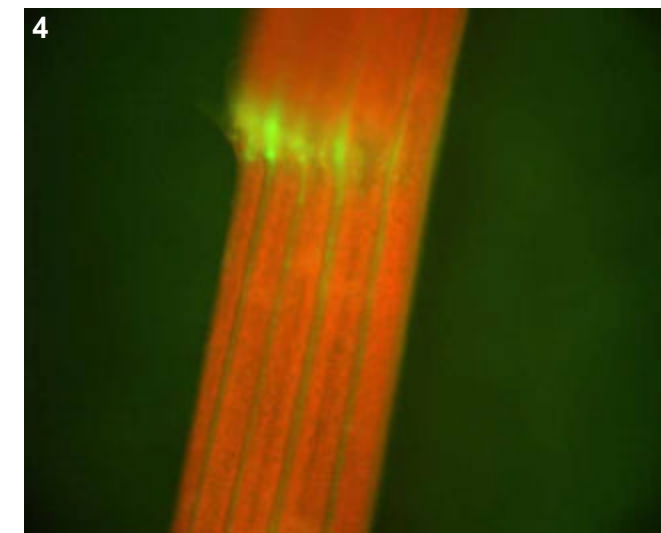
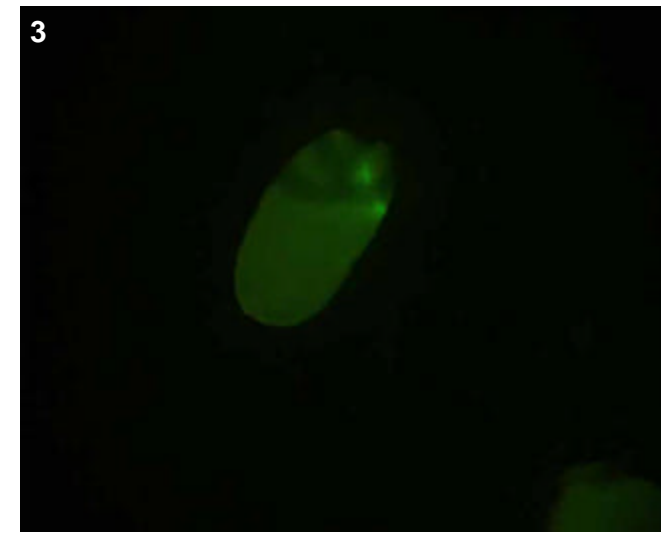
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 39



T0 comments

Expression is bright, consistent and in the lodicules of flower.

T1 seed comments

T1 seedling comments

Expression noted in collar and lateral roots.

Genotype: AOU G09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

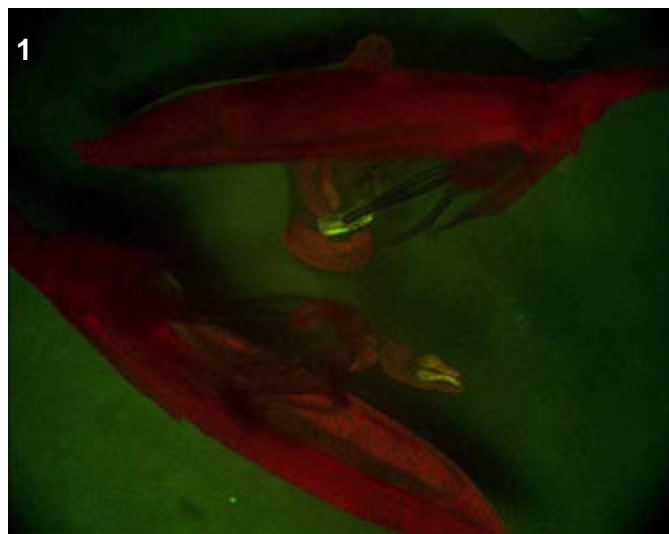
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

small and wrinkled leaves. Three flowers examined, all of them contained at least one glowing anther.

T1 seed comments

T1 seedling comments

Genotype: AOU H06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

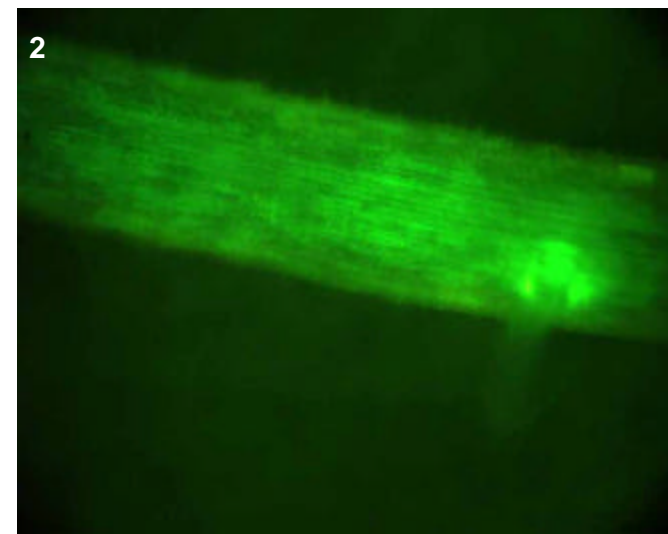
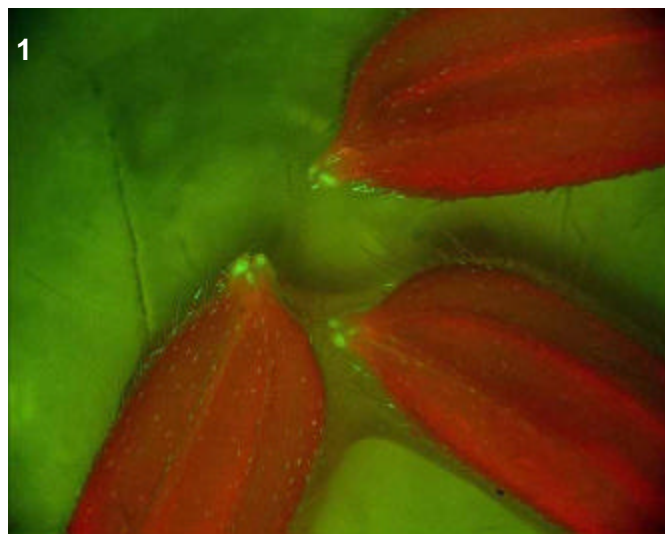
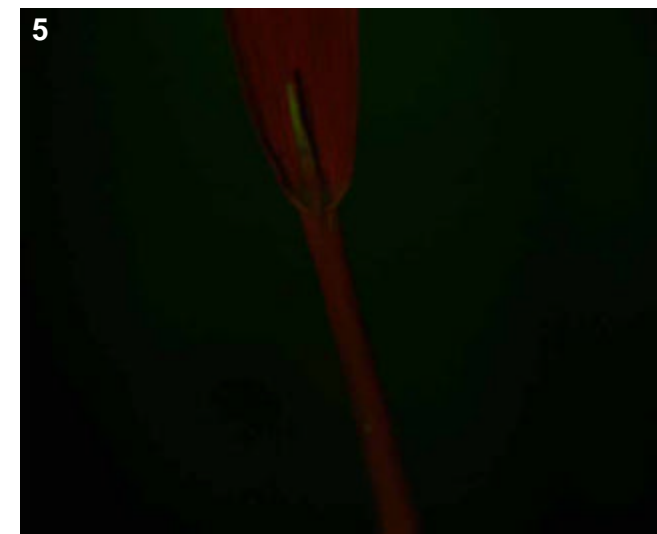
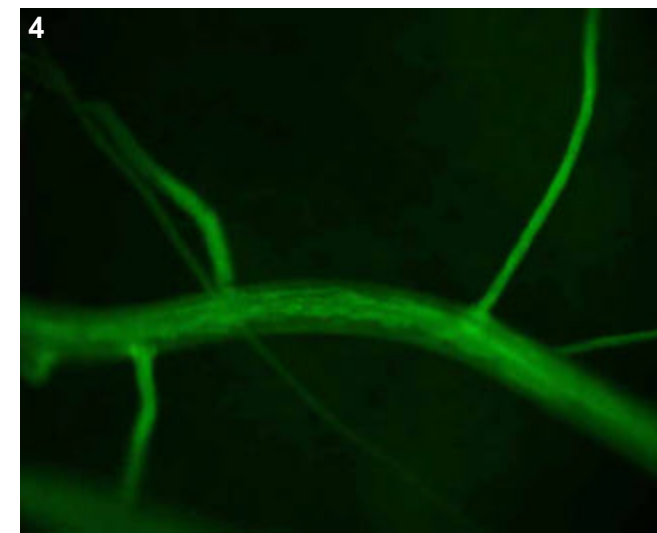
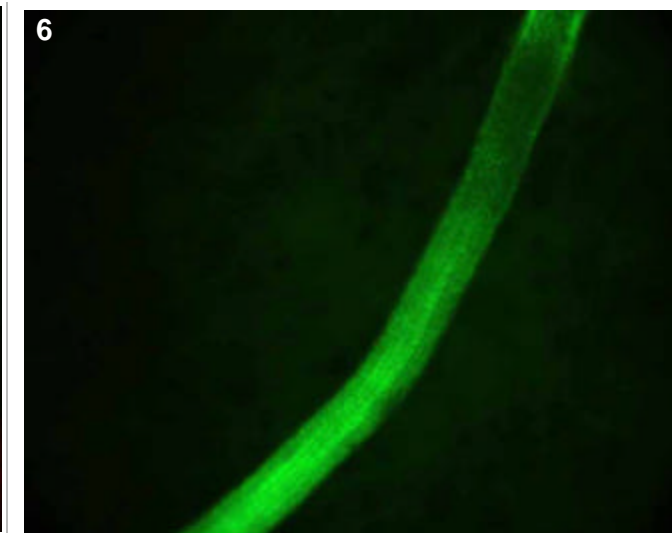
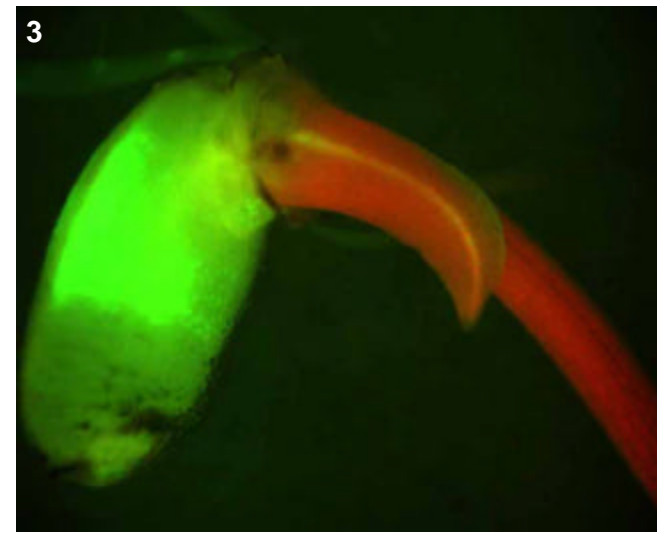
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 0



T0 comments

The flowers show 3 distinct spots at the top of flower (indicative of vascular activity?). Also GFP in trichomes on lemma and palea.

T1 seed comments

T1 seedling comments

Four days post-germination (3/5 seedlings) expression noted in vascular of coleoptile, and in general throughout the radicle with expression concentrated around lateral roots. Root expression same after one week, but now more faint expression also detected in collar and tips of new leaf.

Genotype: AOV B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

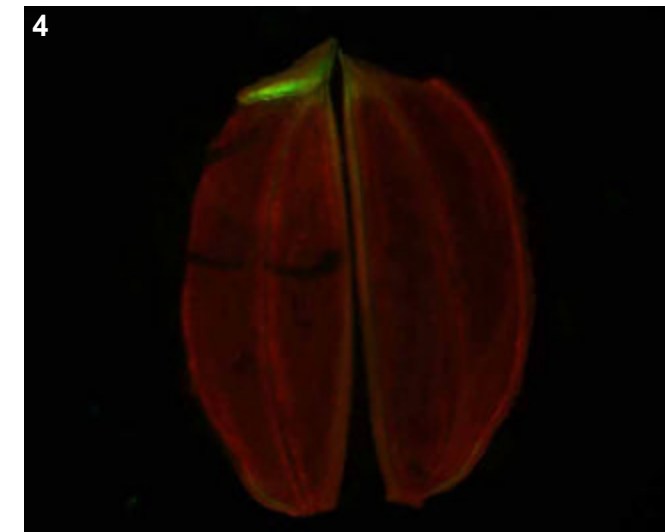
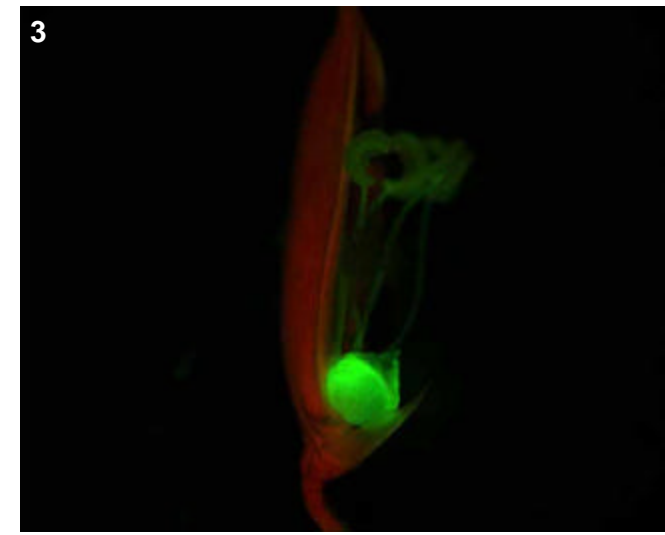
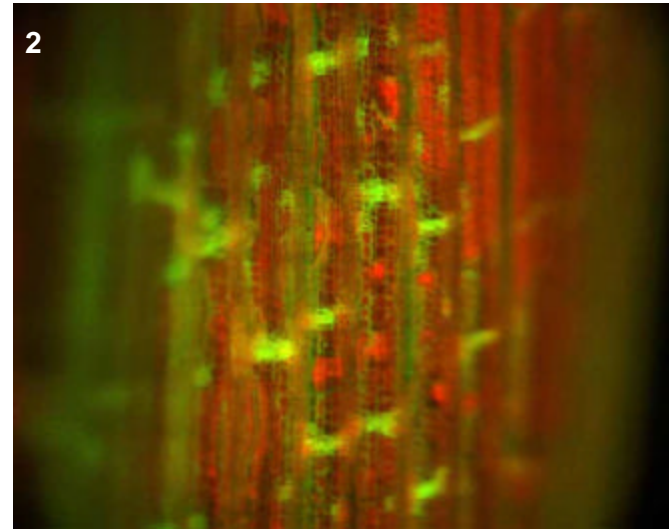
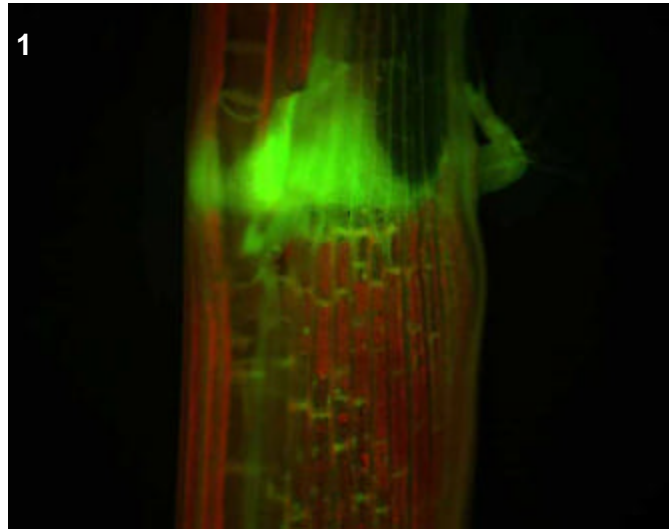
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in several areas: collar, sheath vascular, floral vascular (near tips), lodicules and some in anther filaments.

T1 seed comments

T1 seedling comments

Genotype: AOV D06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

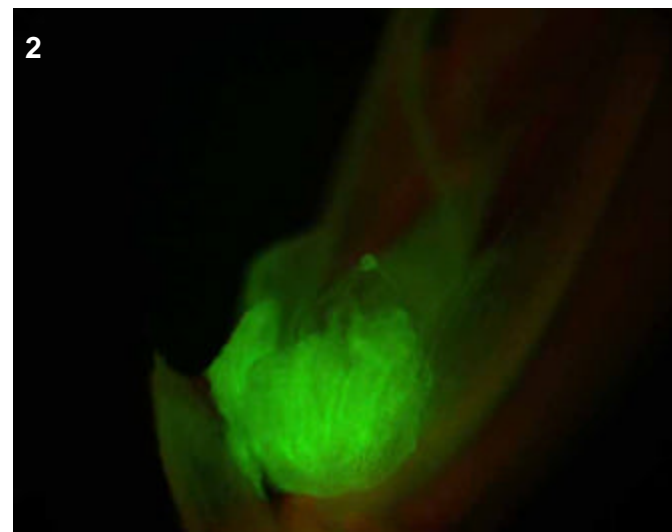
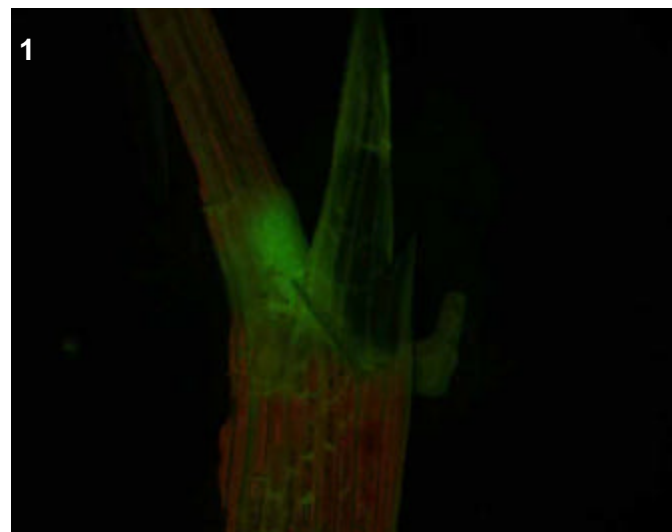
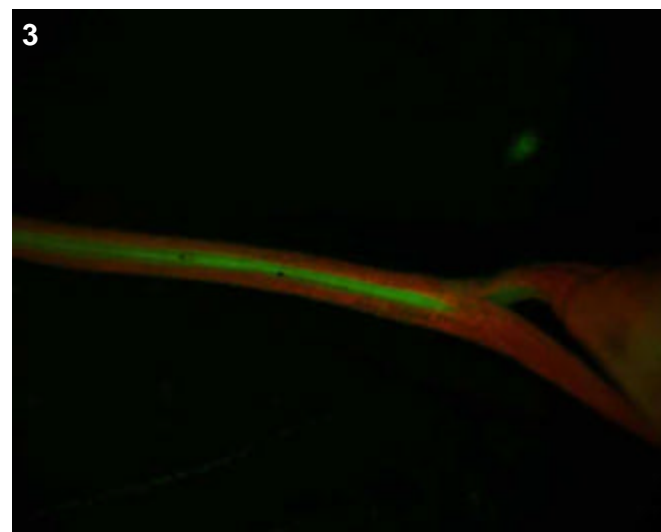
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Weak collar and sheath vascular. Strong expression in lodicules and pedicel vascular. Perhaps floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOV D11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

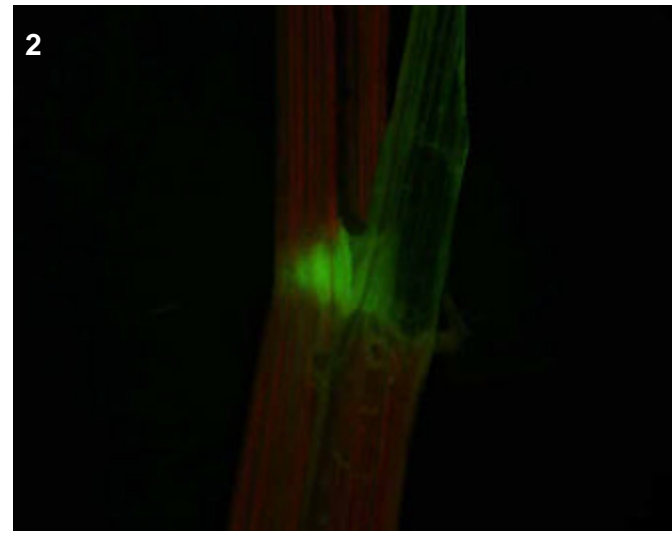
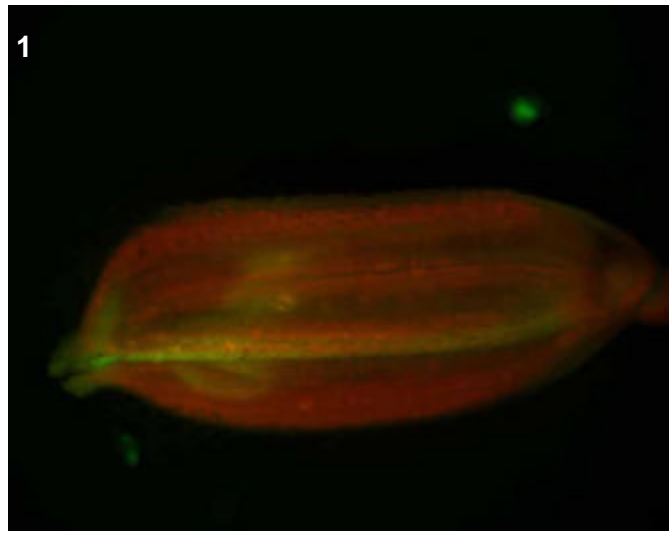
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Very small plant in the greenhouse. Expression in collar and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOV E06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

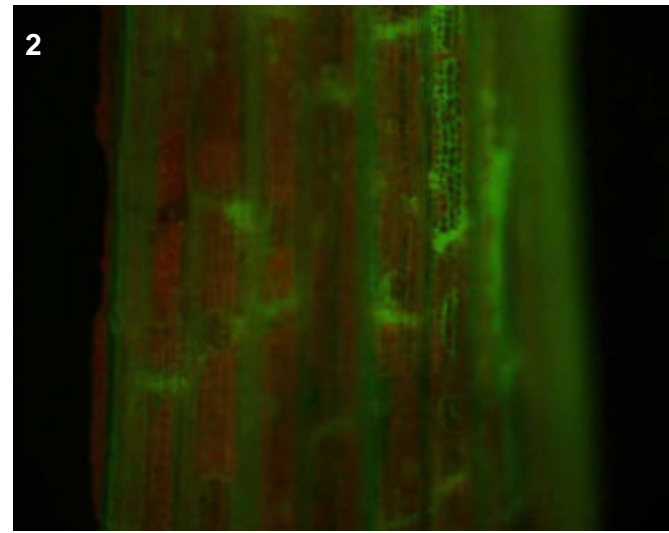
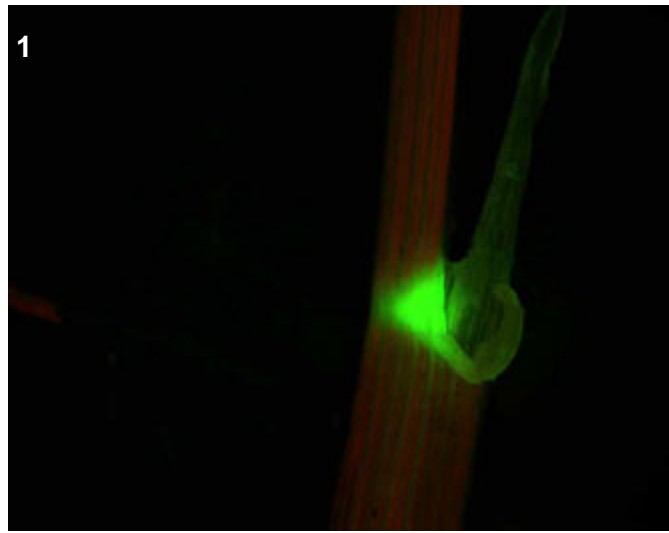
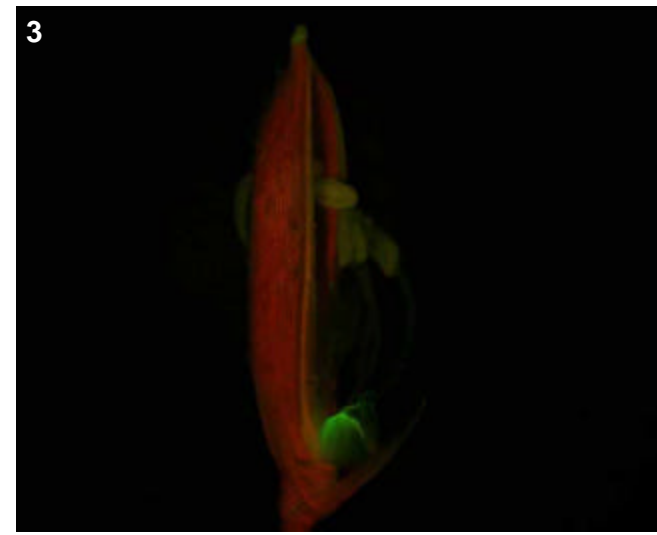
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Bright expression in collar, sheath vascular, lodicules and tips of flower (indicating vascular I think).

T1 seed comments

T1 seedling comments

Genotype: AOV E11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

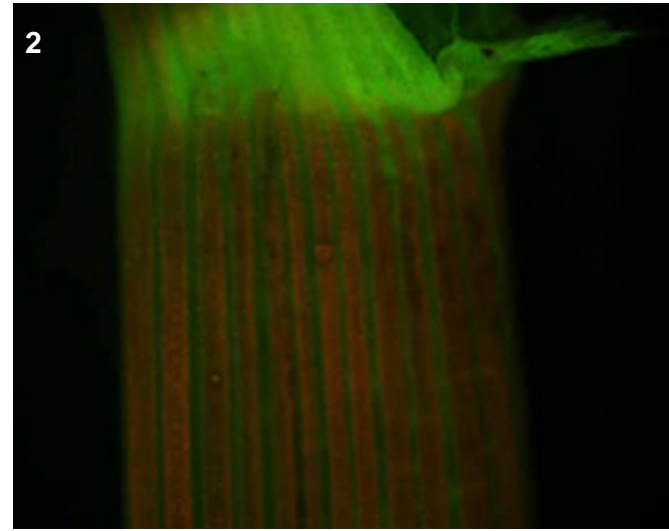
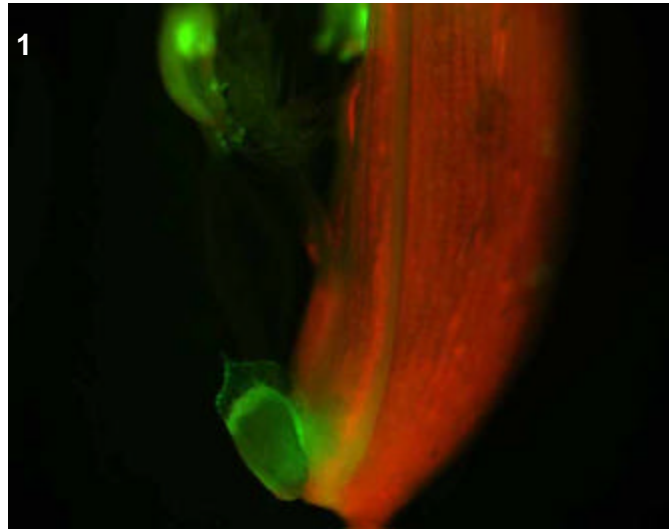
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Faint expression in collar but more in the vascular on the outside area of sheath near the collar. Also expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOV F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

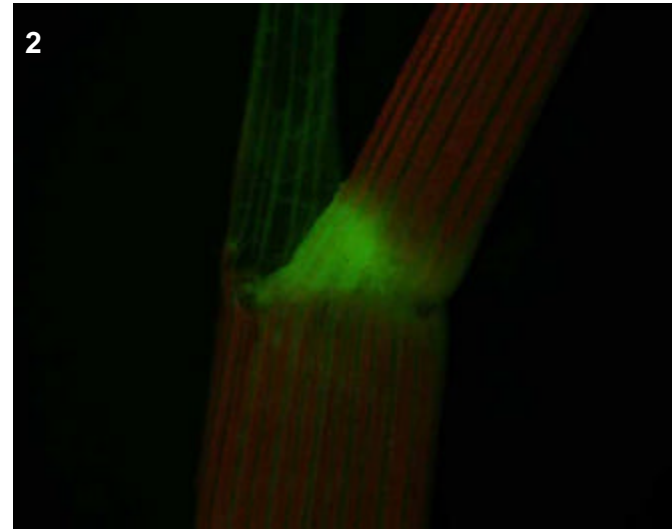
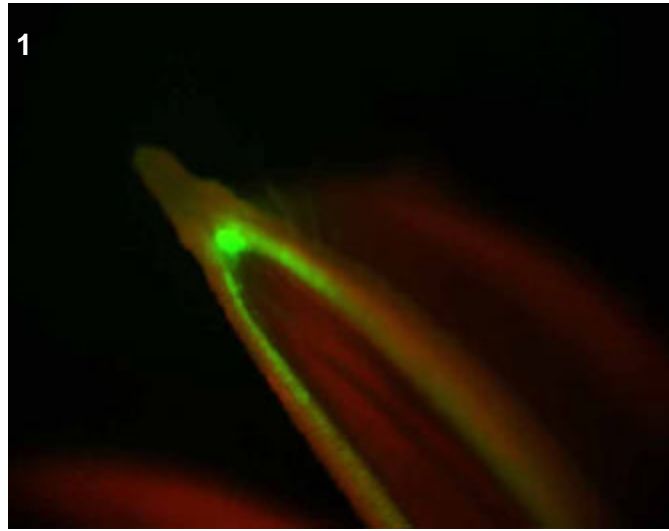
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in the collar and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOV H01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

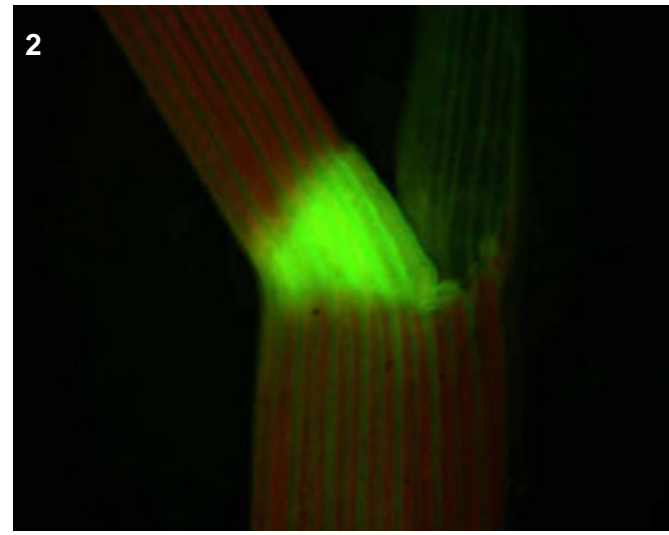
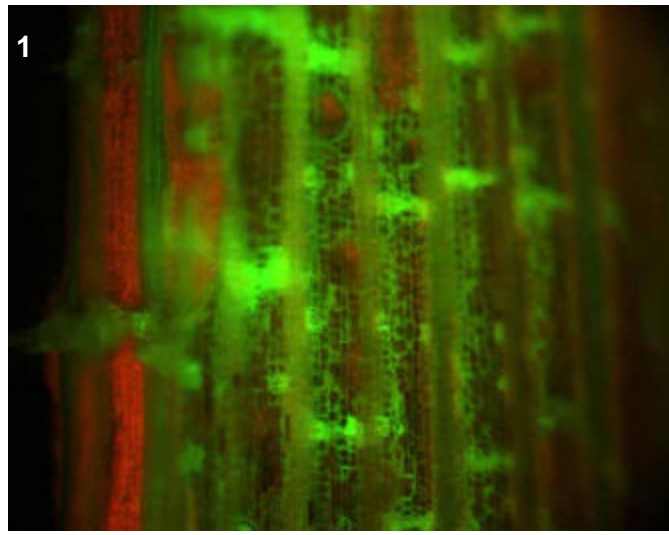
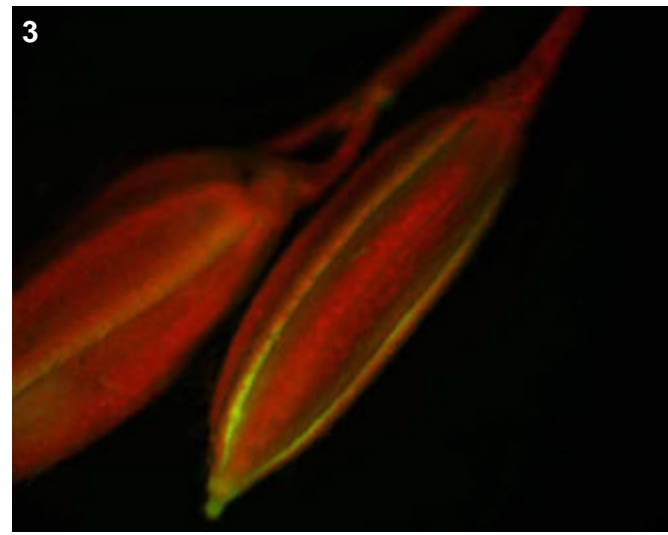
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression in collar, sheath vascular and floral vacular.

T1 seed comments

T1 seedling comments

Genotype: AOV H06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

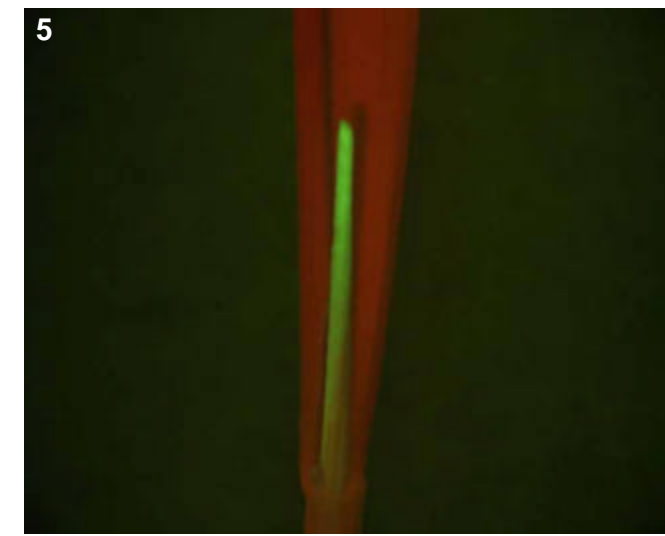
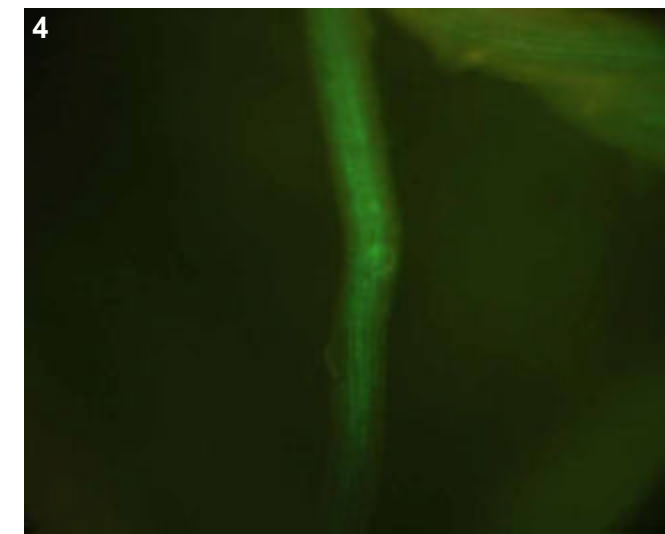
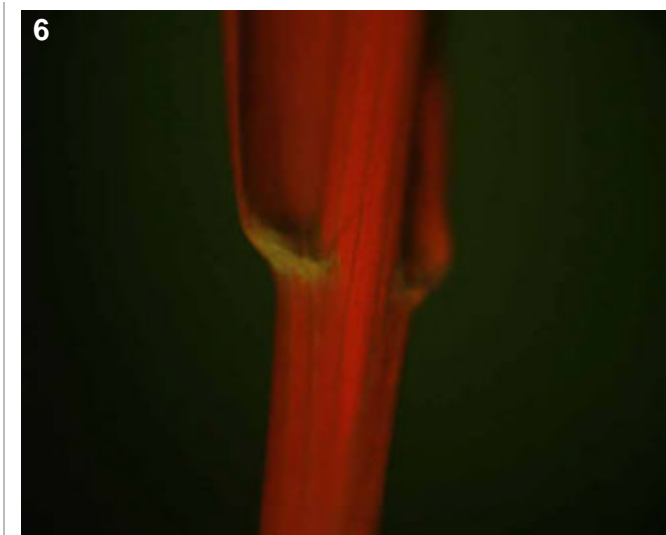
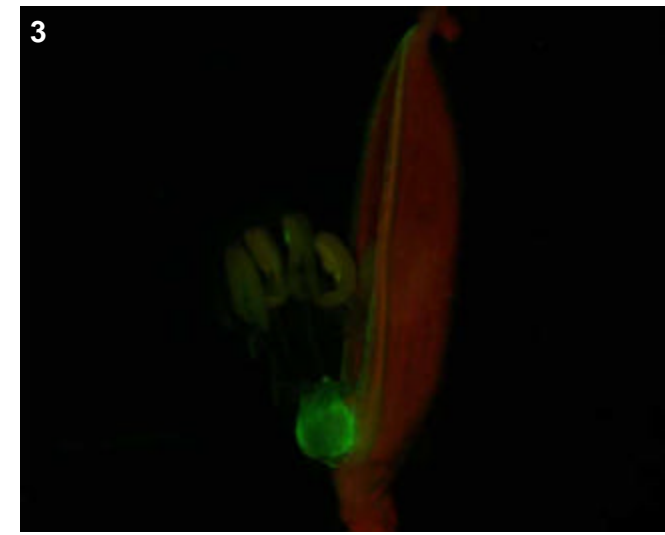
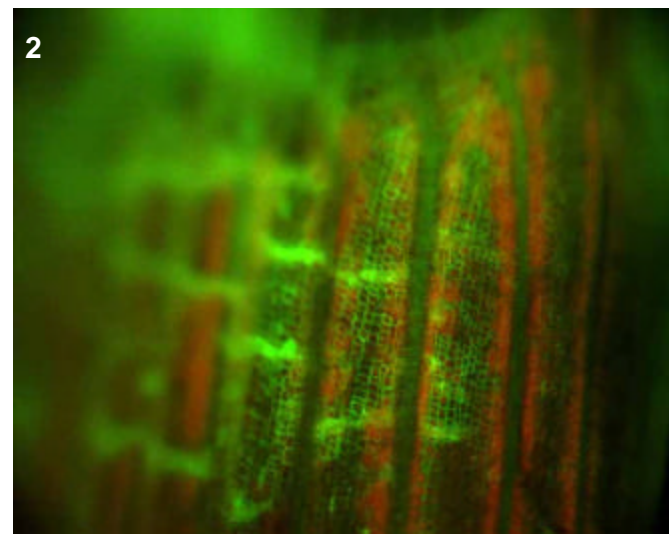
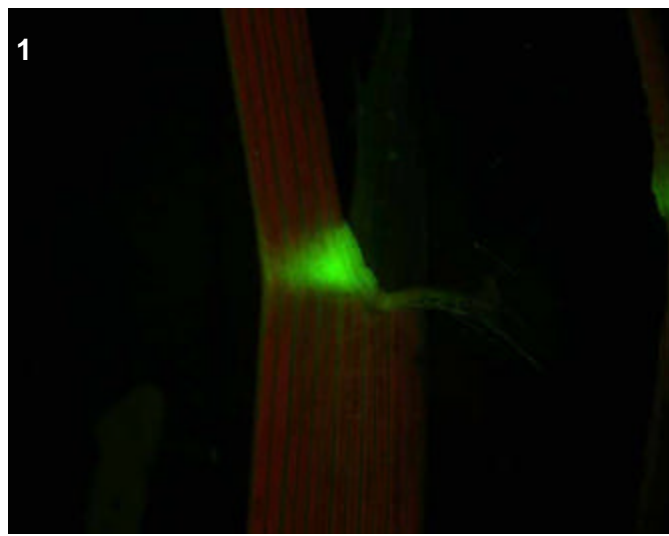
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal? YES

Number T2 seed produced: 11



T0 comments

Expression bright in collar, sheath vascular and lodicules.

T1 seed comments

T1 seedling comments

Two plants were GFP+ in the lateral roots (root vascular). Interesting in that it was only in the older portions of the root. Good for confocal? One of the plants had expression in collar, while the other had a very bright emerging second leaf.

Genotype: AOV H09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

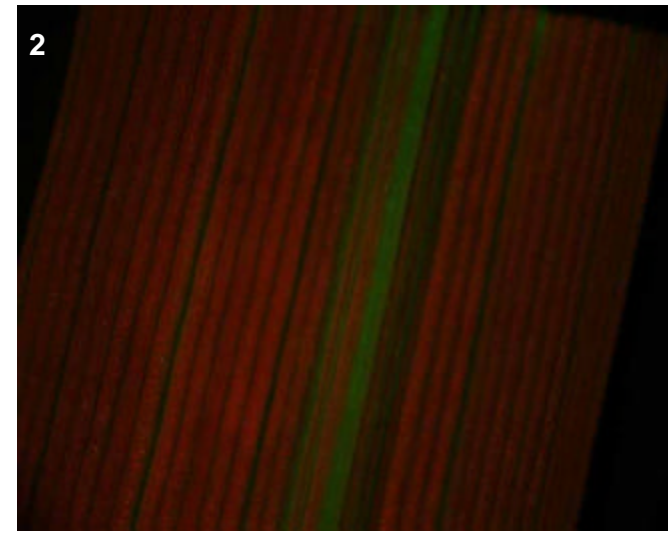
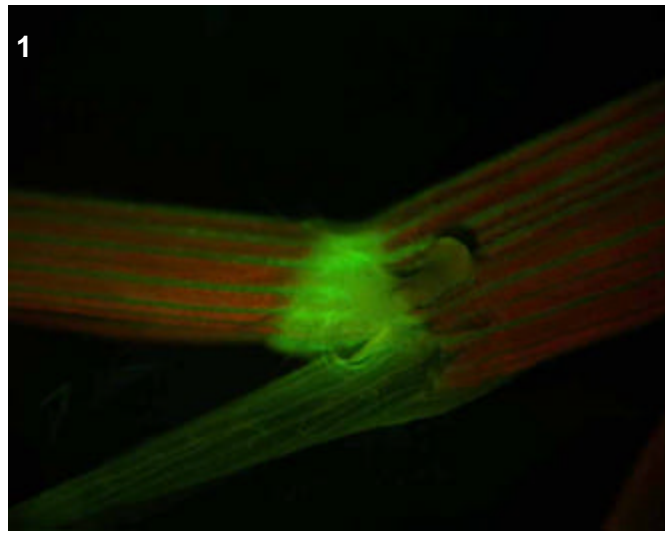
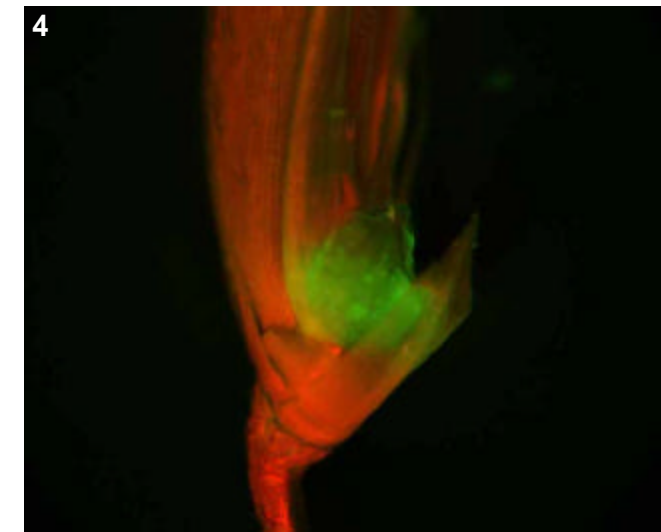
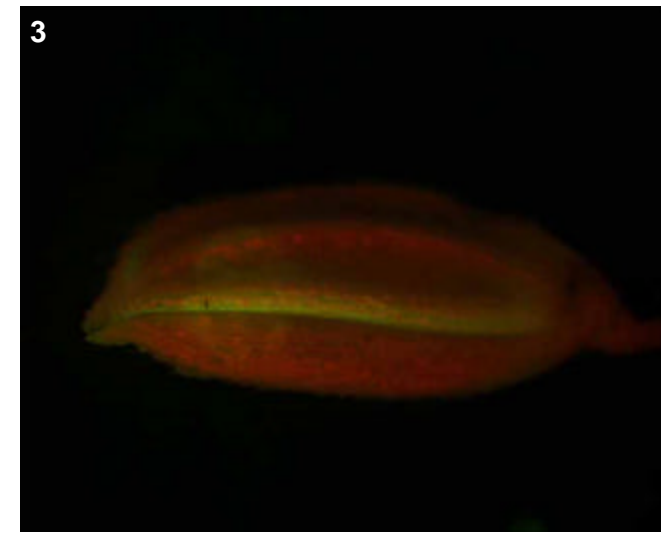
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in collar and vascular of sheath and leaf and flower. Weaker expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOV H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

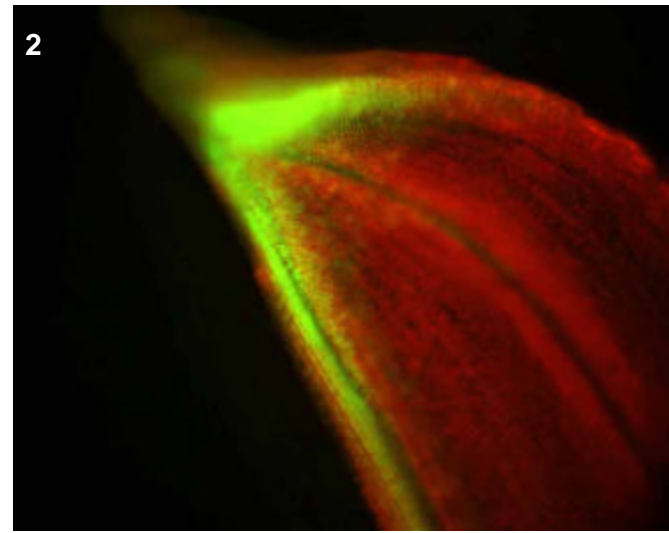
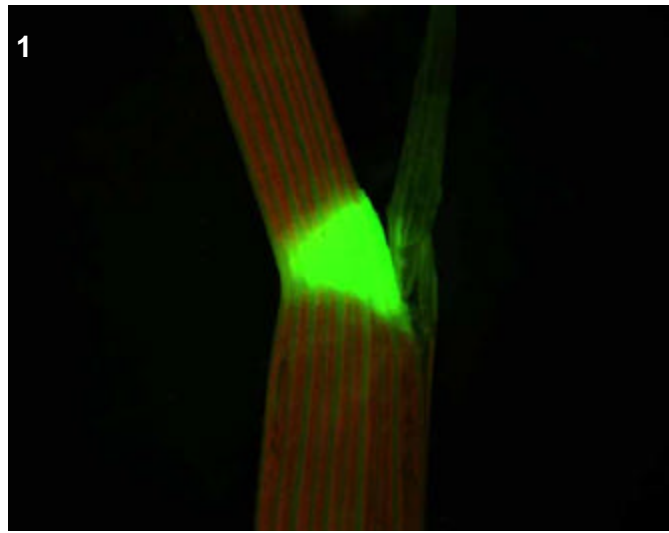
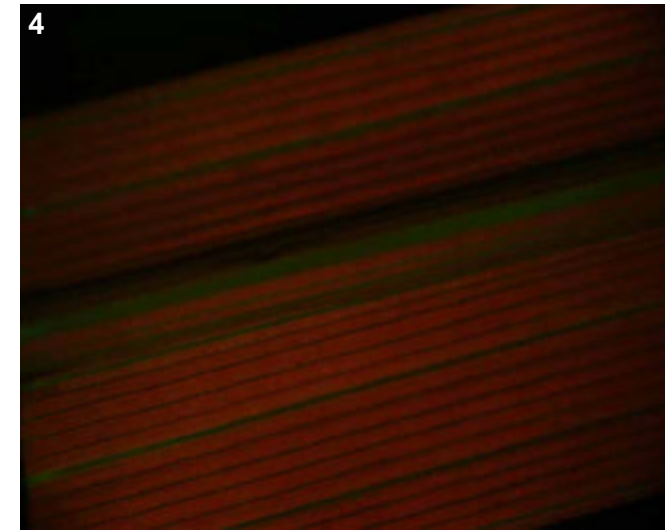
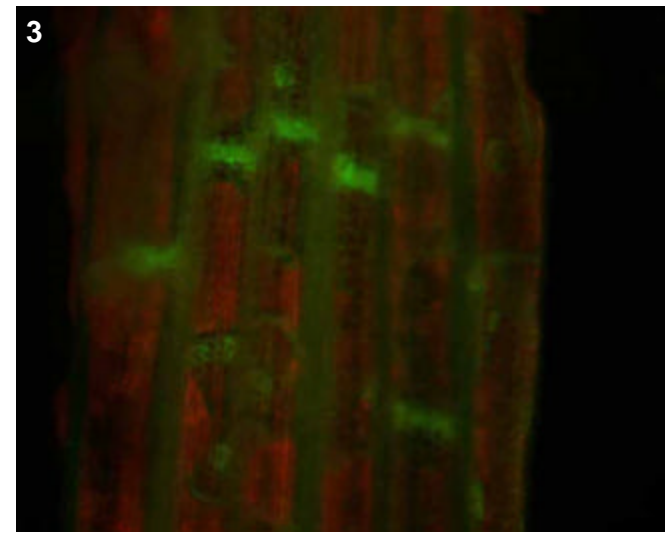
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Very bright collar and sheath vascular, also leaf and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOW A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

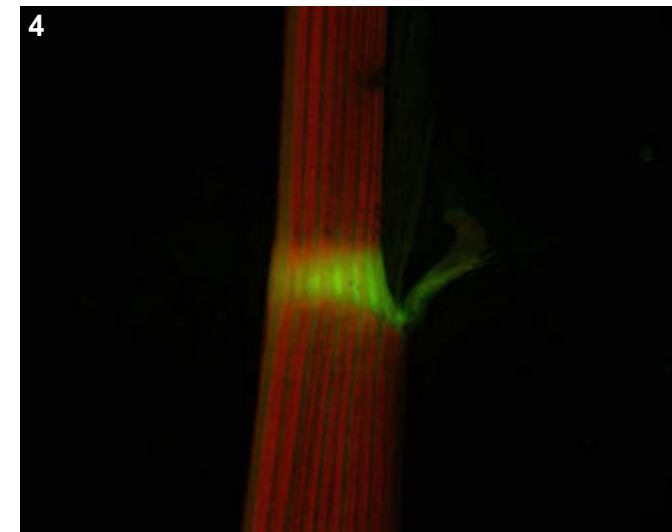
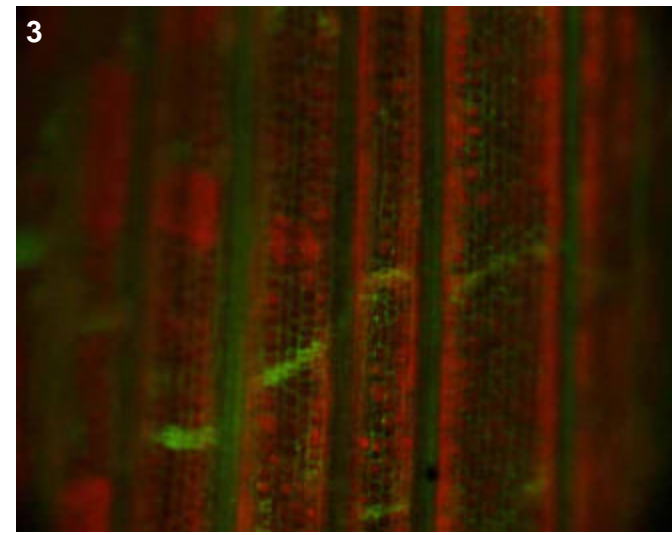
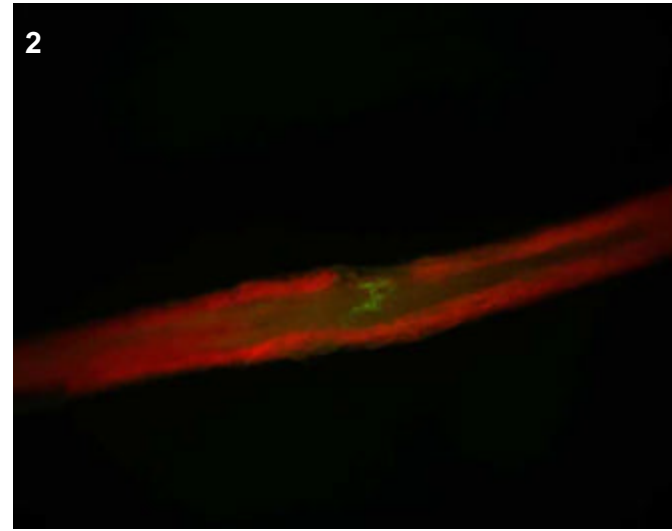
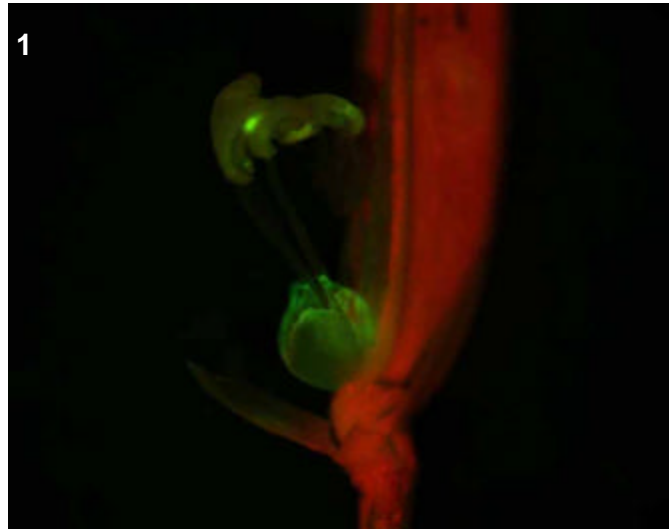
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression in the collar and surrounding auricle, weaker in the sheath vascular. Bright expression in the lodicules and in a narrow band where the pedicel attaches to the rachis.

T1 seed comments

T1 seedling comments

Genotype: AOW A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

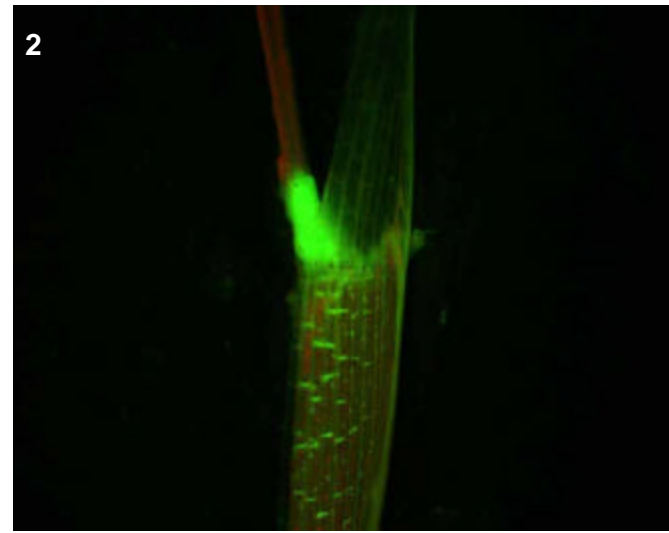
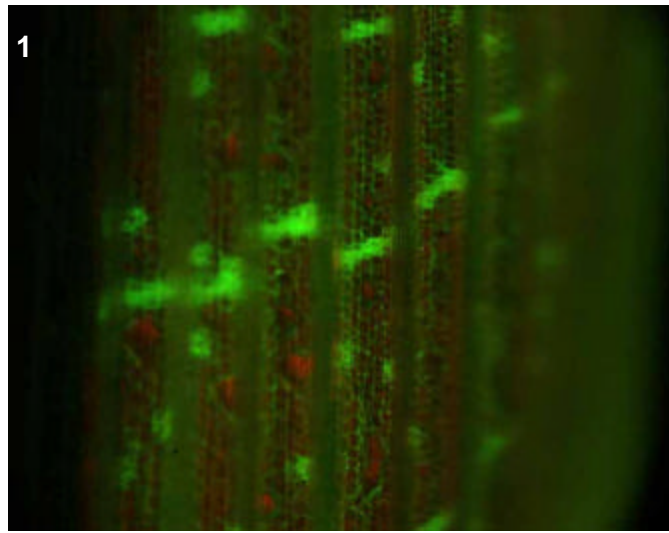
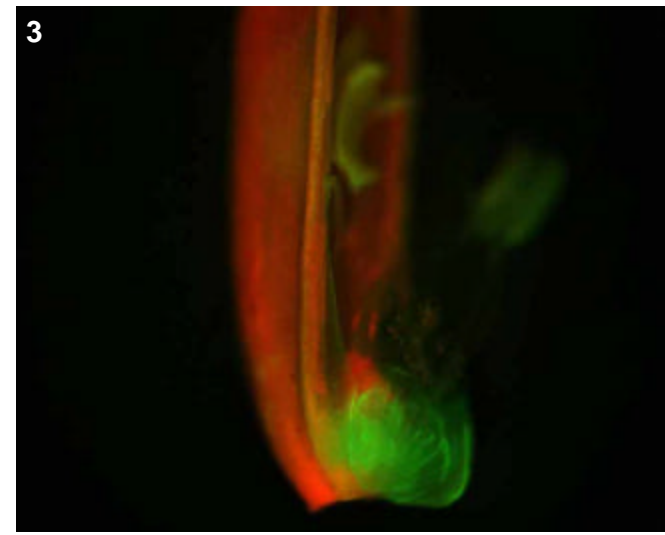
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Bright expression in the collar, sheath vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOW A08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

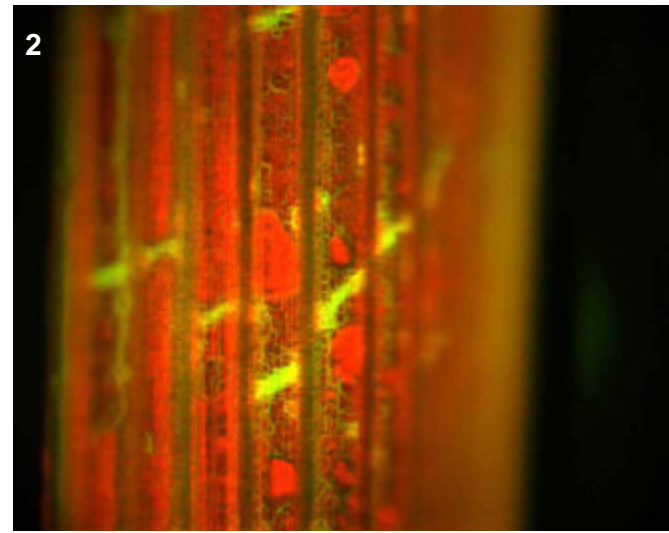
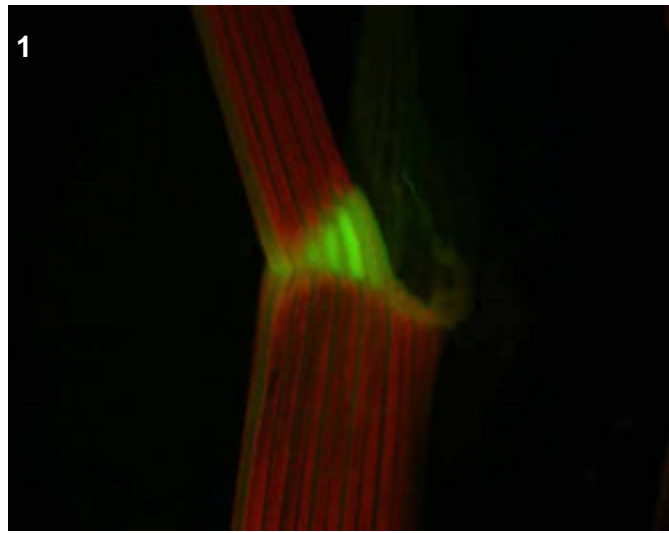
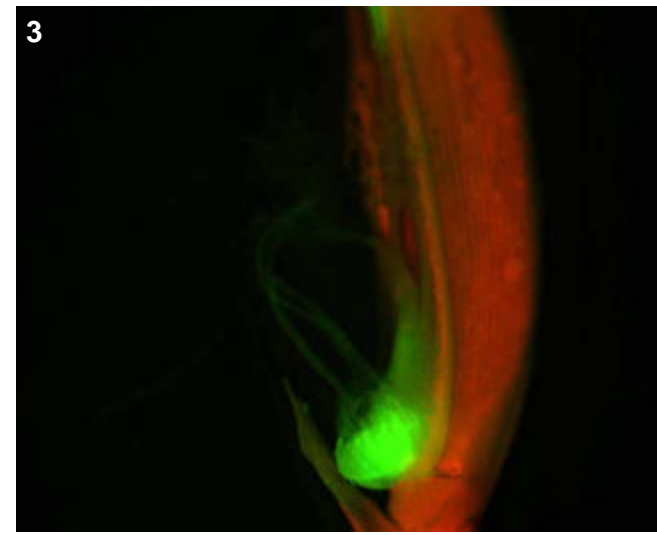
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in the collar, sheath vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOW C06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

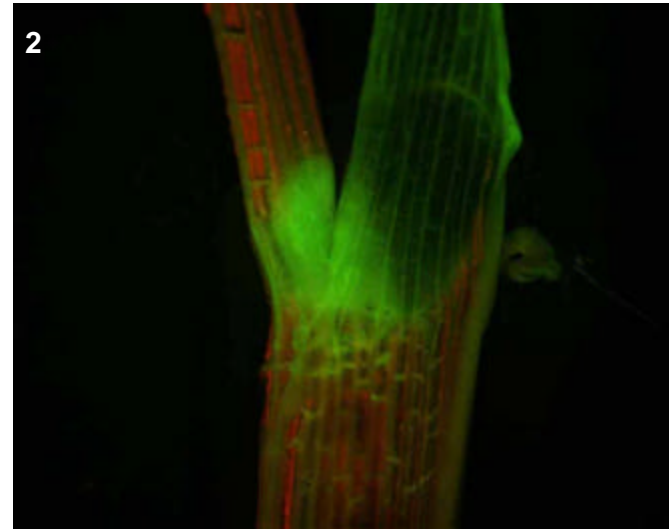
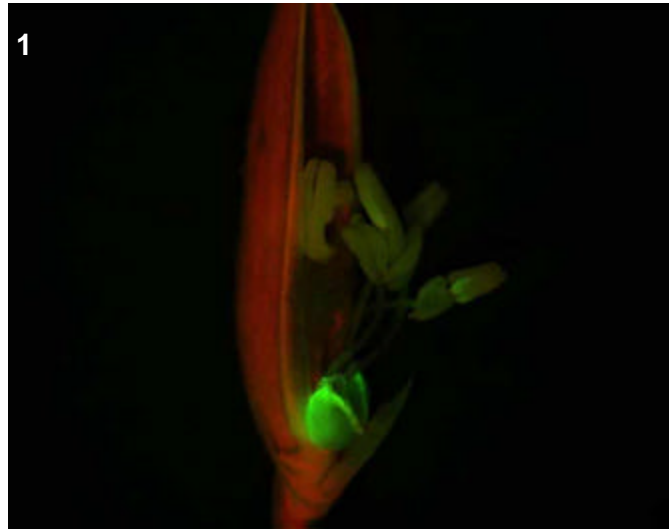
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate collar and sheath vascular, strong lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOW C12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

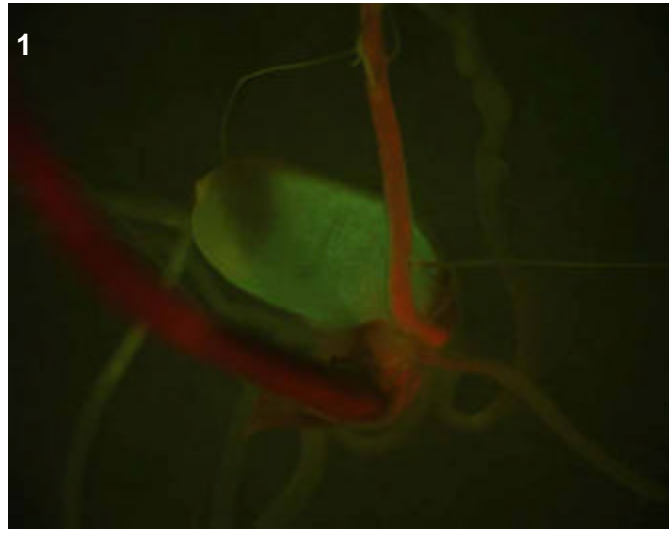
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 7



T0 comments

T1 seed comments

T1 seedling comments

looked like medium expression throughout endosperm, as well as faint root vascular.

Genotype: AOW D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

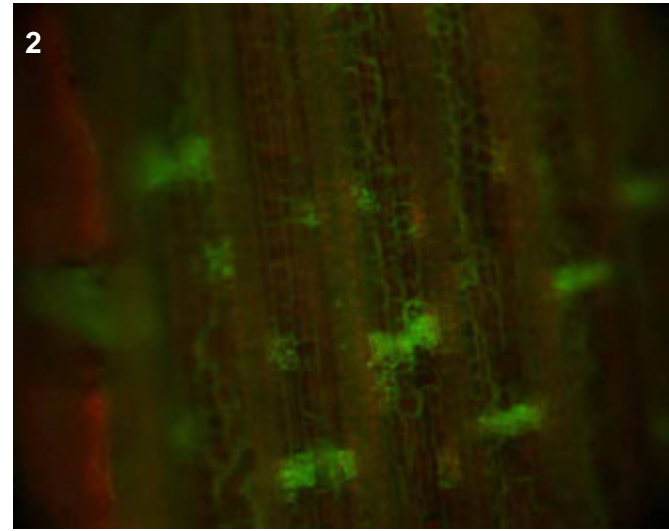
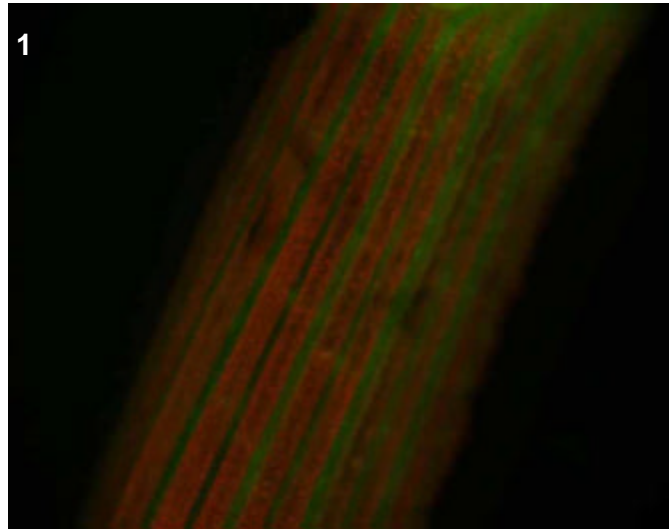
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:

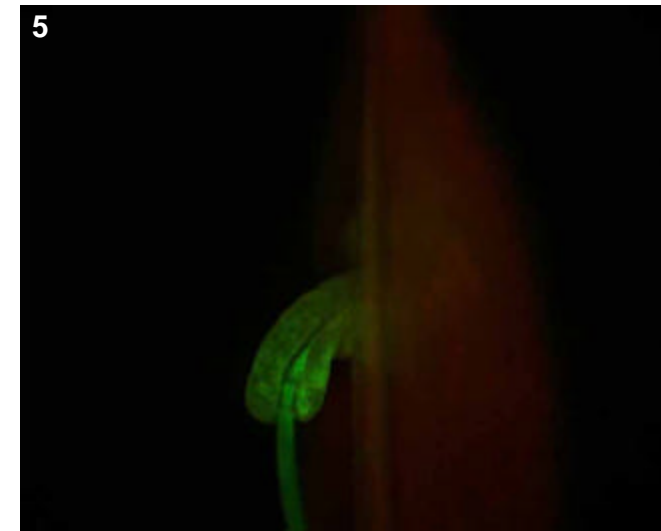
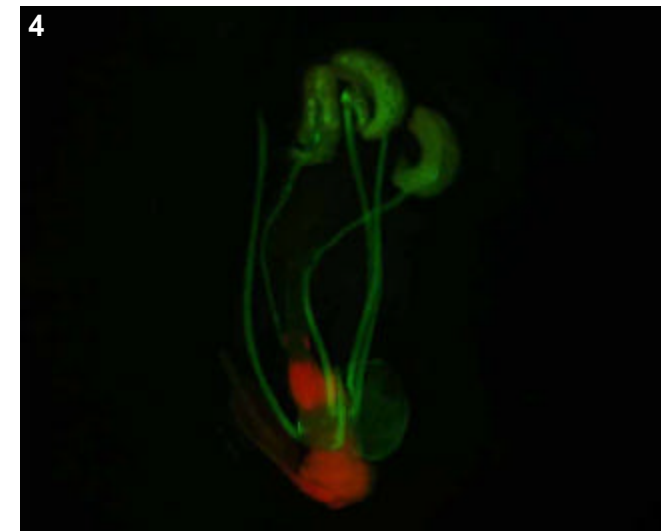
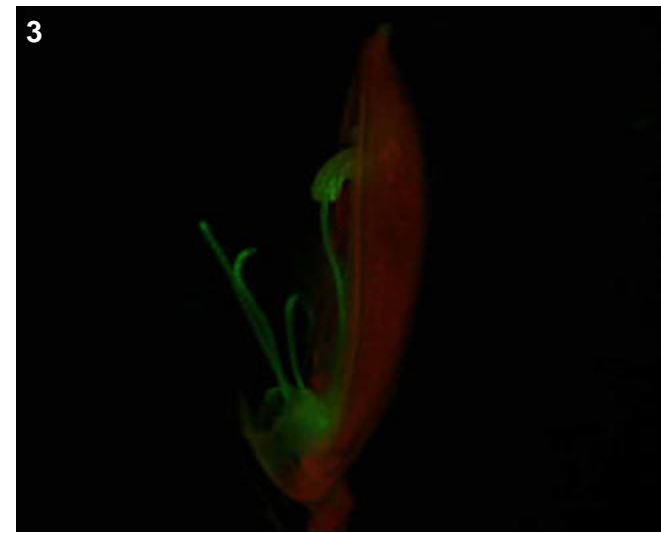


T0 comments

Strong expression in sheath and floral vascular. Also strong expression in lodicules and the filaments.

T1 seed comments

T1 seedling comments



Genotype: AOW F06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

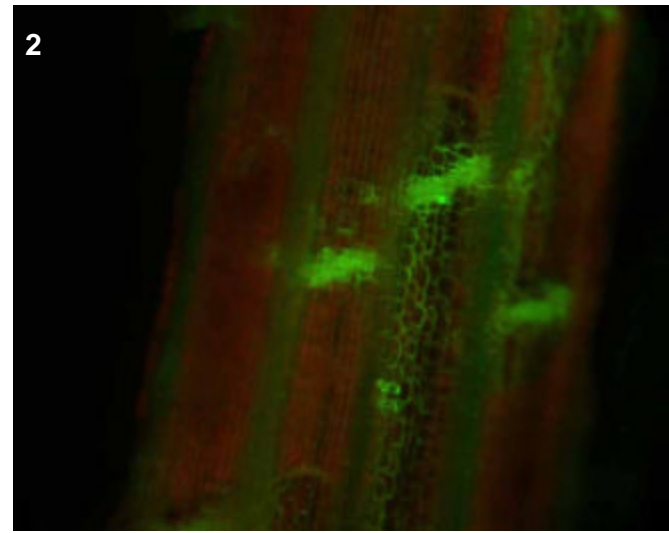
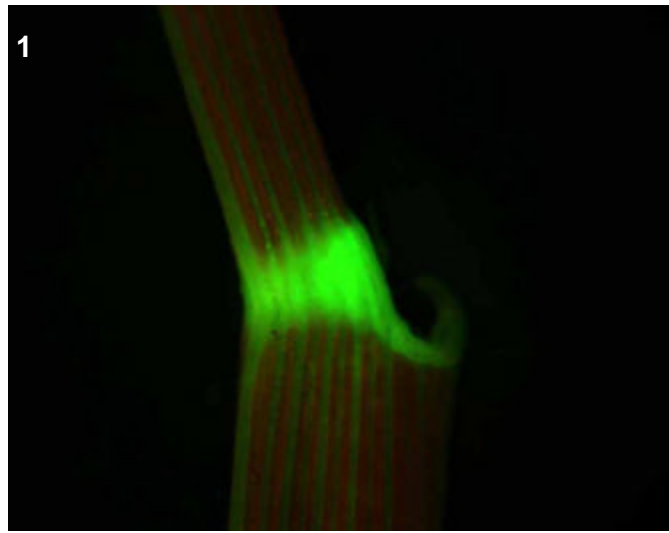
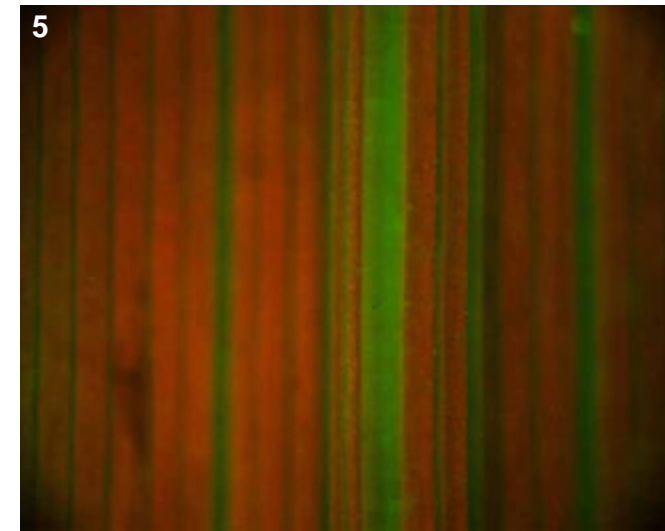
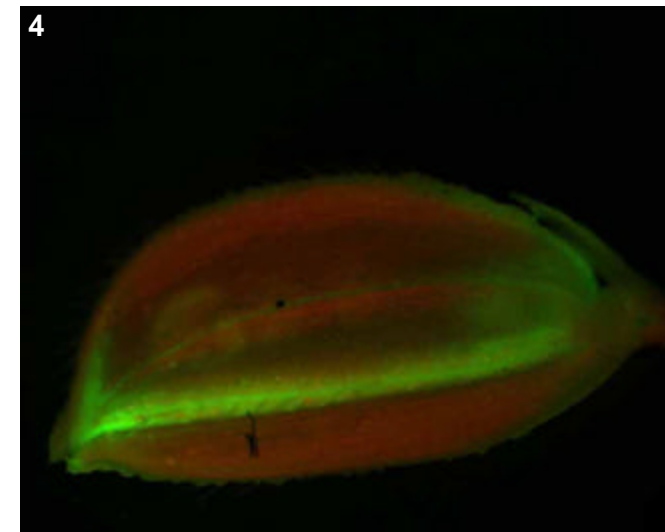
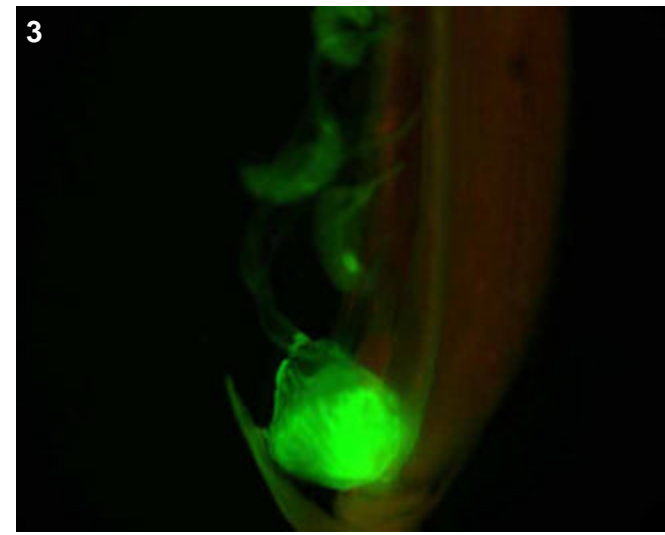
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A strong vascular line: collar, sheath and leaf vascular, floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOW F11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

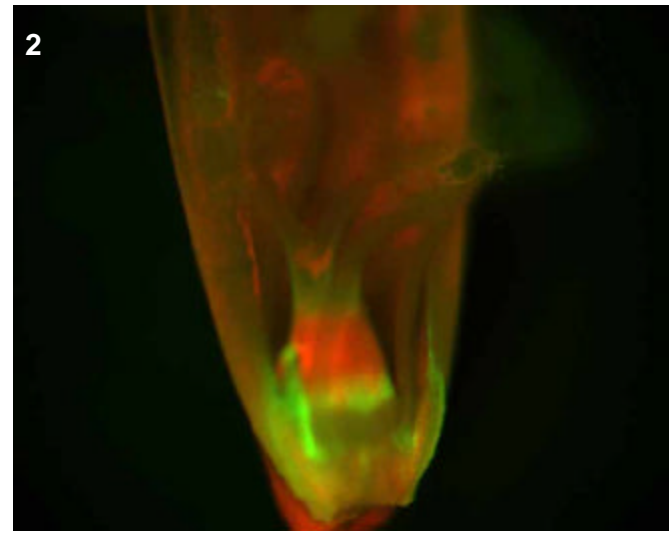
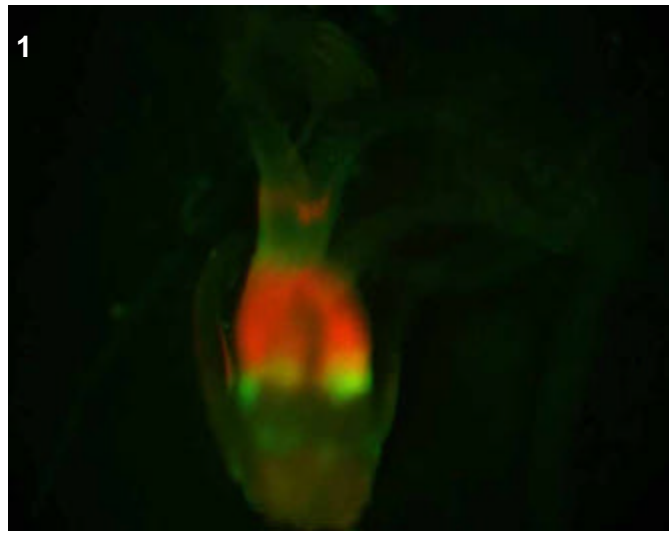
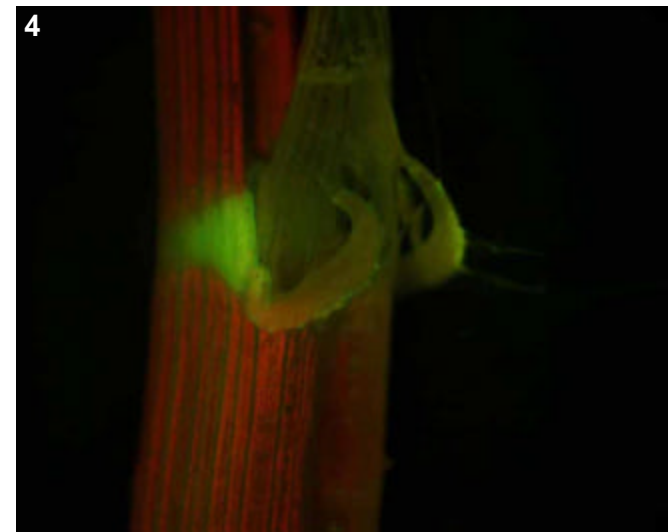
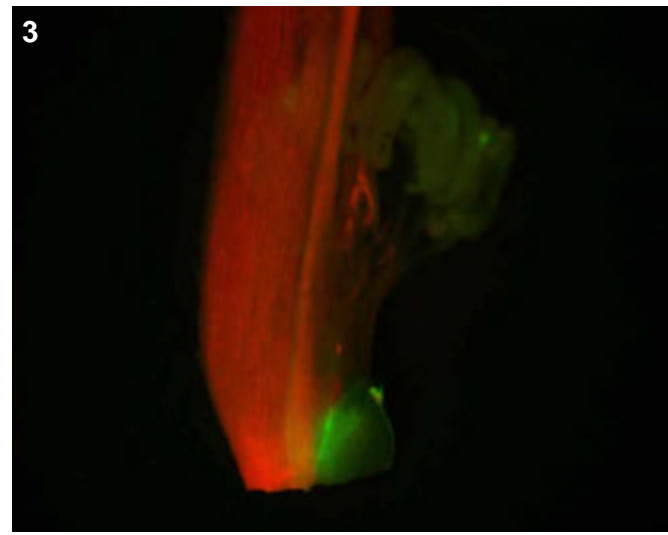
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Collar is bright, but not the surrounding vascular of sheath or leaf. Also expression in the lodicules and in carpel base/style.

T1 seed comments

T1 seedling comments

Genotype: AOW F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

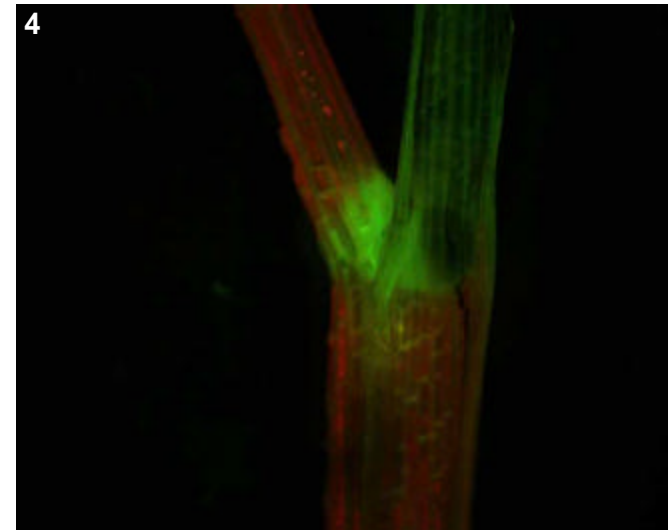
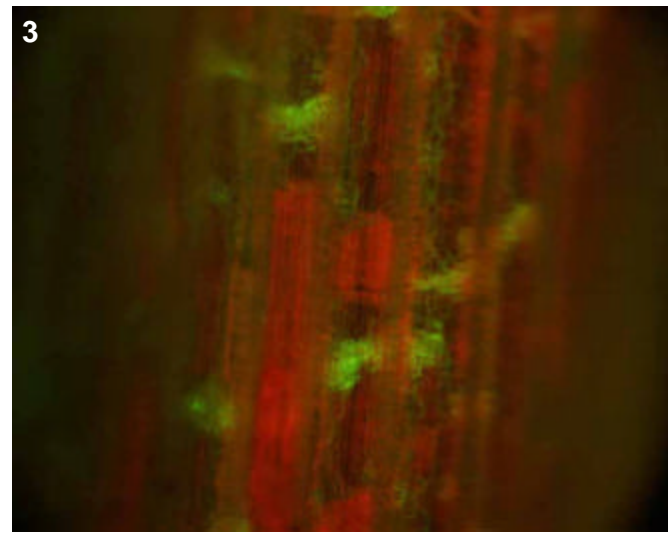
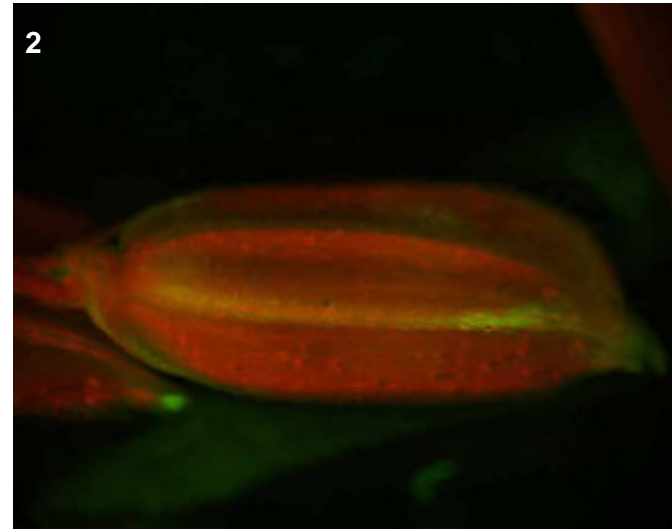
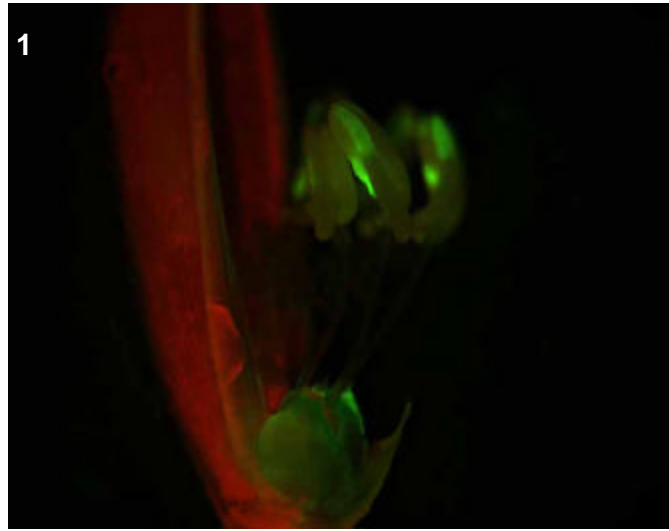
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright expression in collar, weak in sheath vascular. Strong floral vascular and lodicules, but patchy expression in anthers.

T1 seed comments

bad seed, no germination

T1 seedling comments

Genotype: AOW G11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 5-10
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

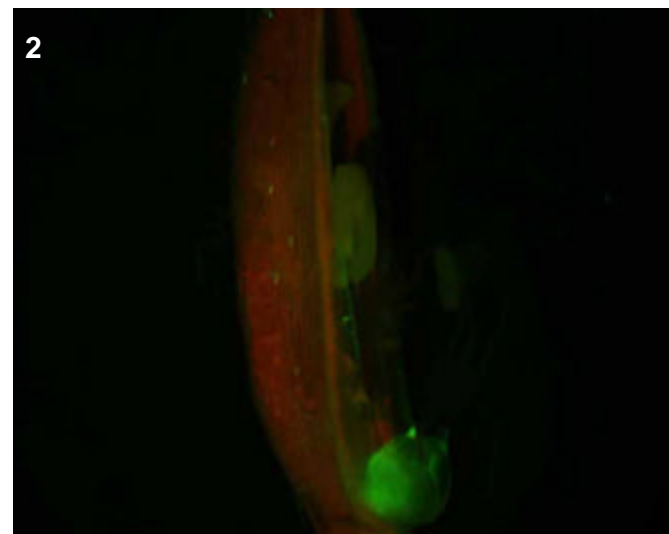
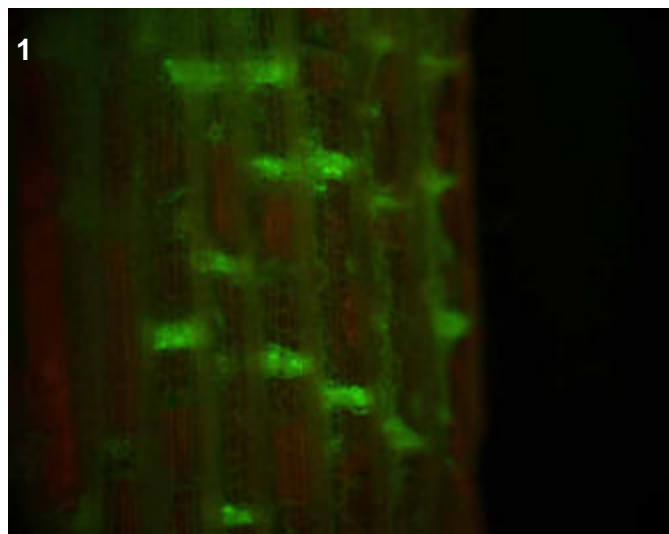
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal? YES

Number T2 seed produced: 4



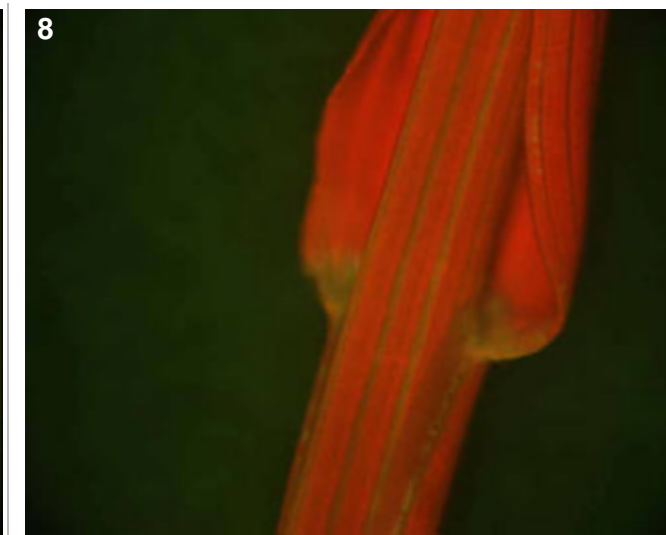
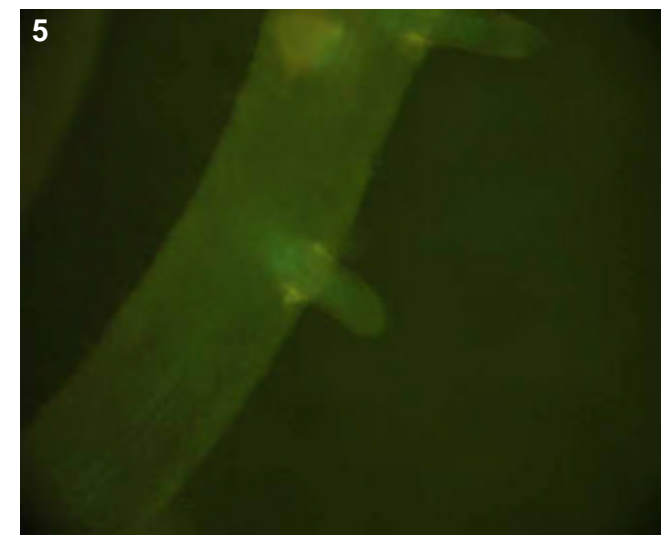
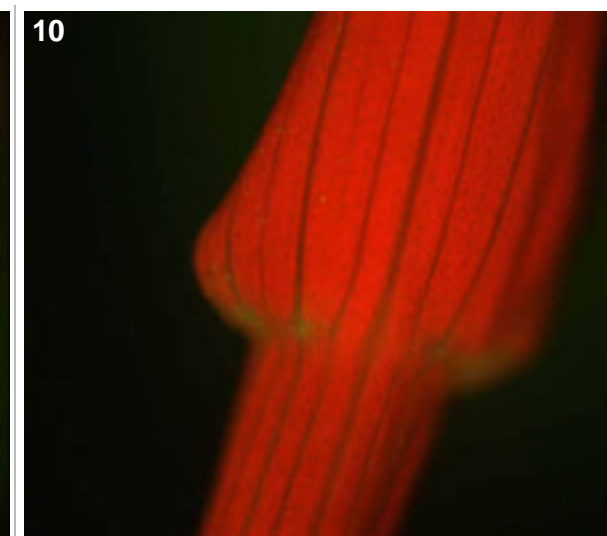
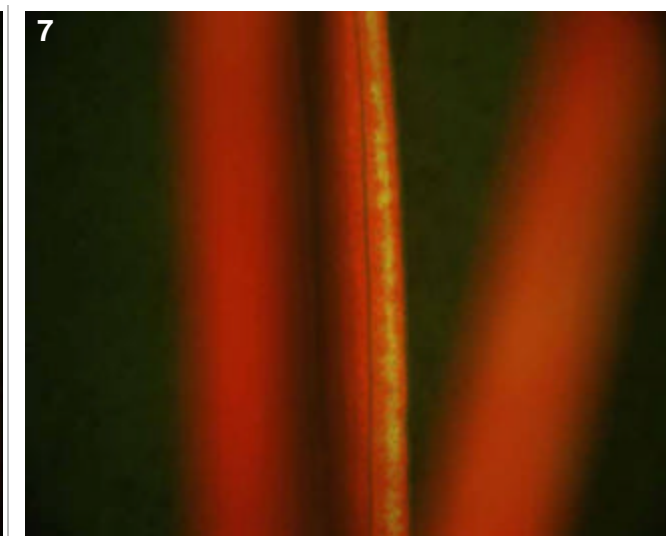
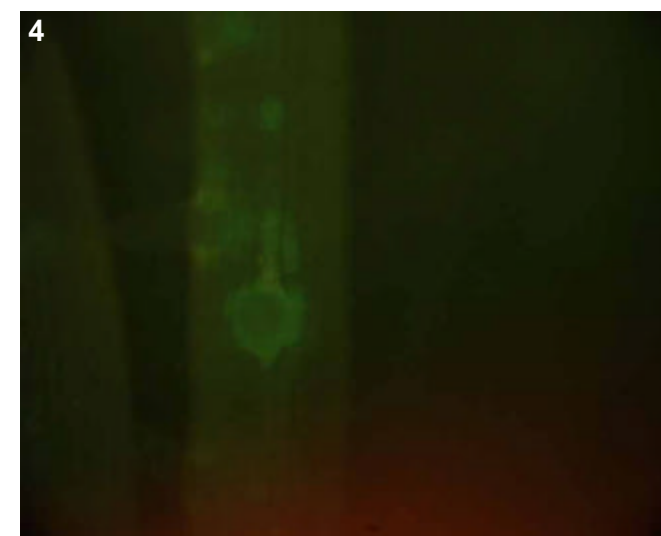
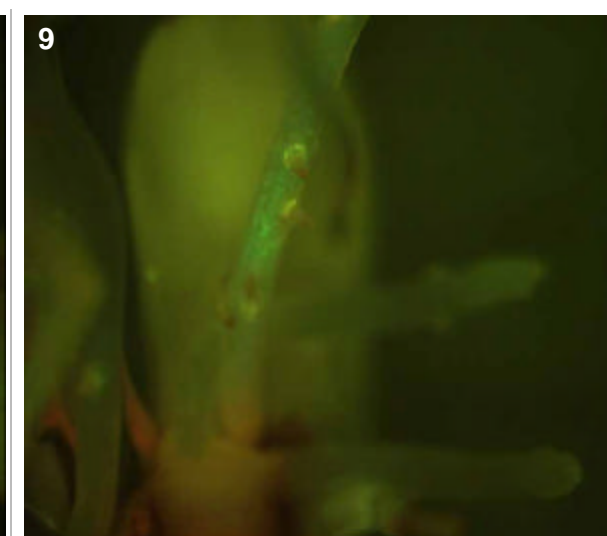
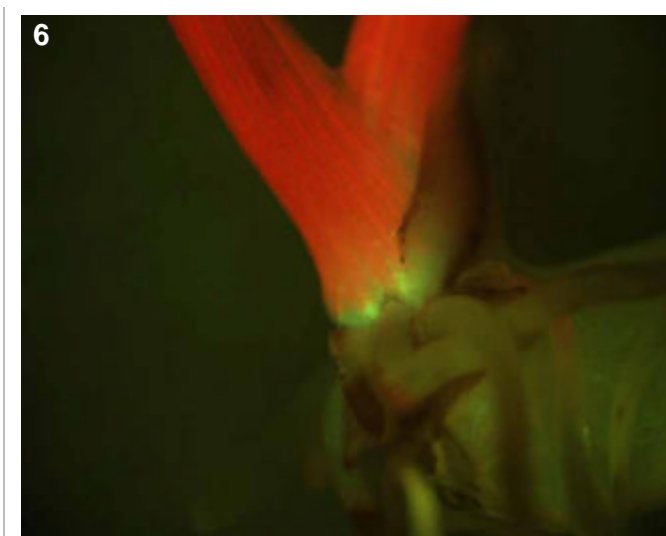
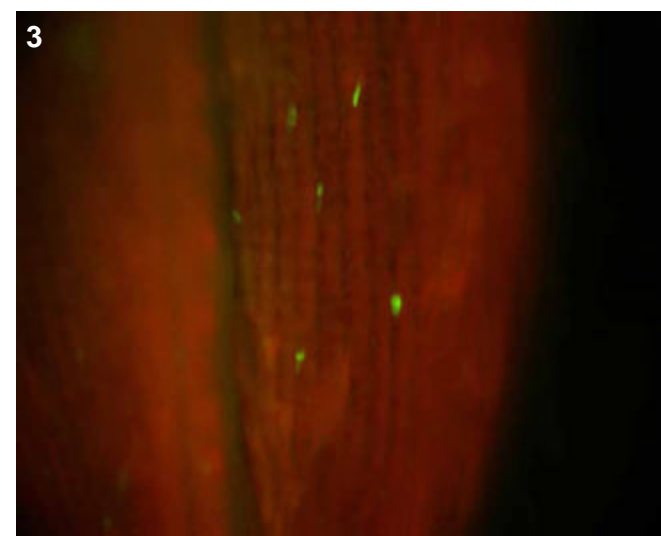
T0 comments

Strong expression in sheath vascular, lodicules and trichomes of flower.

T1 seed comments

T1 seedling comments

Root expression mostly in older parts of crowns and at the base of laterals. Bright shoot vascular, collar, leaf edges as well as the base of seedlings where new crown roots emerge.



Genotype: AOX B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

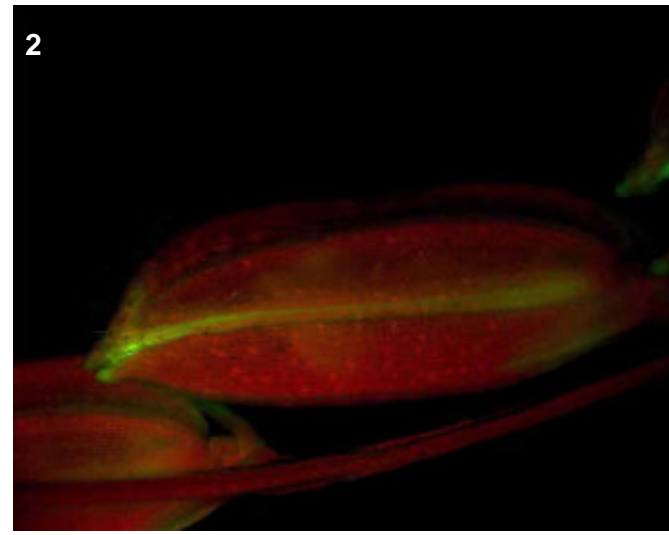
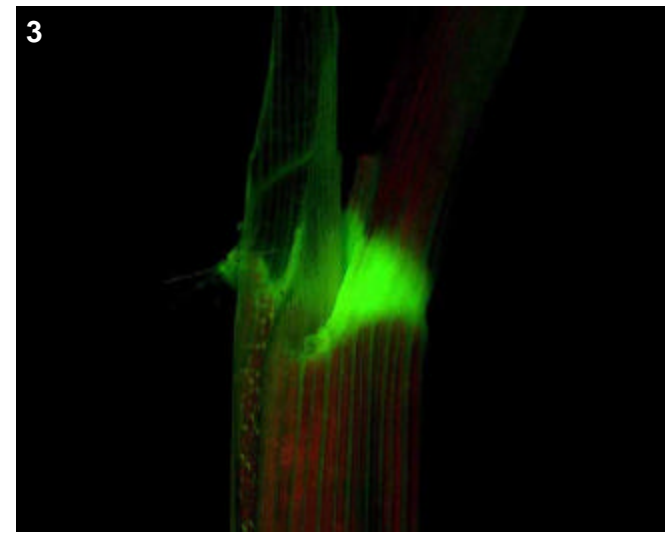
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong expression in collar, sheath vascular and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOX B04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

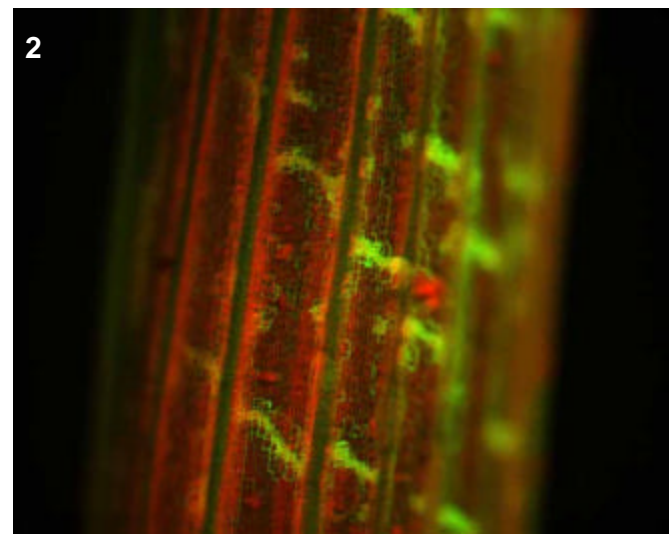
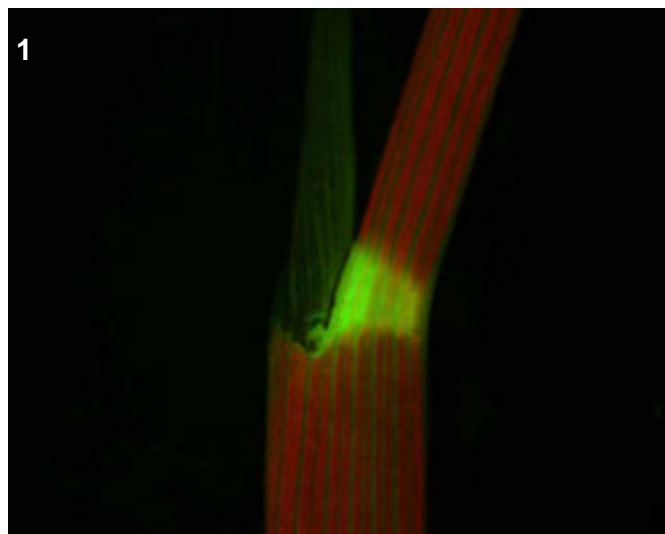
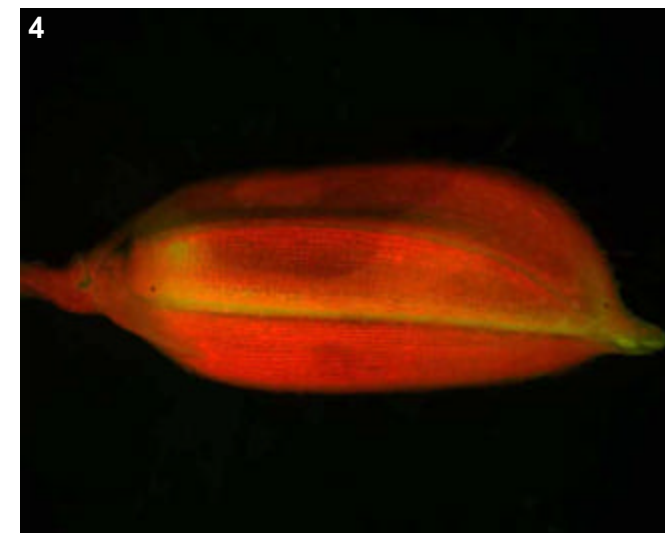
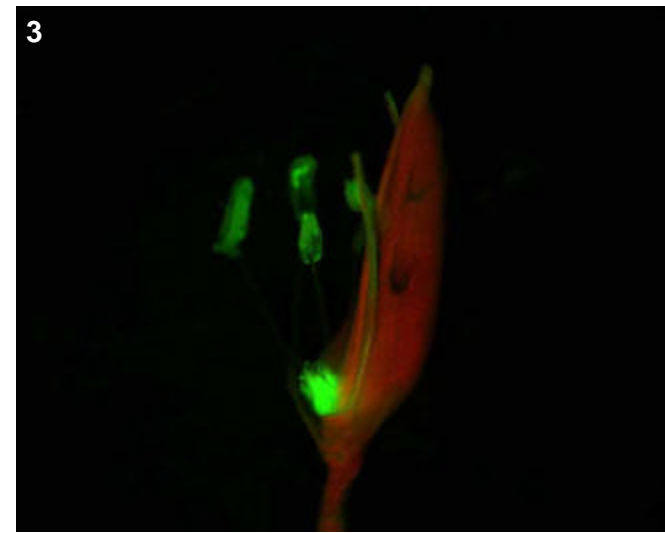
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong vascular line. Bright expression in collar, sheath vascular, floral vascular, lodicules and anthers.

T1 seed comments

T1 seedling comments

Genotype: AOX B08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-9
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

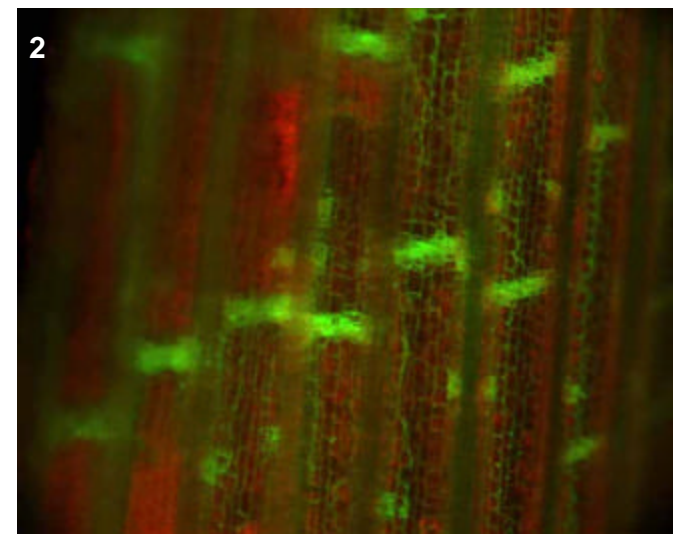
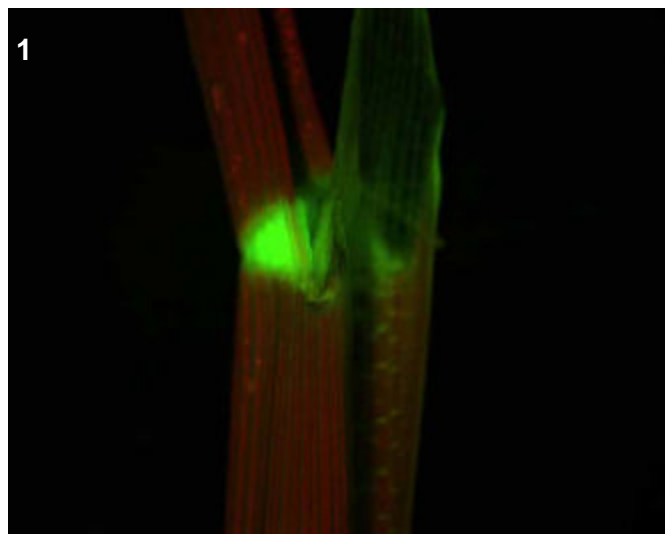
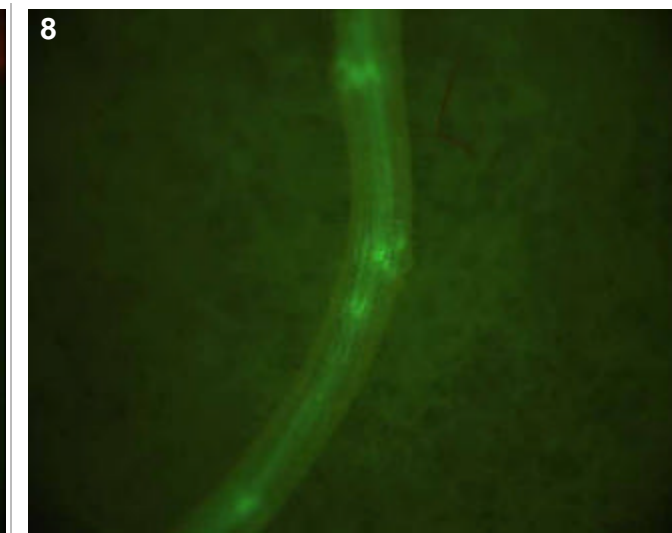
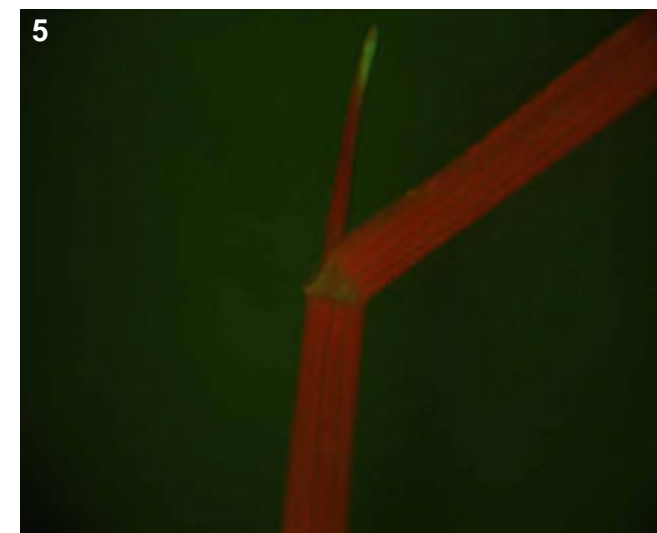
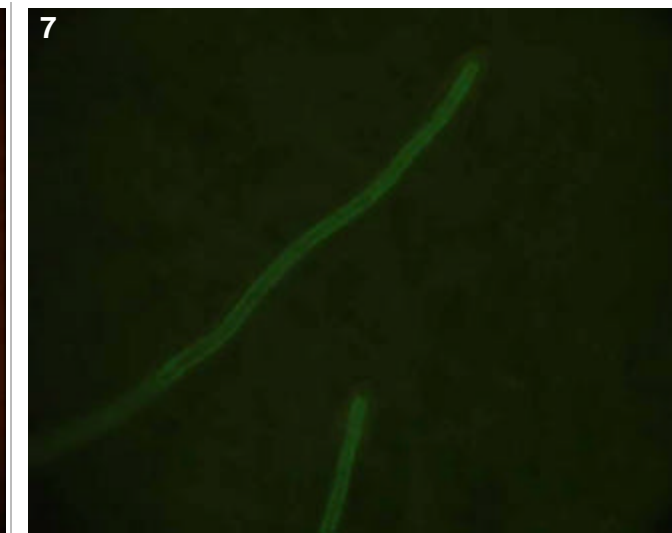
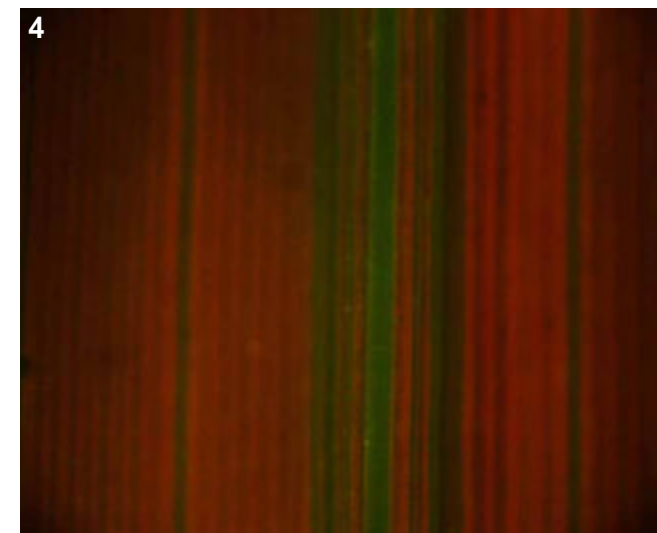
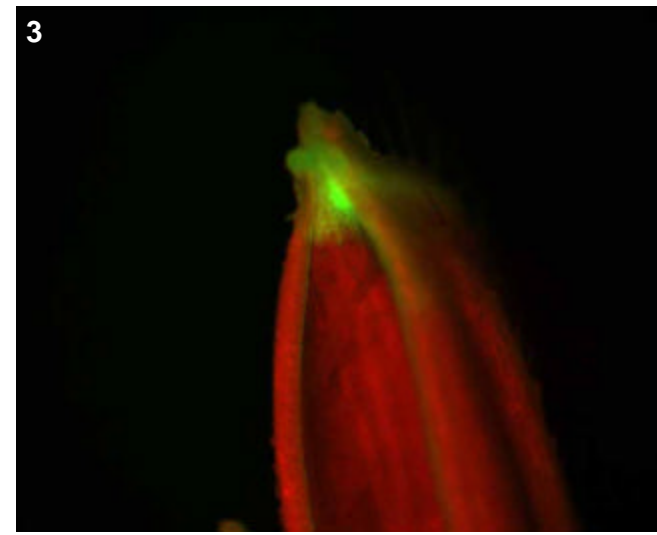
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal? YES

Number T2 seed produced: 0



T0 comments

Very strong vascular line: bright collar, sheath and leaf vascular. Faint expression in lodicules but no pic taken.

T1 seed comments

T1 seedling comments

A great vascular line, looks to be very specific to the vascular cylinder. Confocal will clarify. Also faint collar and more brightly in tips of leaves. Bad germination of seed so take several for confocal.

Genotype: AOX C02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

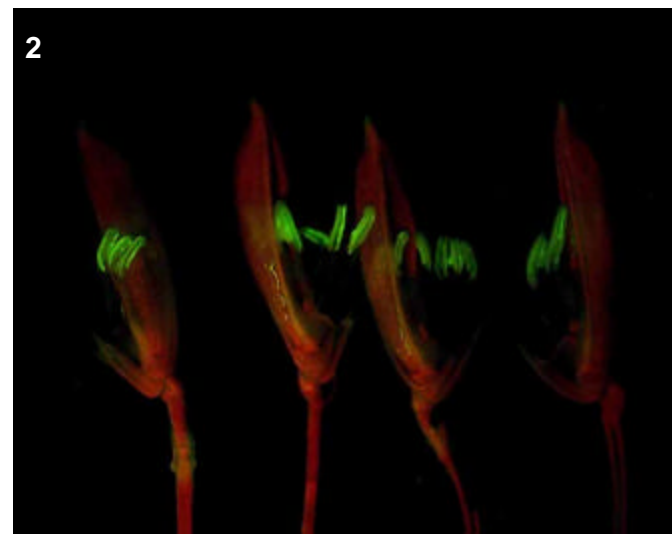
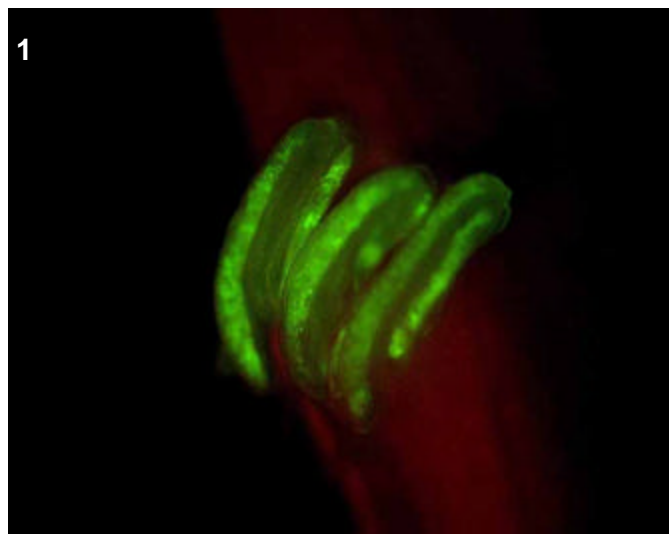
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in anthers, believe that it is the anther wall

T1 seed comments

T1 seedling comments

Genotype: AOX C04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

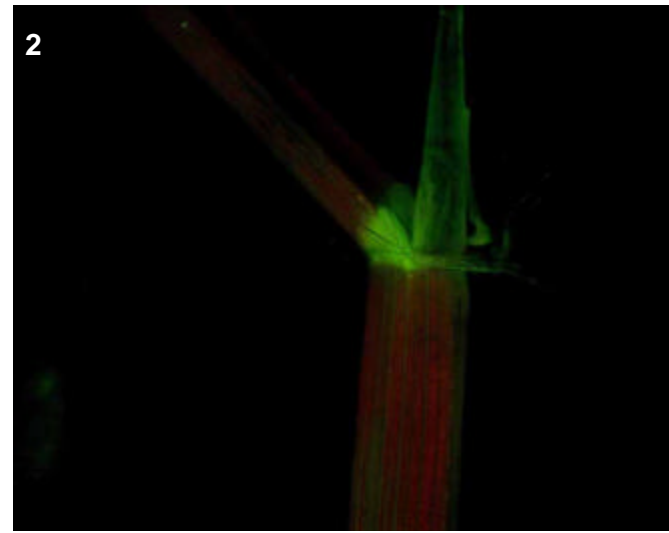
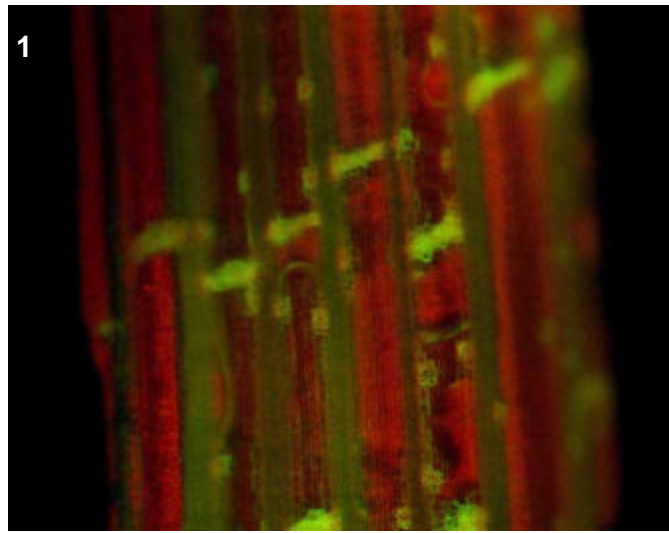
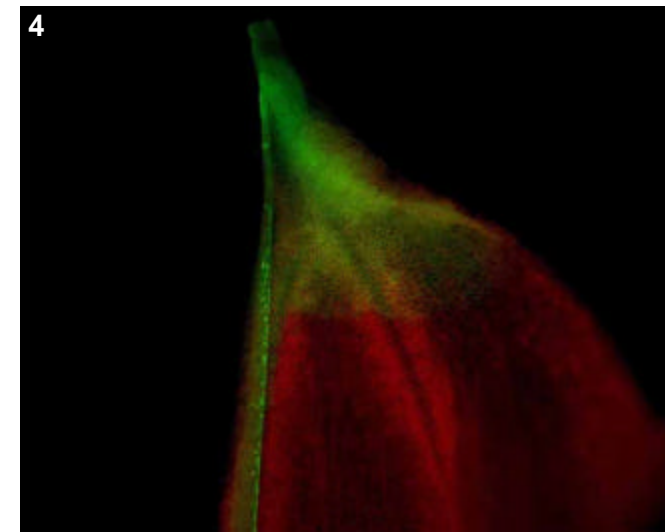
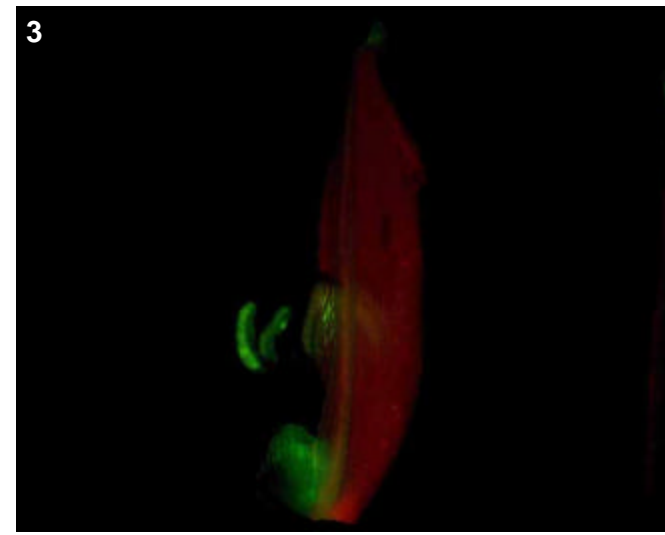
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in collar, sheath vascular, lodicules and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOX D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

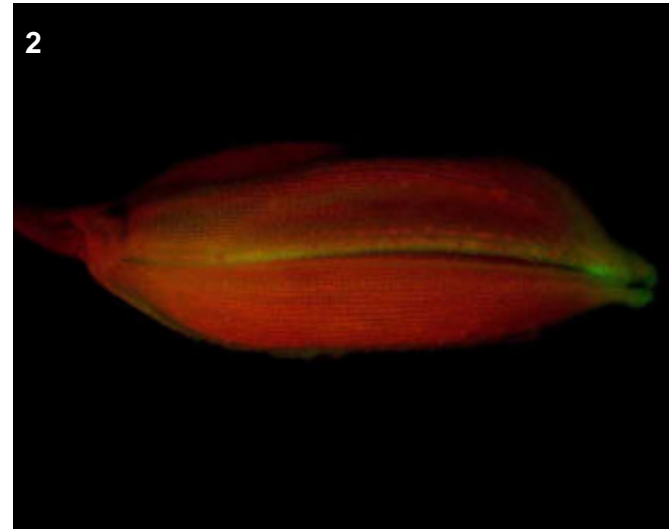
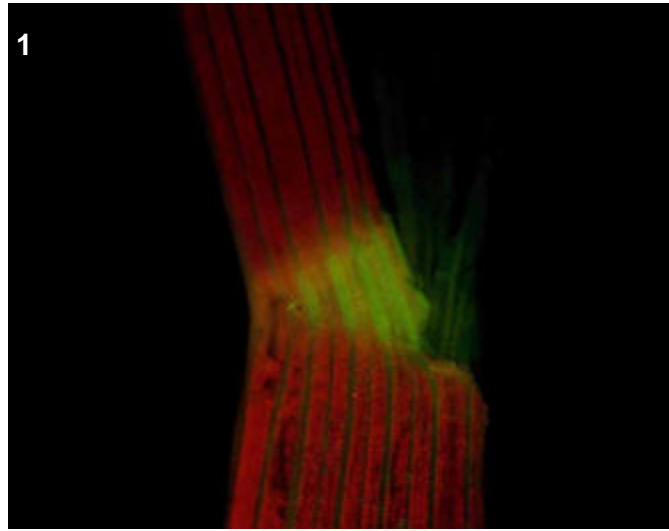
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Compact plant in the greenhouse. Expression in the collar, and in the floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOX F03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

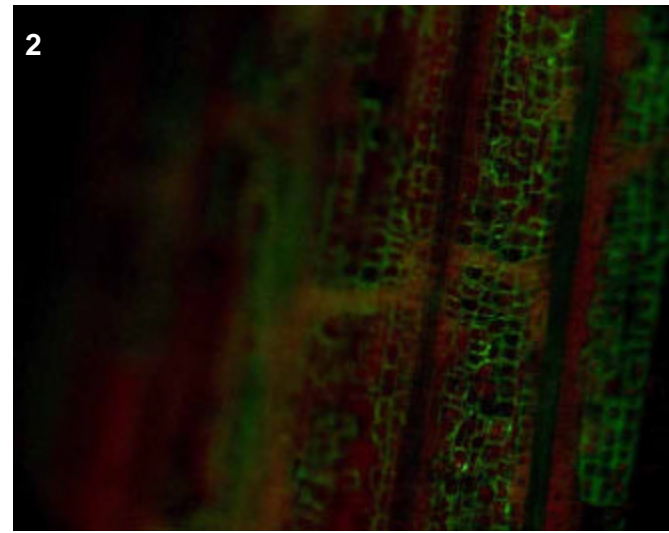
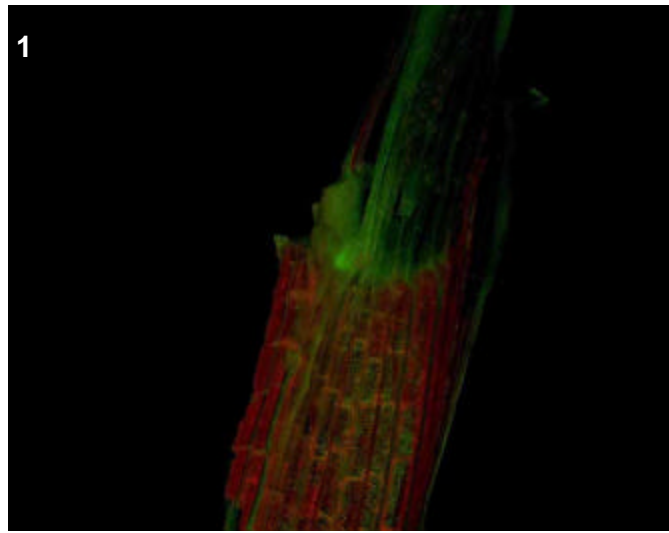
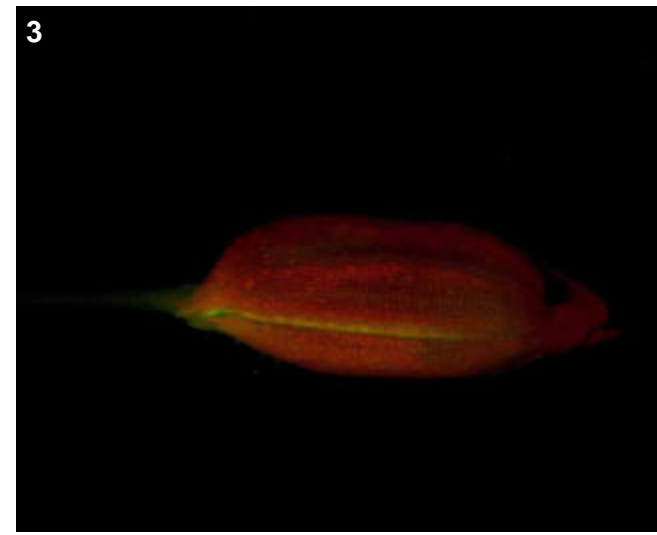
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

tetraploid, with fluorescence in the collar, sheath vascular and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOX F05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

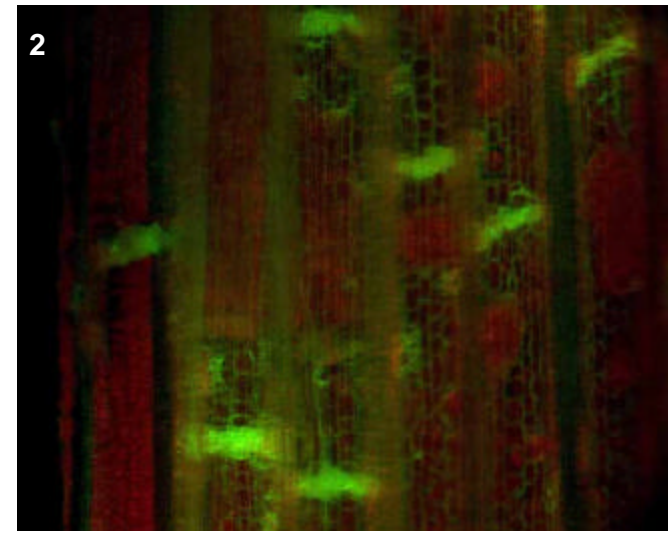
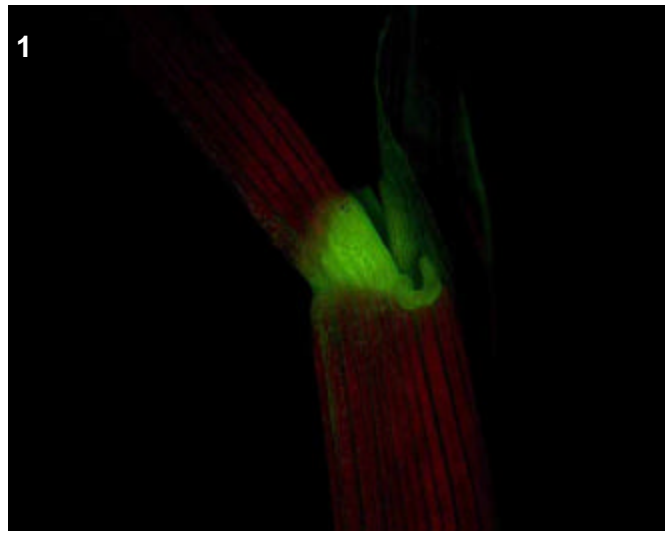
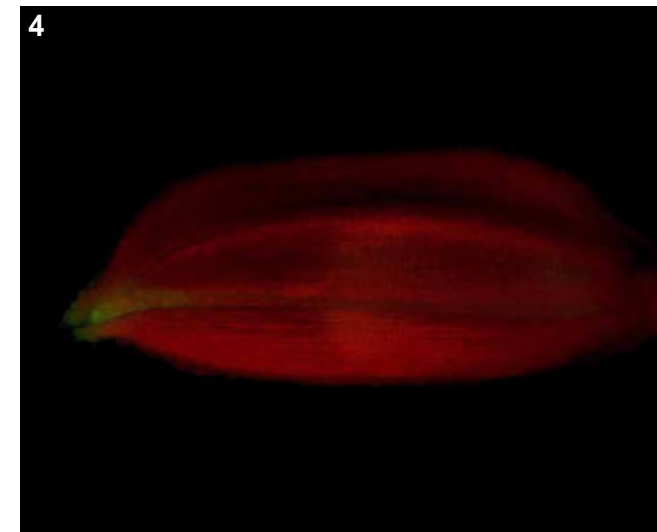
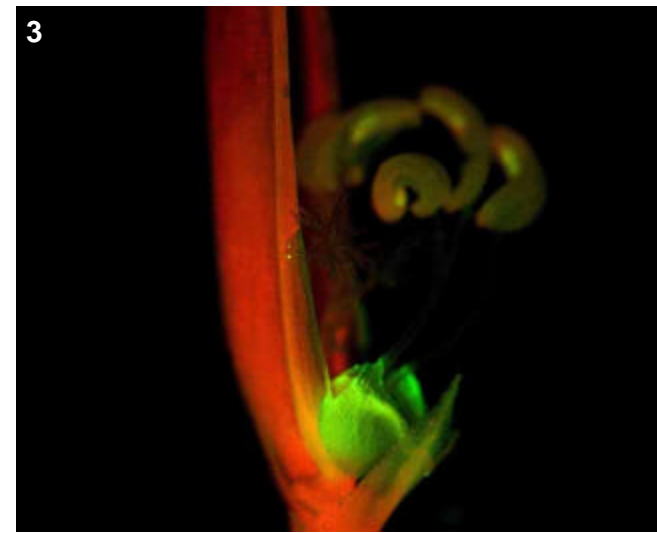
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in collar, moderate in sheath vascular. Weak expression in floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOY A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3
 T1 mature plant: 4-6

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

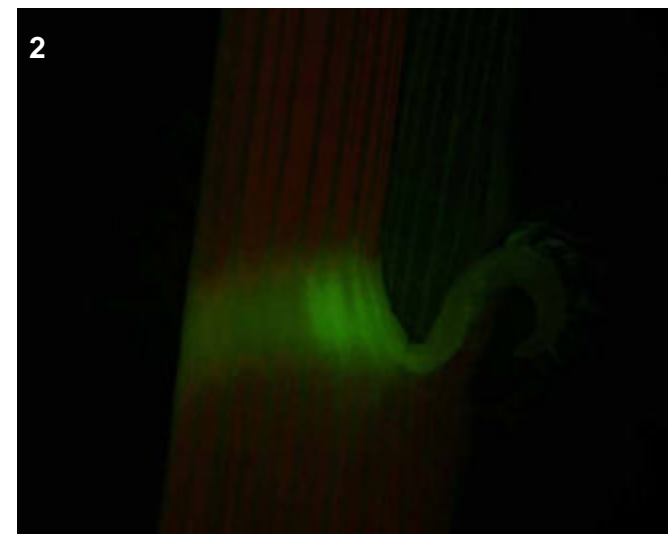
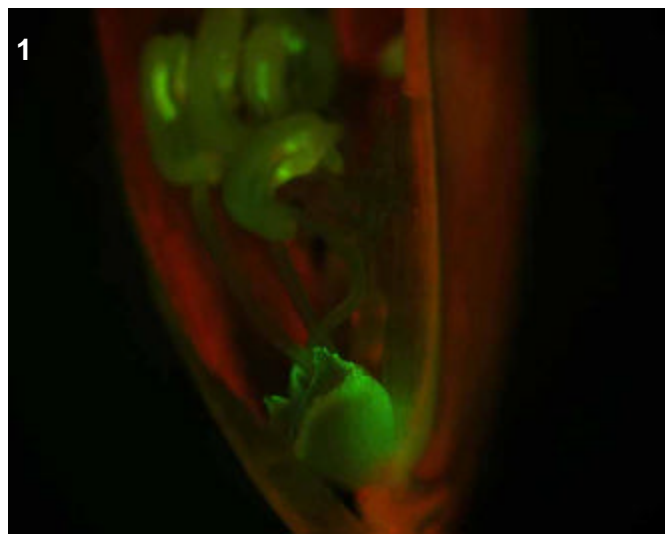
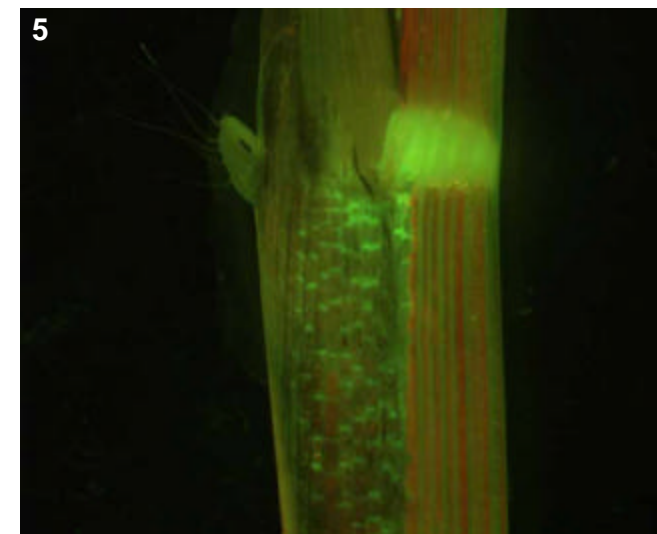
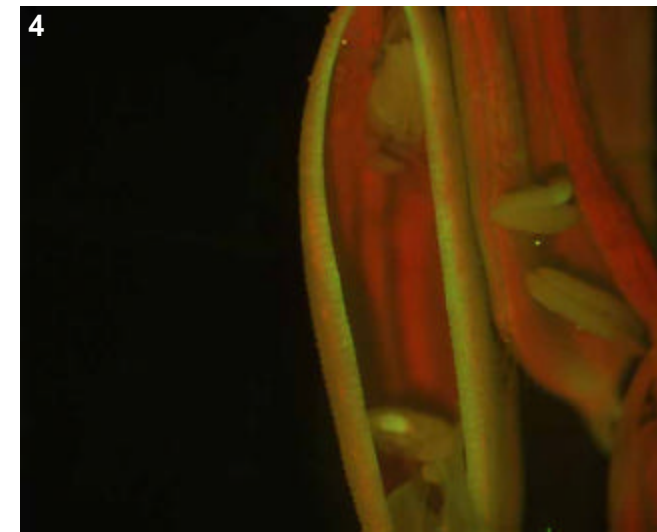
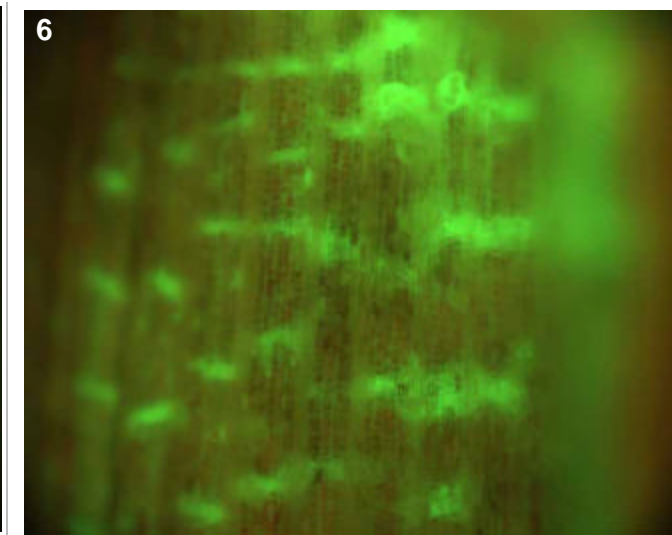
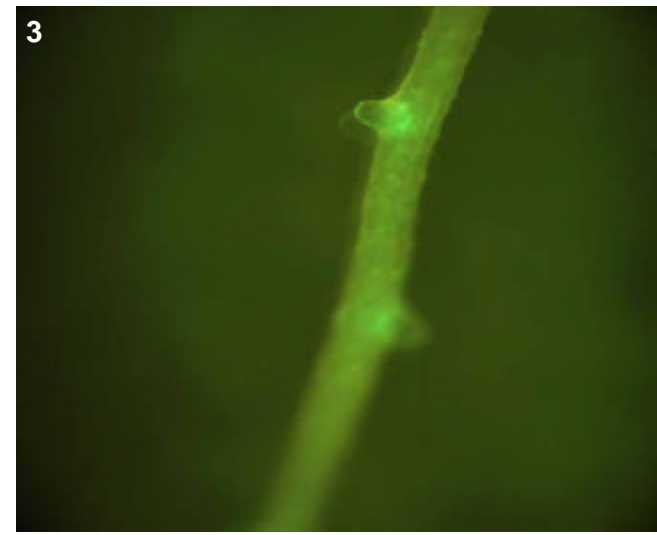
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
Collar and sheath vascular, as well as faint floral vascular.
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 146



T0 comments

Weak expression in collar, no expression in the surrounding vascular tissues. Some lodicule expression mostly near the tips of the organ.

T1 seed comments

T1 seedling comments

Genotype: AOY A08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

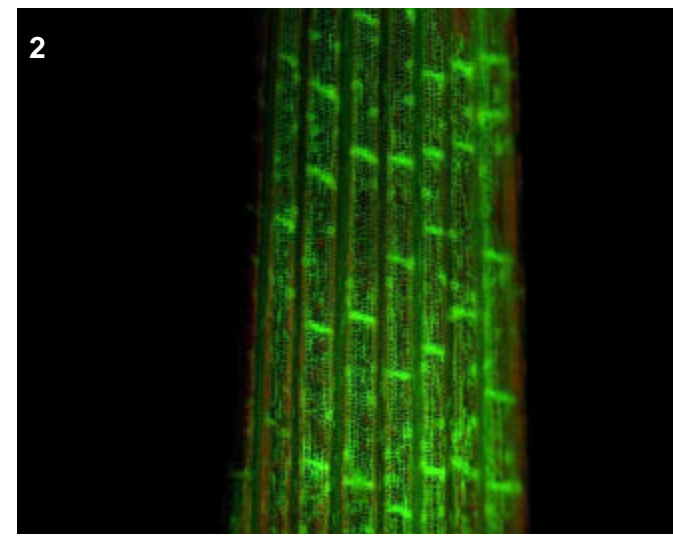
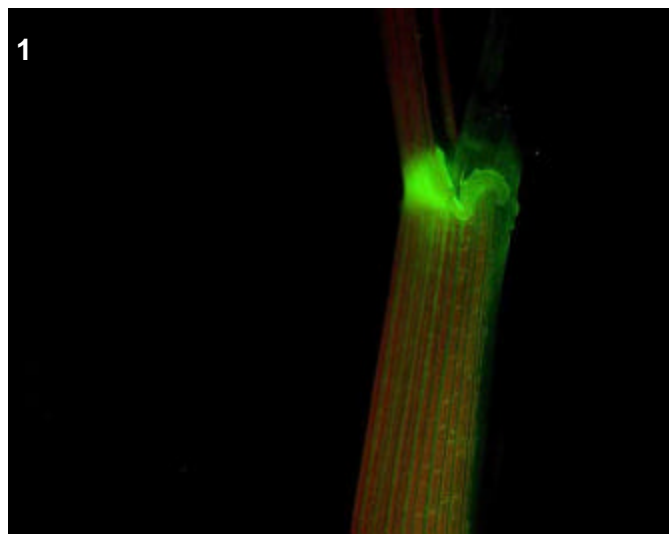
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 13



T0 comments

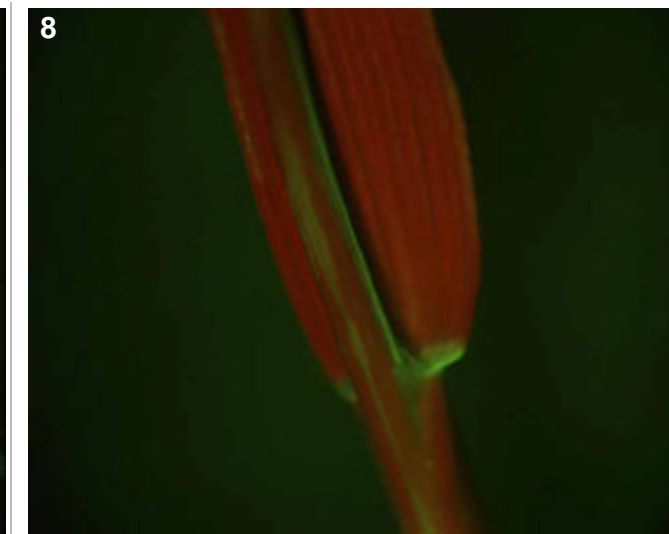
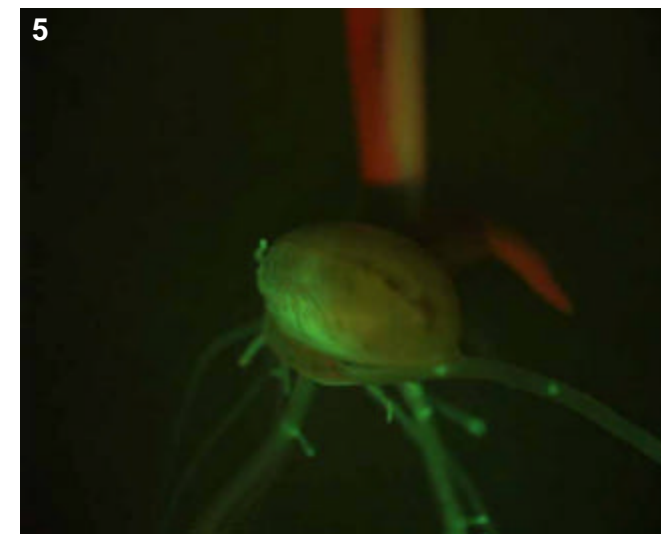
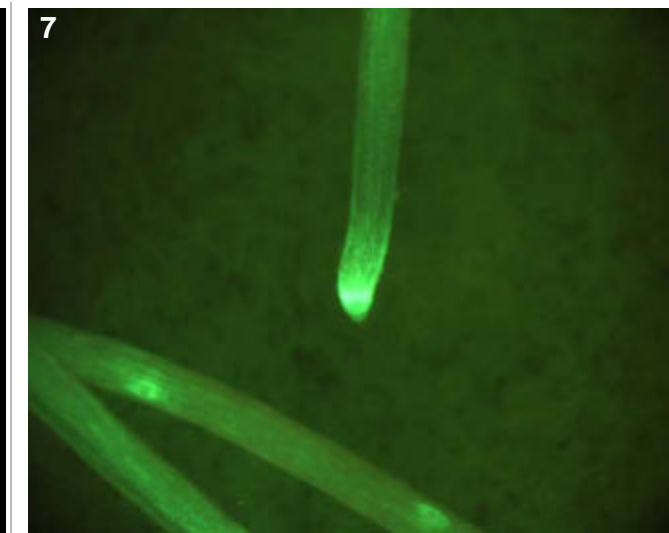
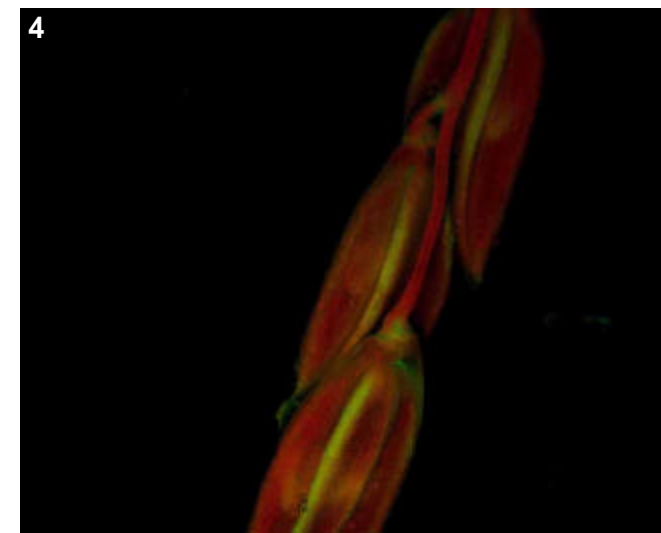
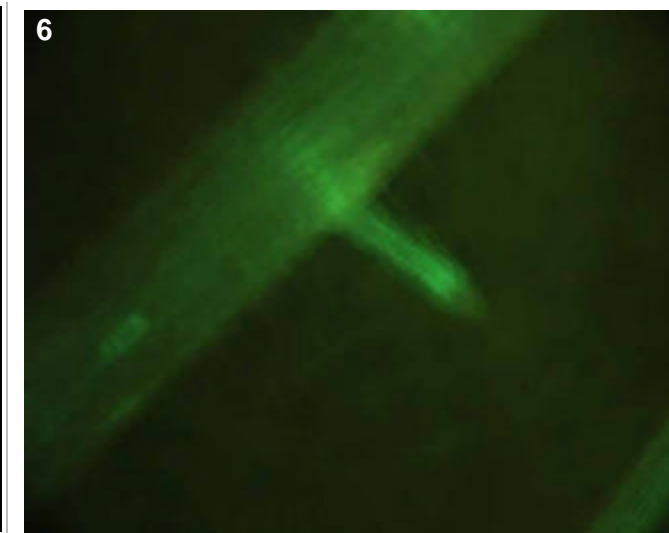
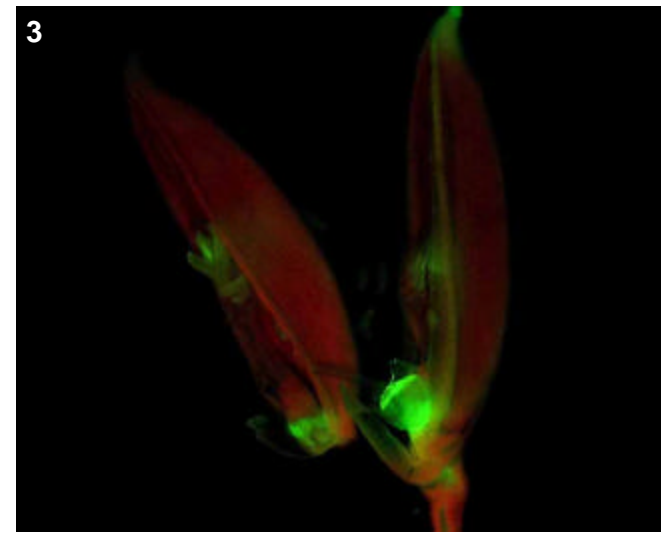
Expression in collar and sheath vascular. Also lodicules and floral vascular.

T1 seed comments

2/5 seeds showed bright expression in the embryo.

T1 seedling comments

Bright root and shoot vascular expression.



Genotype: AOY B07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

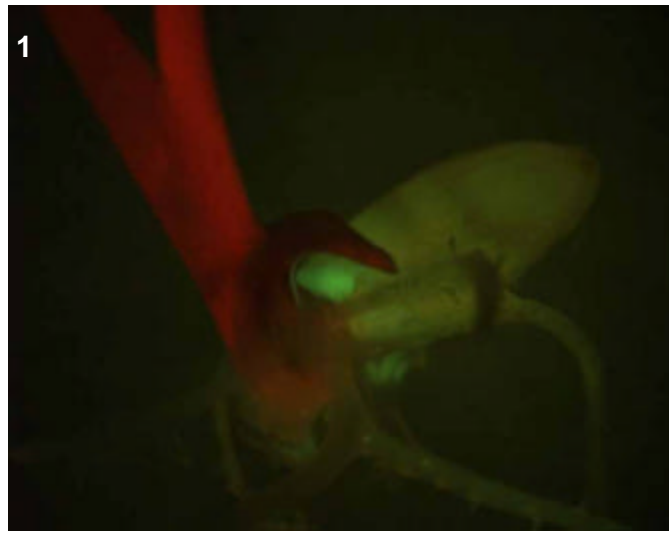
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 56



T0 comments

T1 seed comments

T1 seedling comments

Perhaps faint expression near the base of two plants.

Genotype: AOY D01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

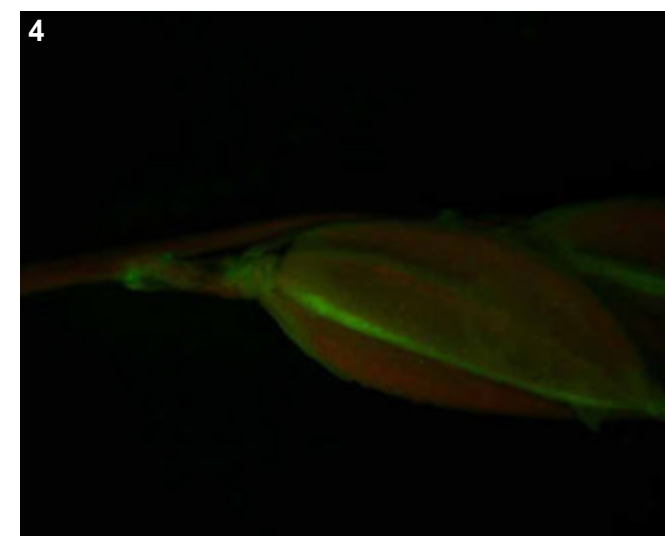
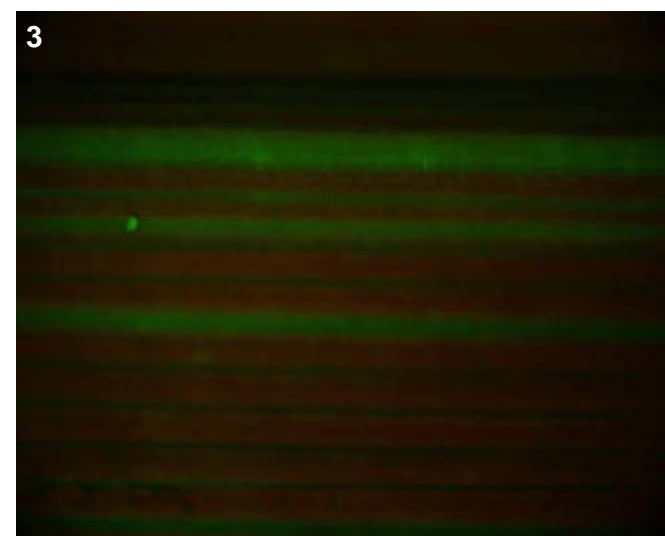
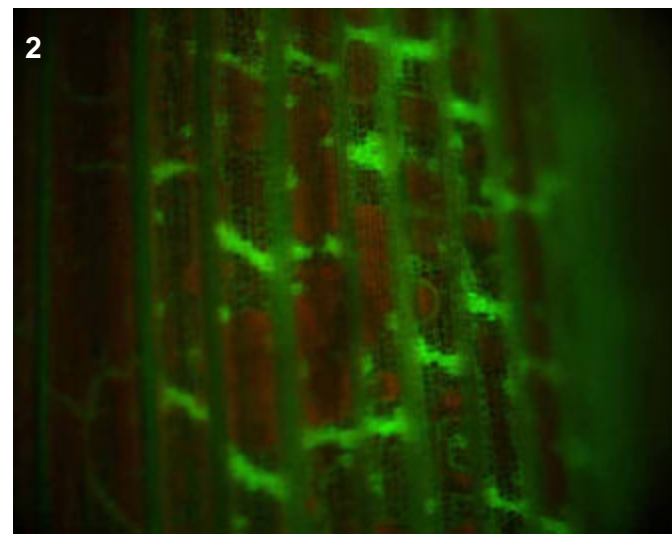
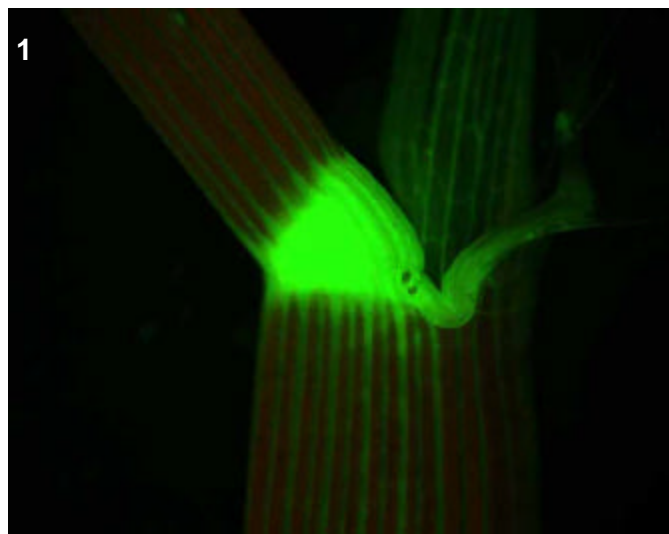
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong vascular line. Expression in collar, and in vascular of sheath, leaf and flower.

T1 seed comments

T1 seedling comments

Genotype: AOY E07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

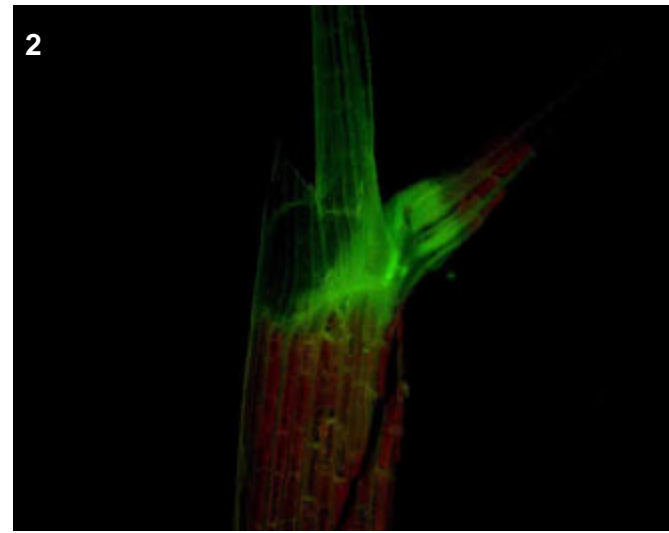
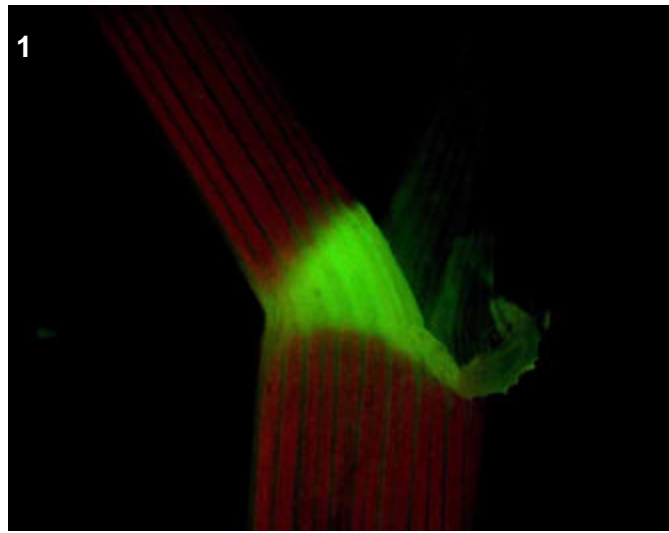
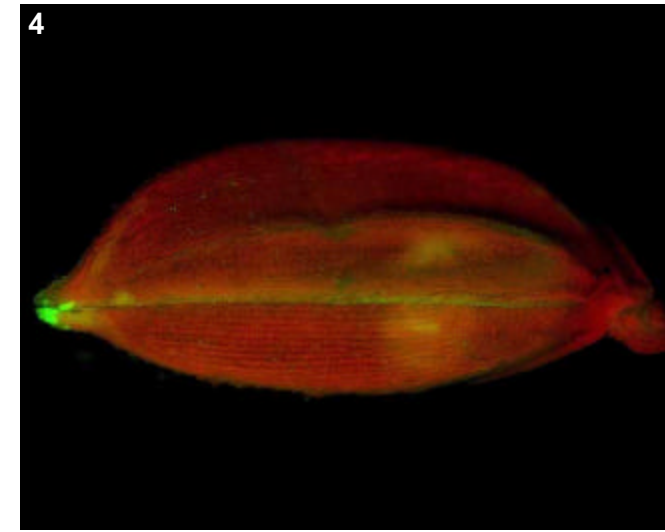
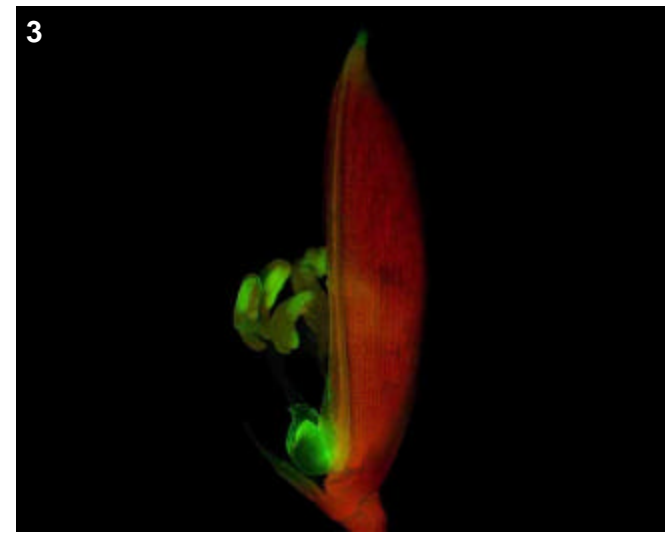
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression in collar, not the surrounding vascular of leaf and sheath. Also floral vascular expression and lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOY G01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

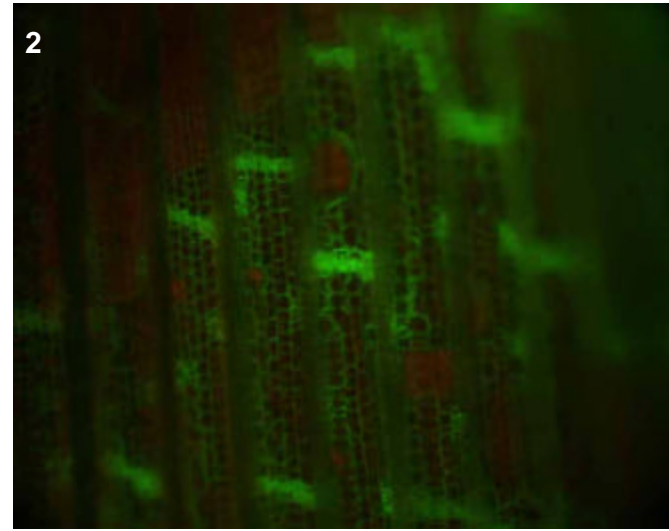
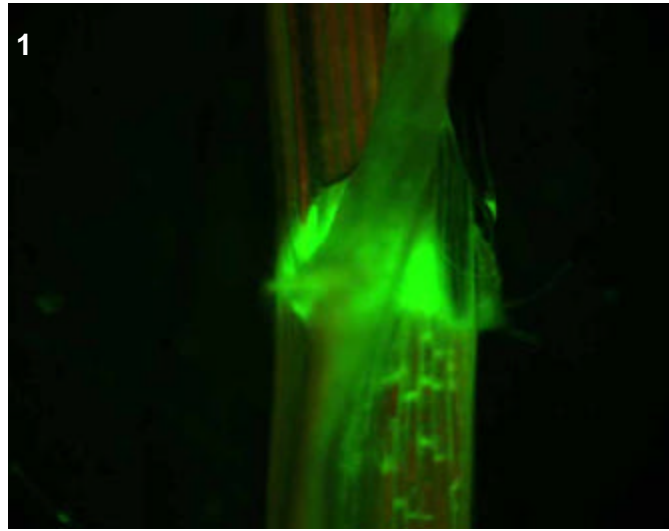
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

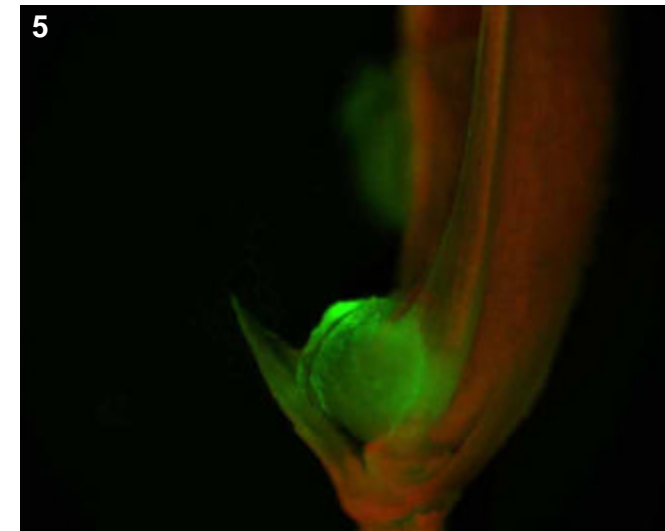
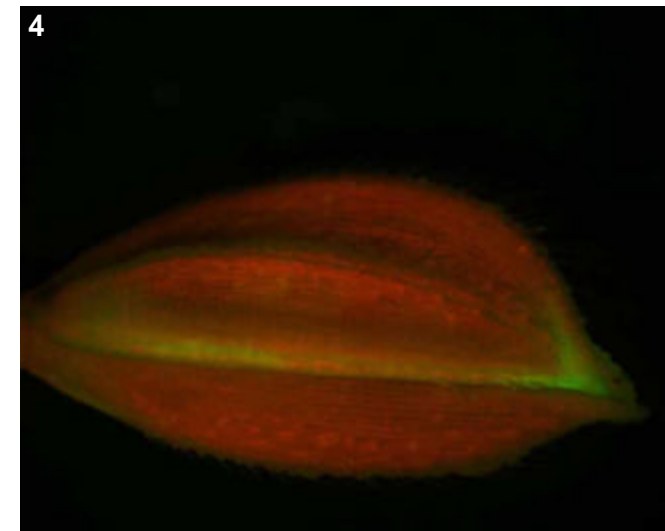
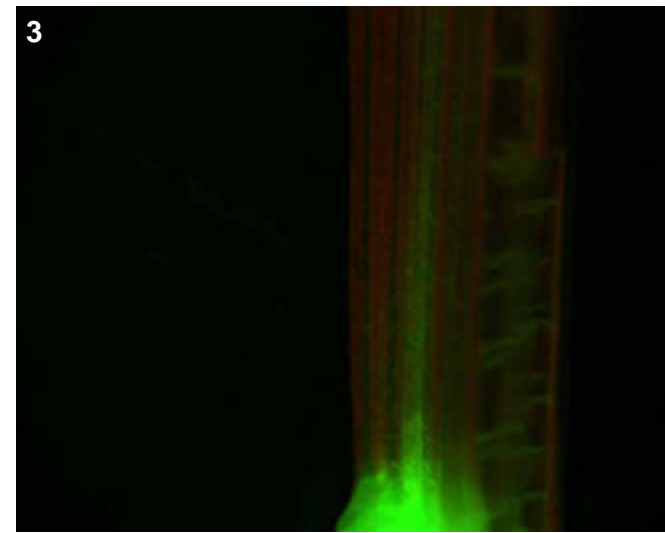


T0 comments

Strong vascular line with expression in collar and very much in the surrounding vascular areas of leaf and sheath. Also floral vascular expression as well as lodicules.

T1 seed comments

T1 seedling comments



Genotype: AOY G09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

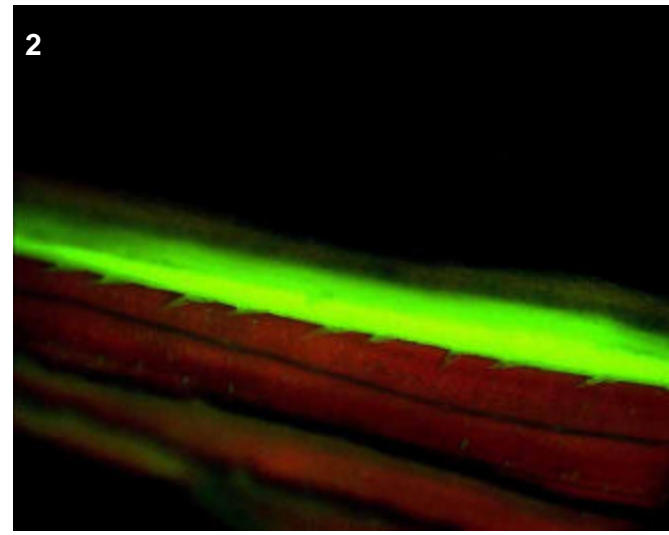
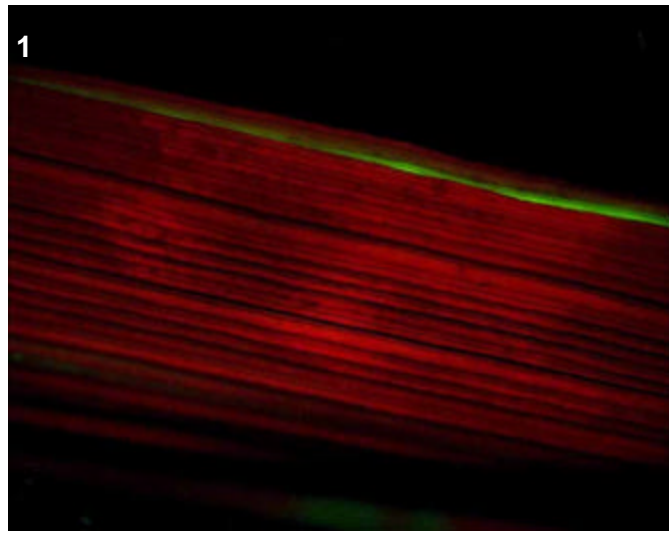
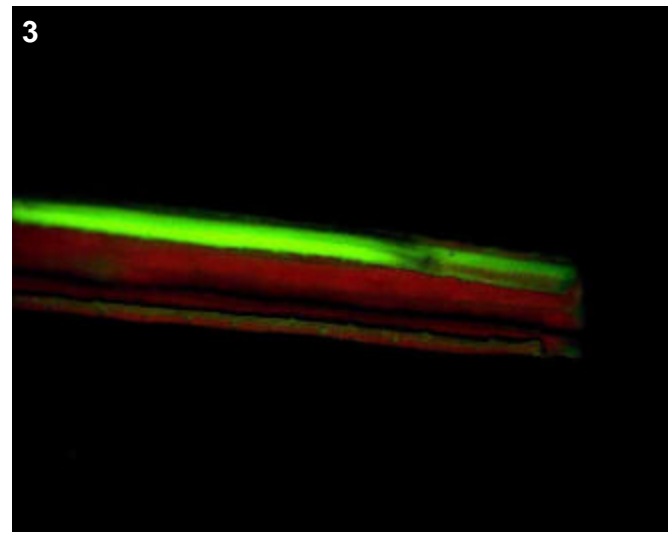
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

This could be an artifact I suppose, but bright expression one side (mostly) of vascular of leaf section.

T1 seed comments

T1 seedling comments

Genotype: AOZ A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

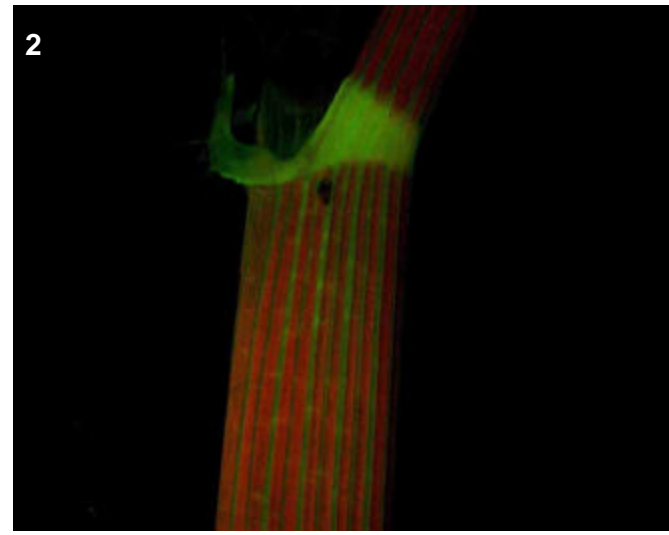
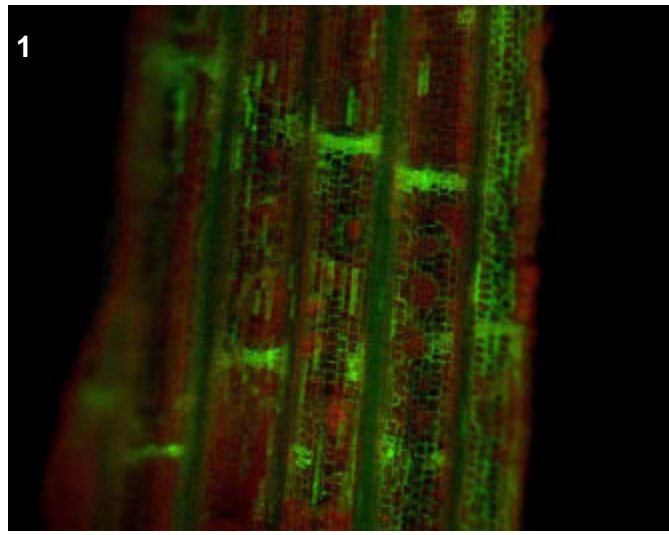
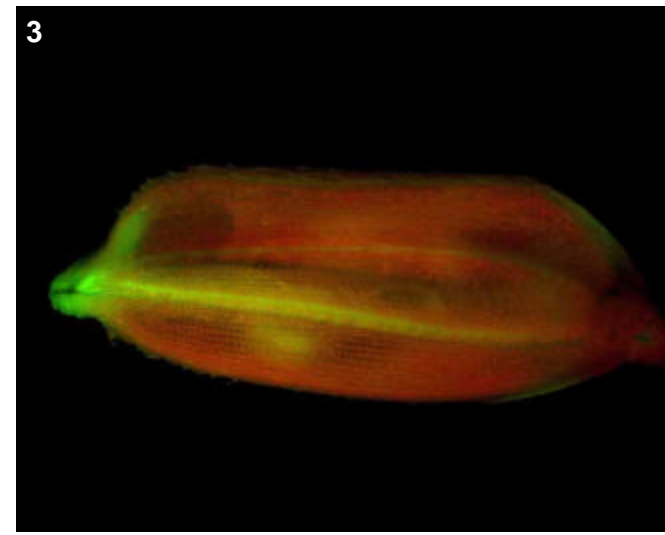
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong collar expression and sheath vascular, notice that sheath vascular has those horizontal elements again. Also floral vascular.

T1 seed comments

T1 seedling comments

Genotype: AOZ B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

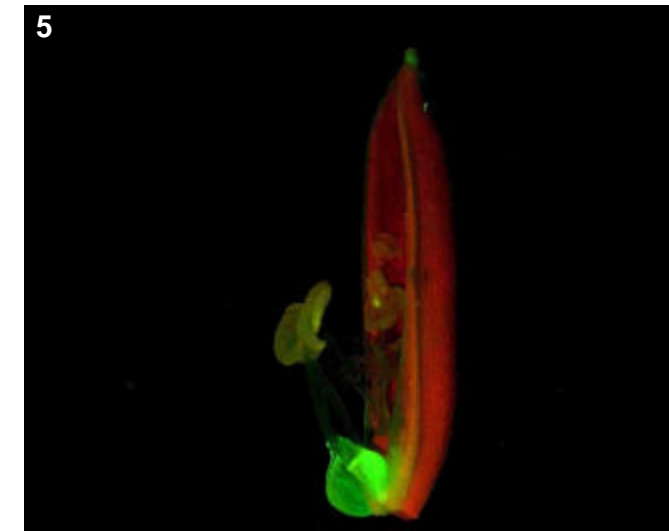
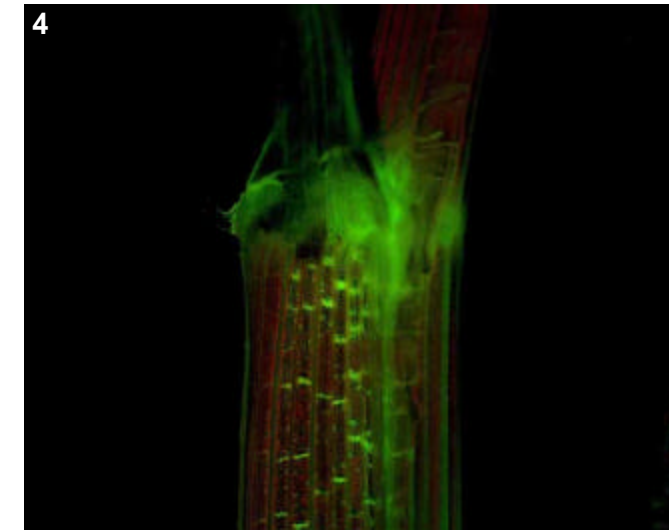
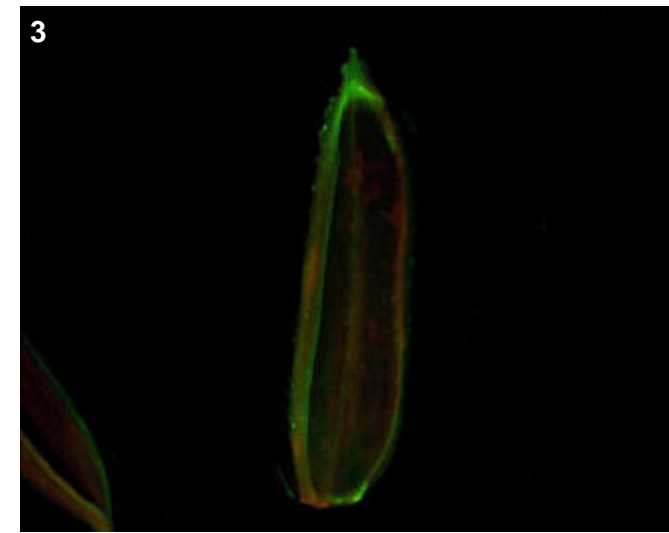
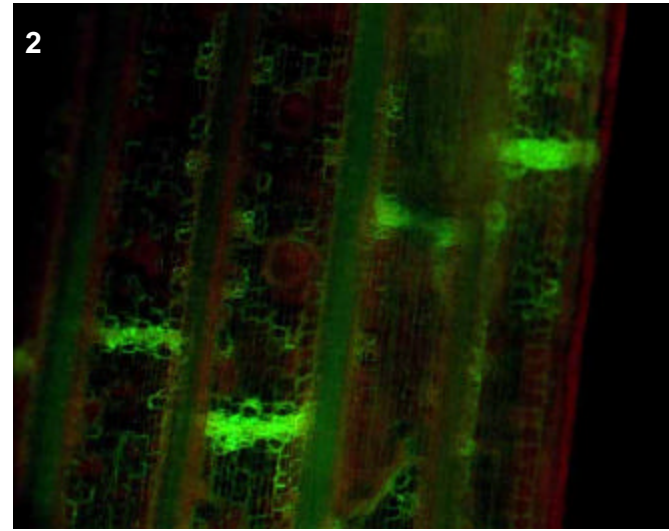
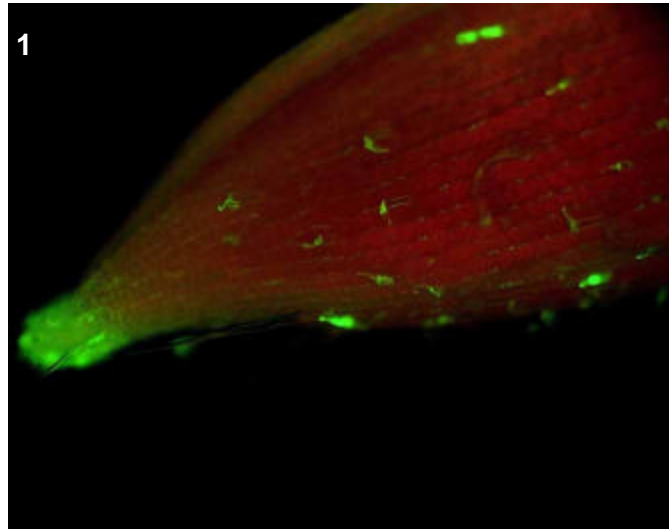
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments
 Expression bright in the collar and sheath vascular, floral vascular, lodicules and trichomes of lemma/palea.

T1 seed comments

T1 seedling comments

Genotype: AOZ B08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

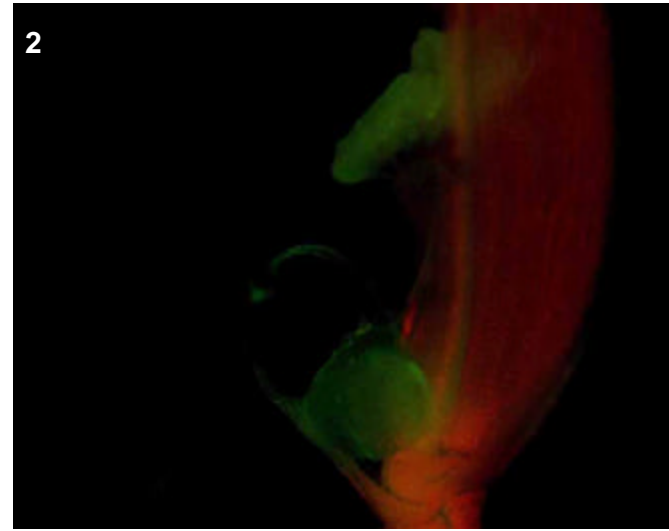
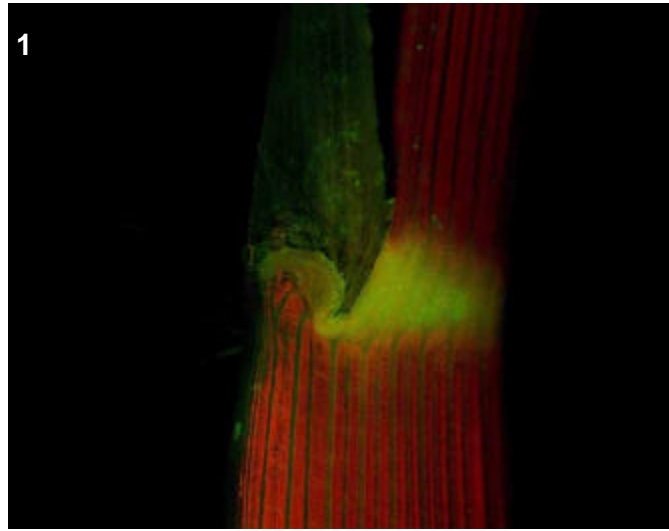
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in the collar and sheath vascular, weakly expressing in floral lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOZ D03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

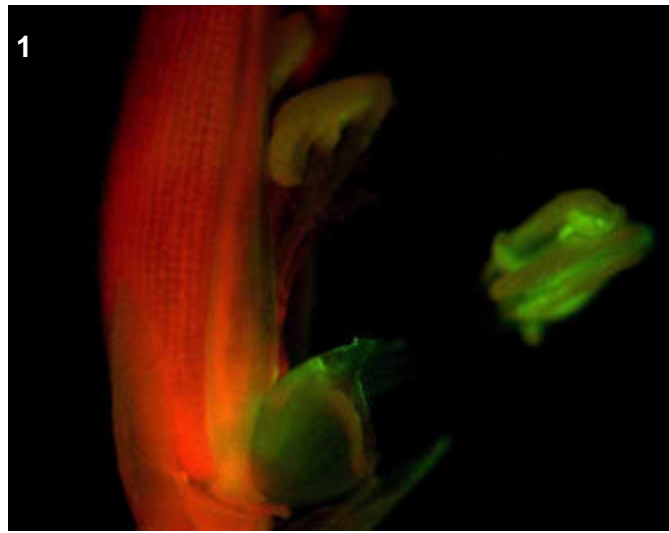
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Faint expression in the lodicules, and mostly in the tips of lodicules. Also patchy expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AOZ D12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

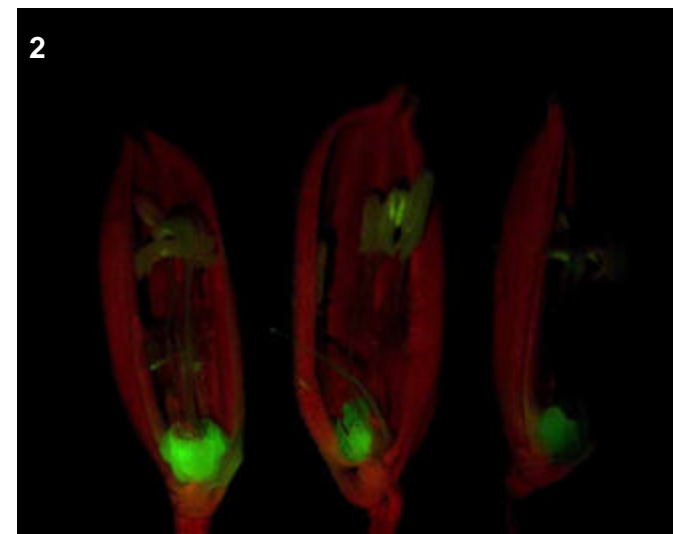
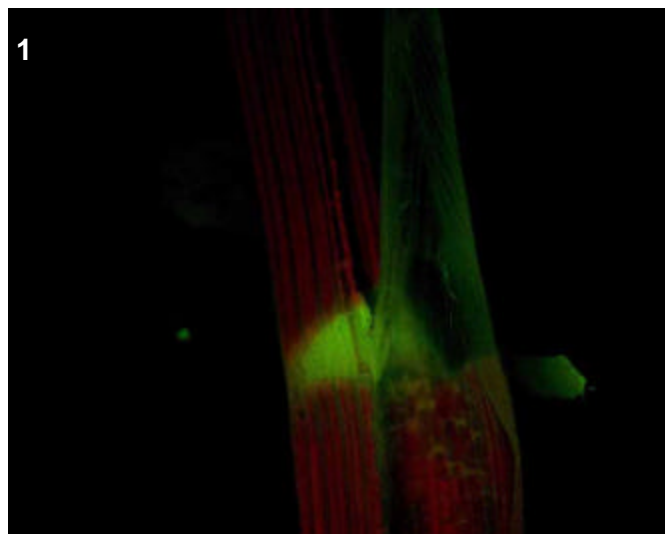
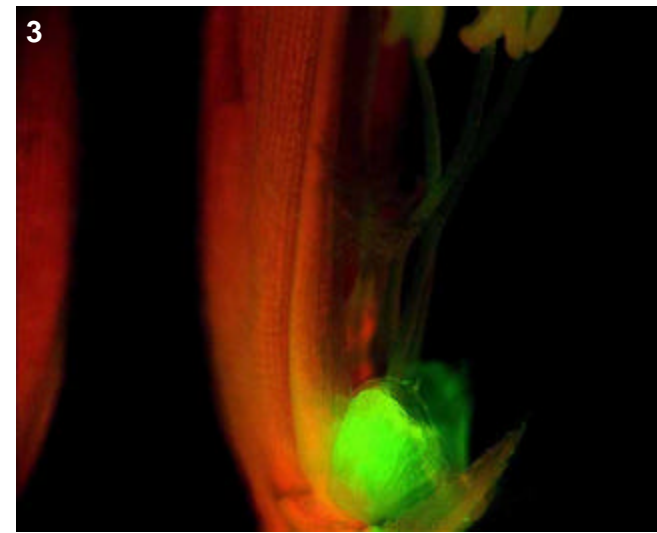
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong expression in the collar and in the floral lodicules.

T1 seed comments

T1 seedling comments

Genotype: AOZ E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

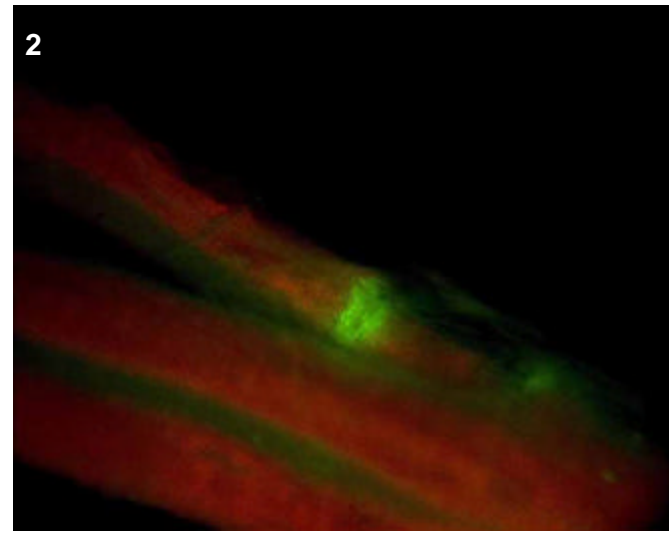
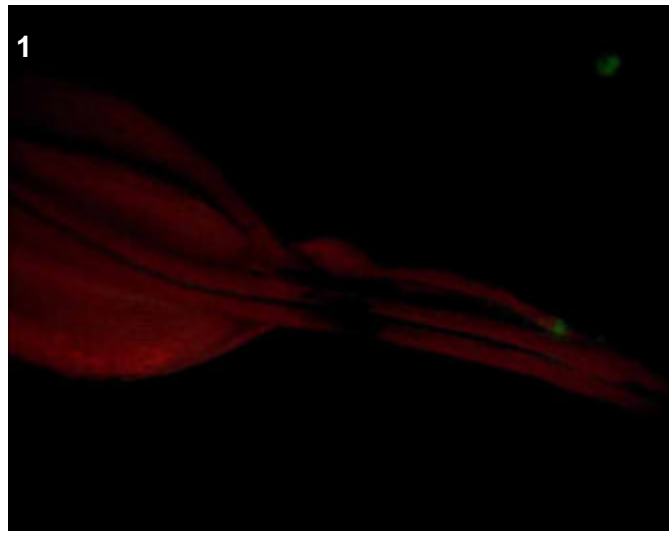
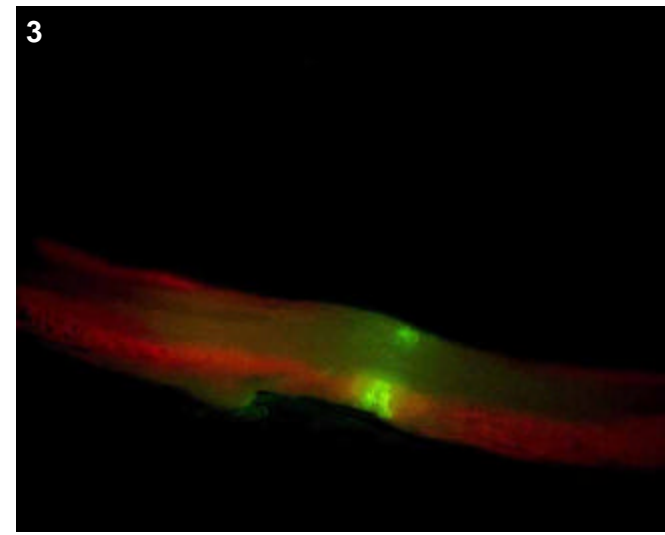
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong band at the base of the pedicel, especially strong in the younger flowers.

T1 seed comments

T1 seedling comments

Genotype: AOZ F11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

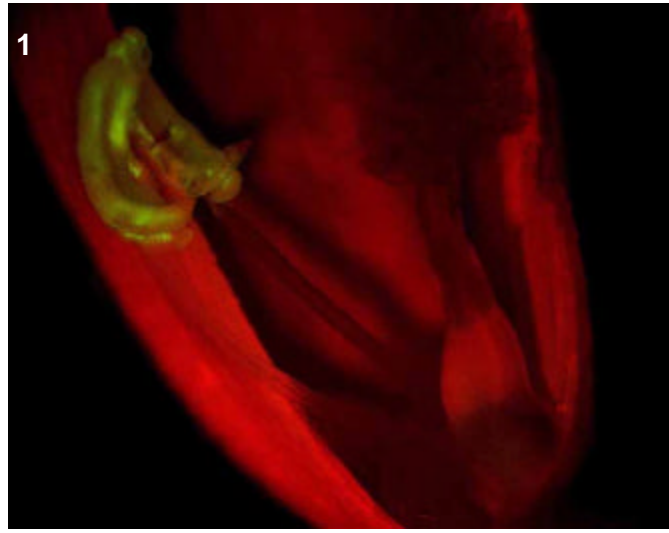
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Moderate anther wall expression.

T1 seed comments

T1 seedling comments

Genotype: AOZ G08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

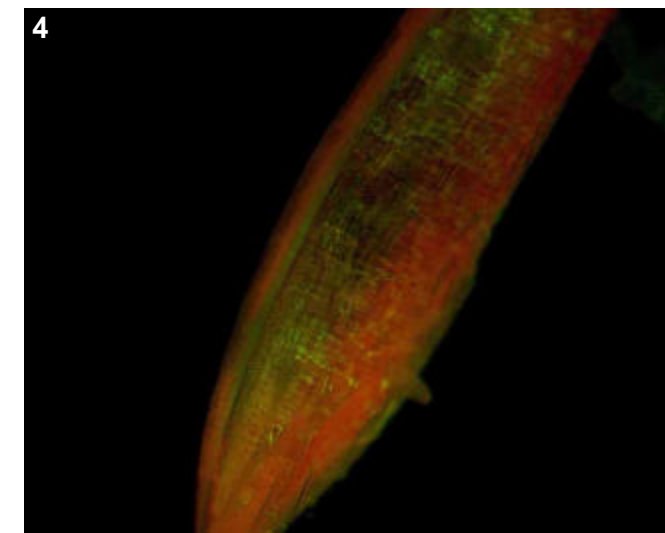
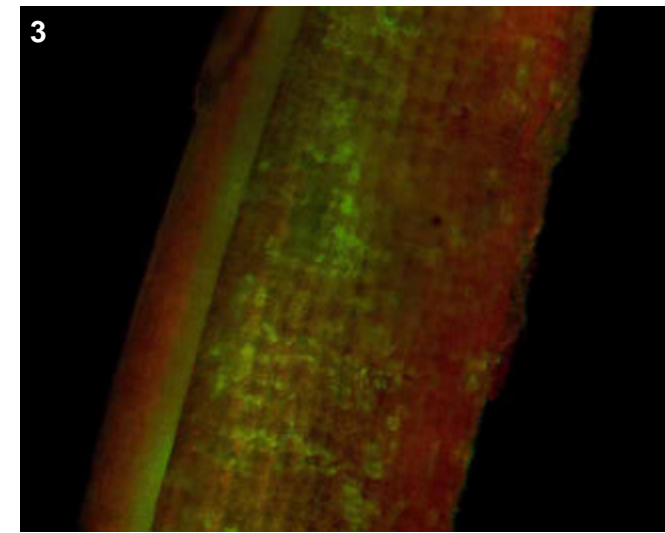
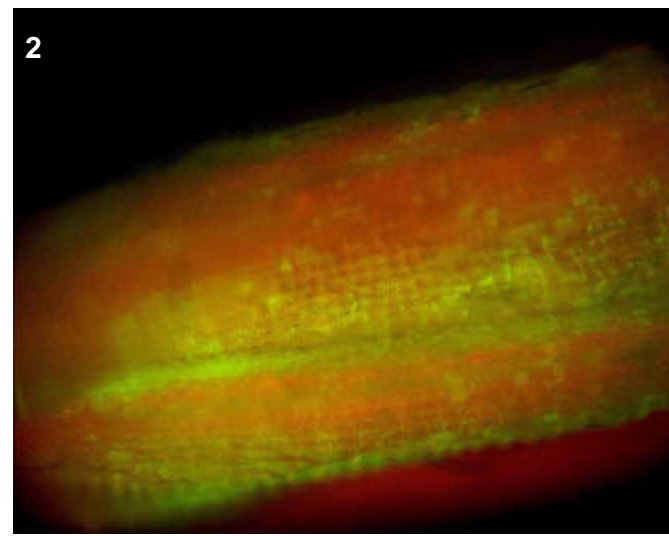
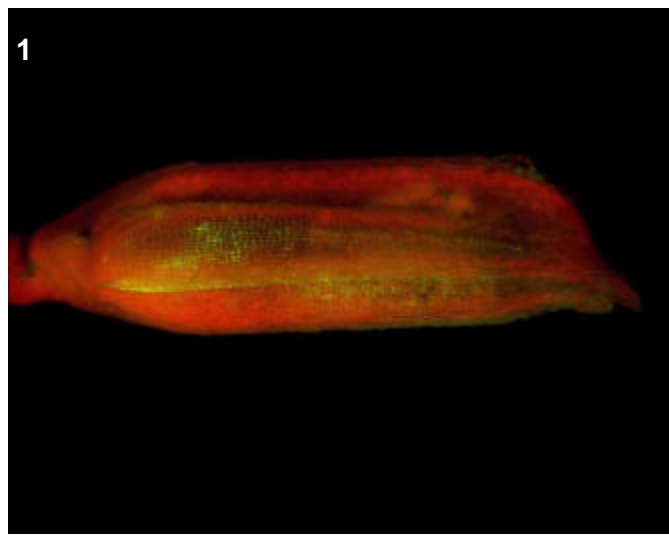
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Interesting line because expression appears to be diffuse throughout the lemma and palea. Not sure exactly what cells it is being expressed in, but there is little if any expression in the vascular tissue.

T1 seed comments

T1 seedling comments

Genotype: AOZ H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

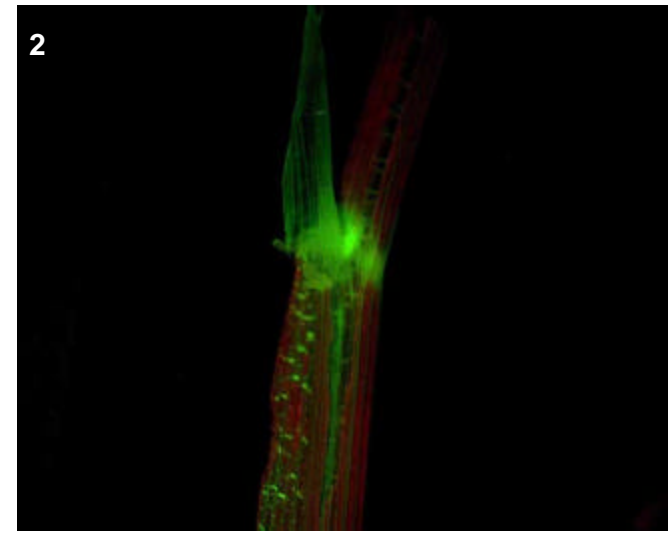
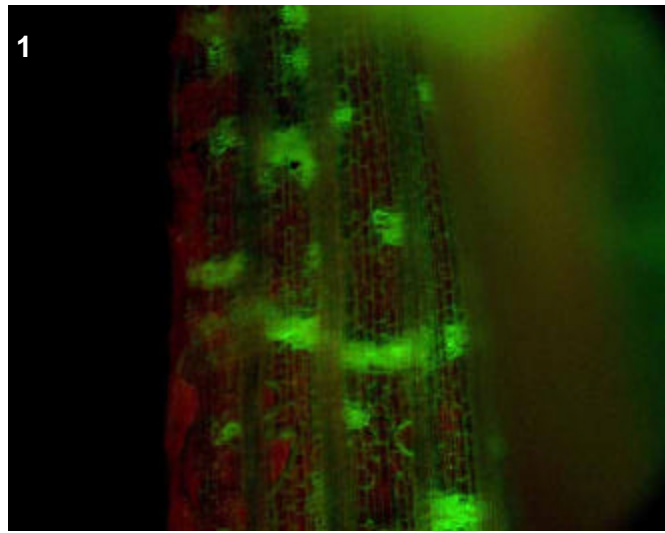
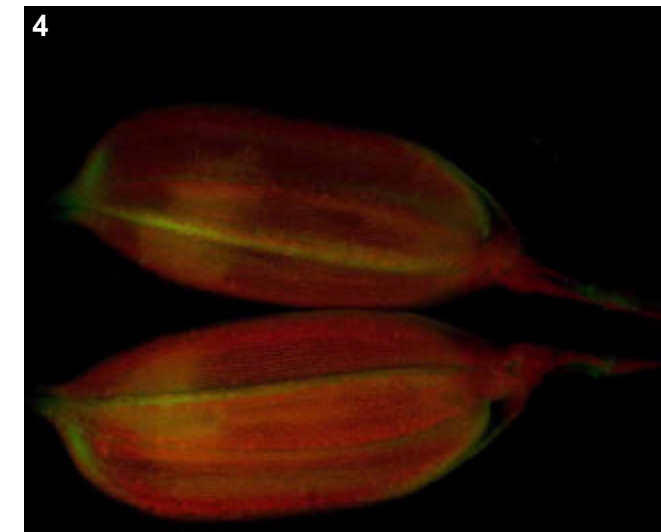
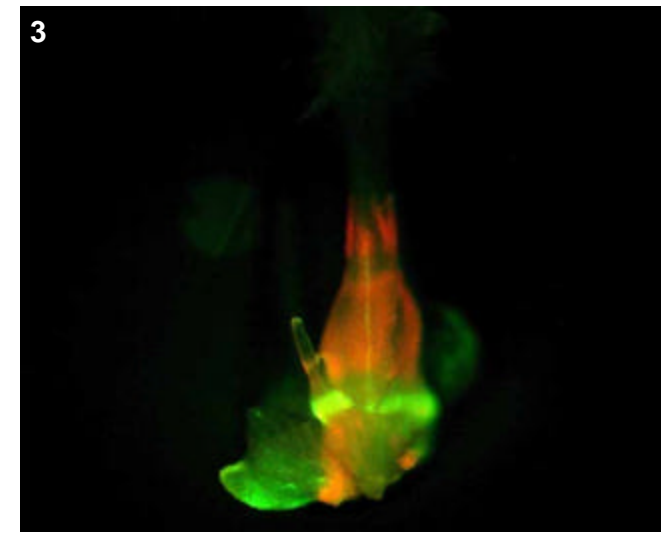
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in collar and sheath vascular, small amount in leaf vascular. Also expression in base of carpel and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: APA A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

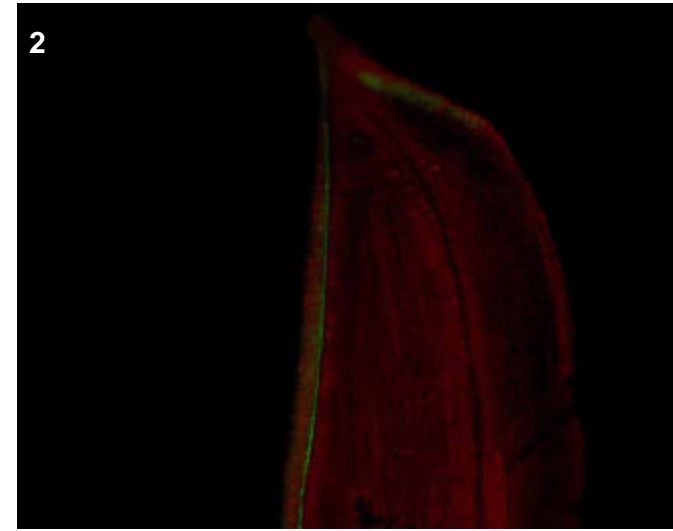
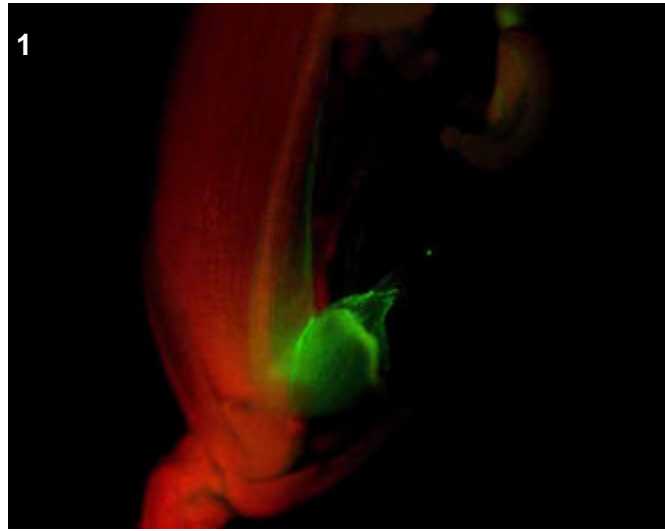
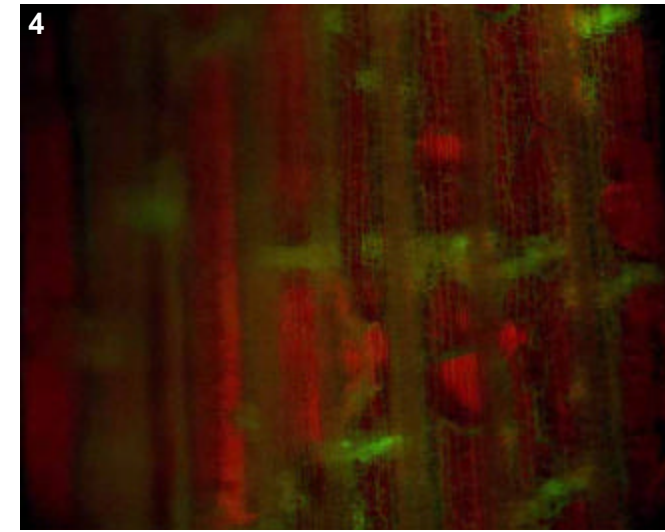
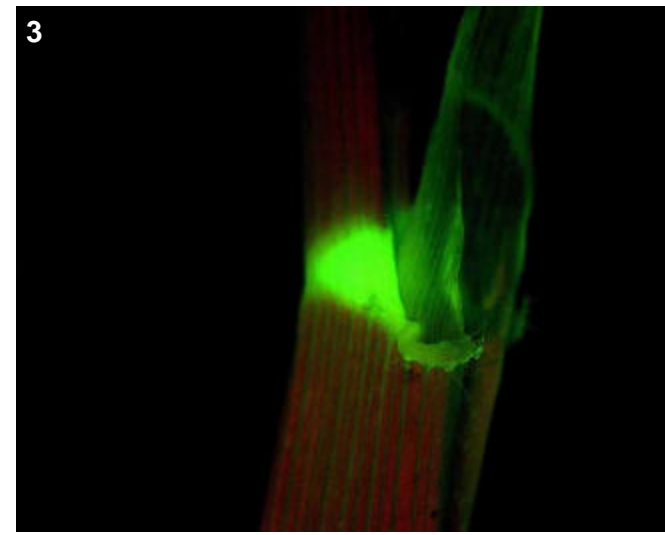
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? YES, 2 plants Confocal?

Number T2 seed produced: 11



T0 comments

Bright expression in collar and sheath vascular. Moderate expression in floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: APA A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

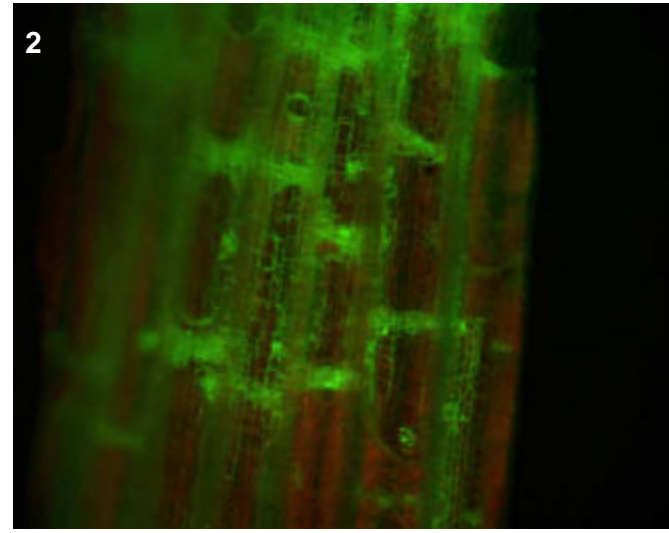
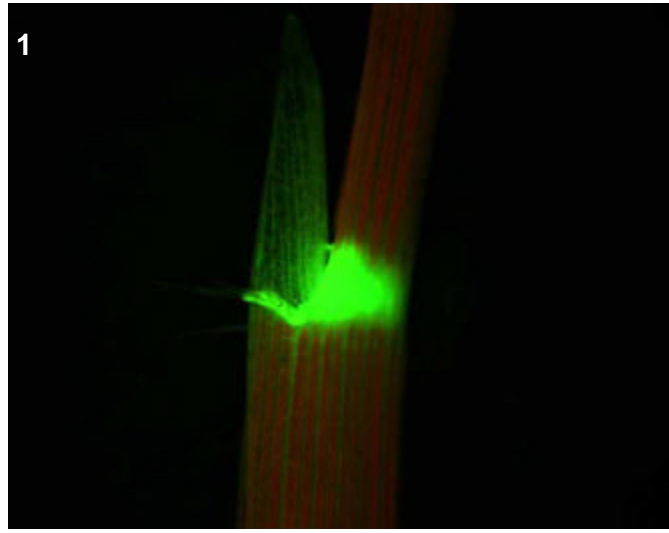
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:

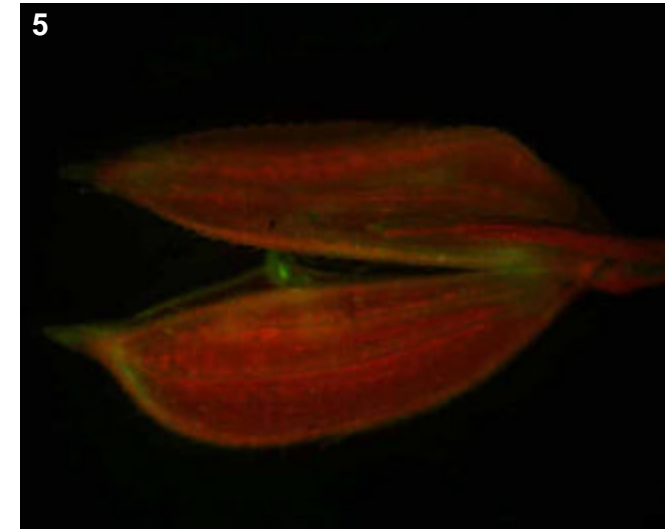
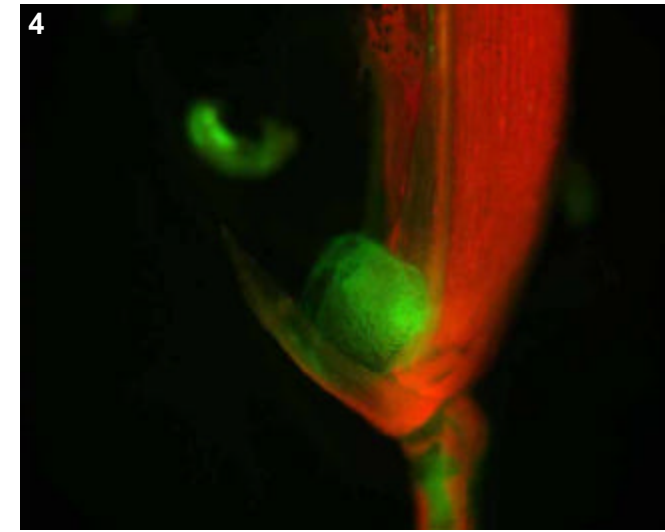
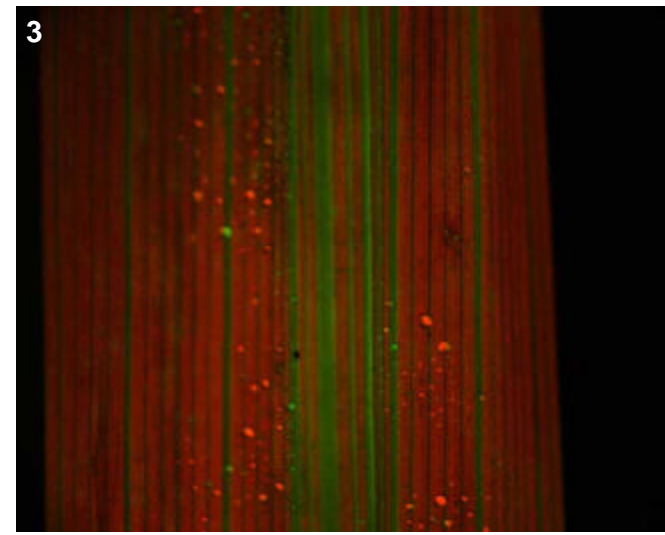


T0 comments

Extremely bright collar and leaf vascular. Moderate expression in sheath vascular, floral vascular and lodicules.

T1 seed comments

T1 seedling comments



Genotype: APA B03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

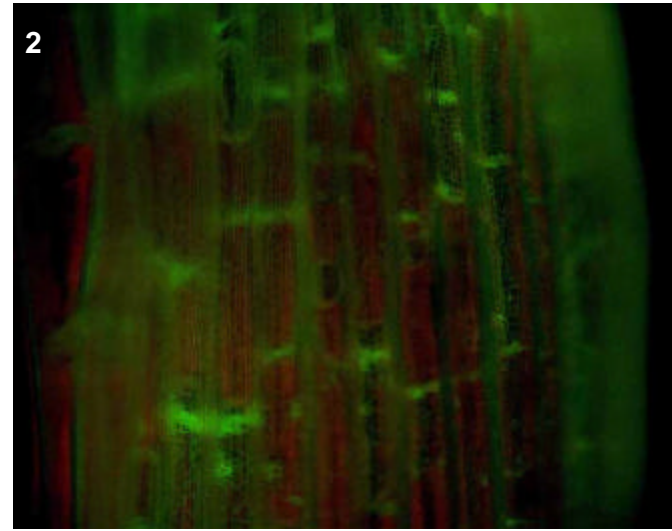
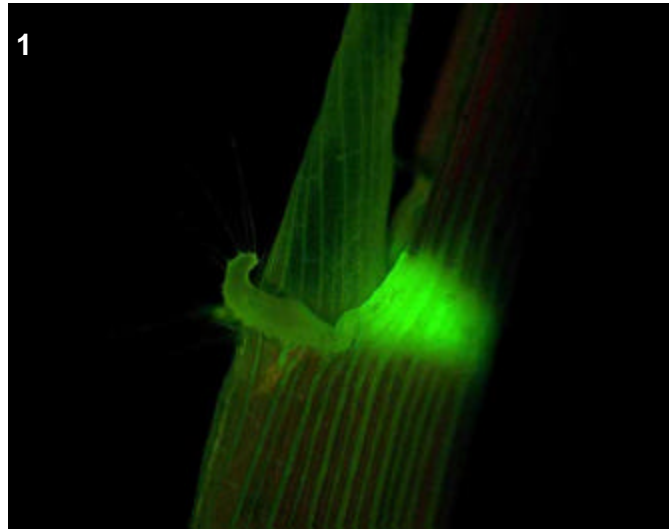
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants Confocal?

Number T2 seed produced: 90



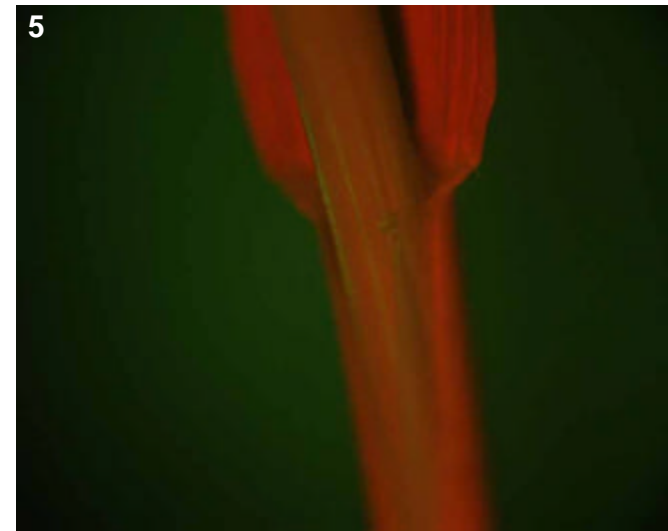
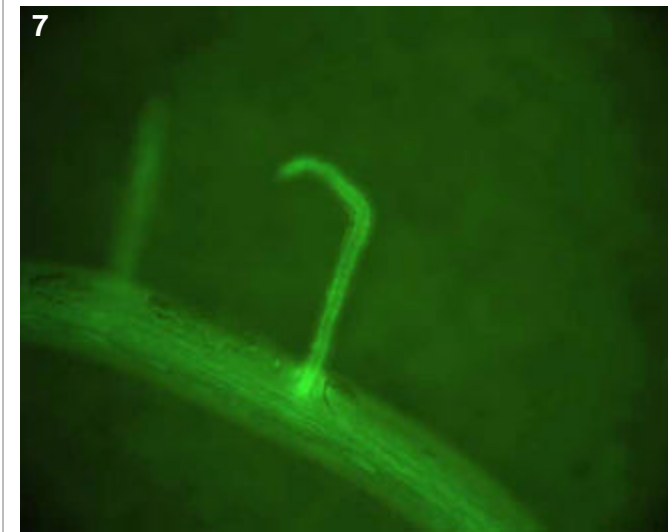
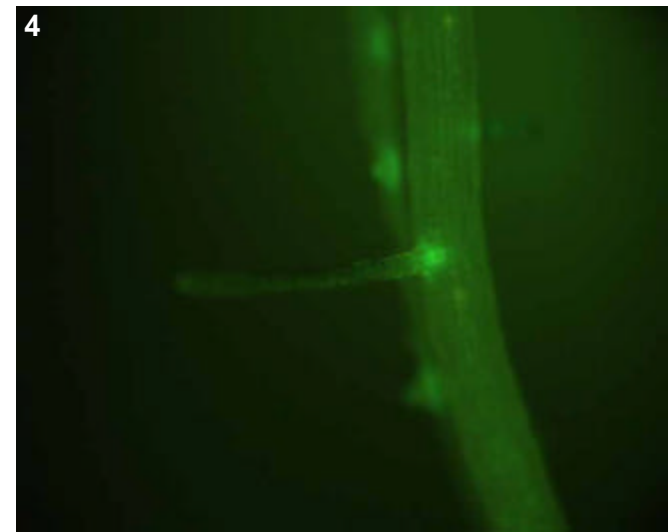
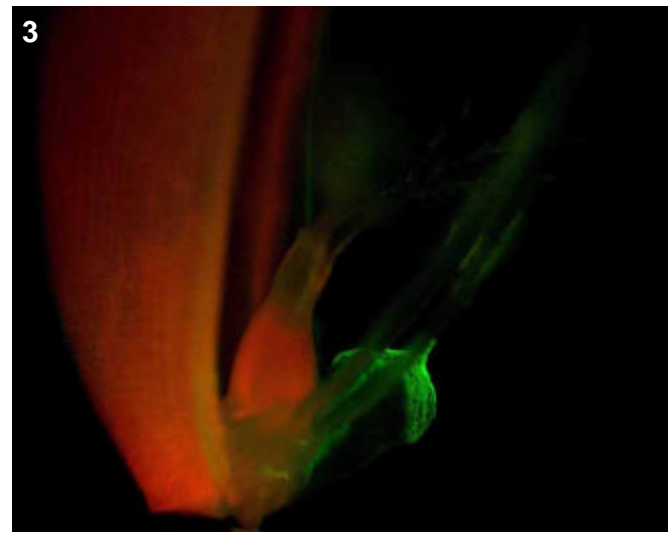
T0 comments

Expression in collar and sheath vascular, as well as lodicules.

T1 seed comments

T1 seedling comments

Shoot vascular expression but collar shows no GFP.



Genotype: APA B06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

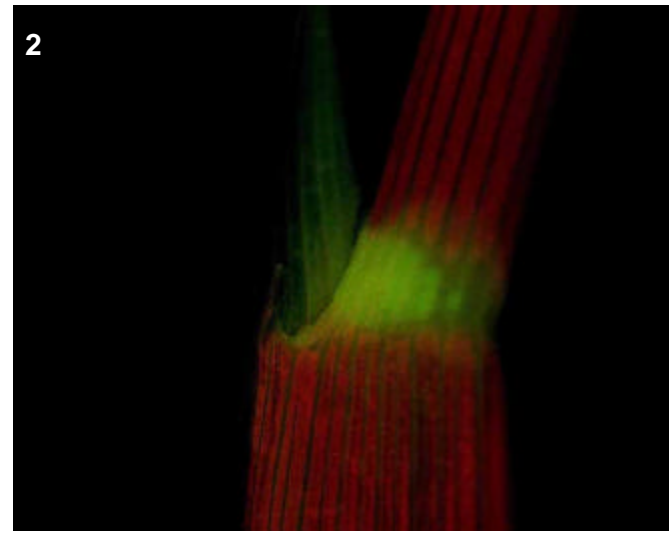
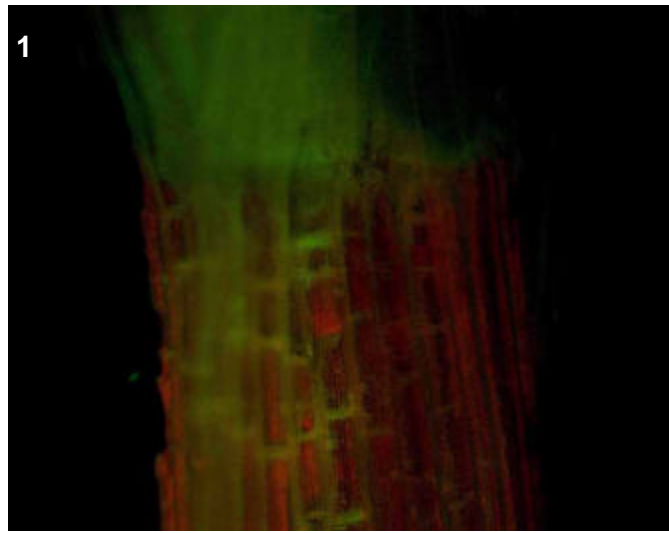
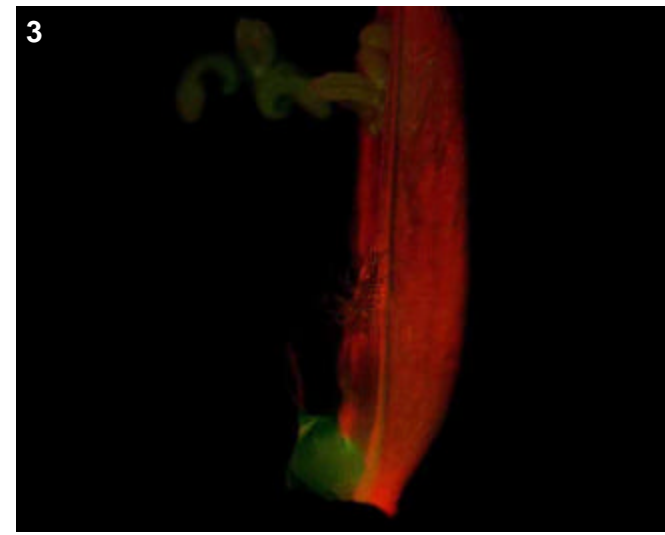
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Bright expression in collar, weak expression in sheath vascular. Also weak expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: APA B10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

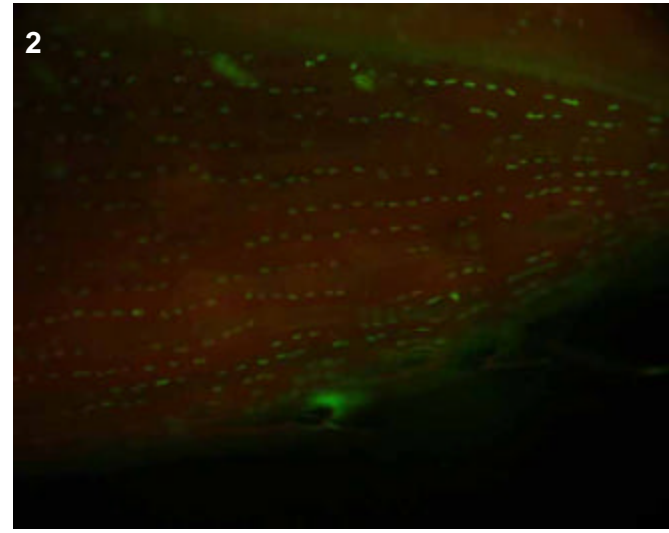
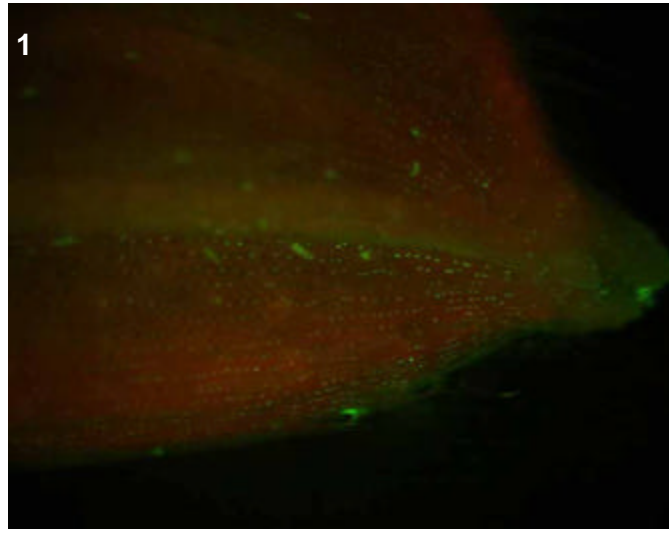
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression only in the floral stomata and trichomes

T1 seed comments

T1 seedling comments

Genotype: APA C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

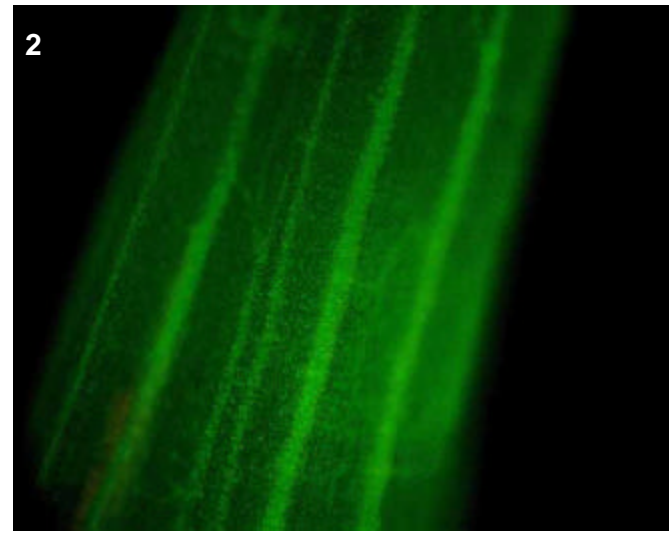
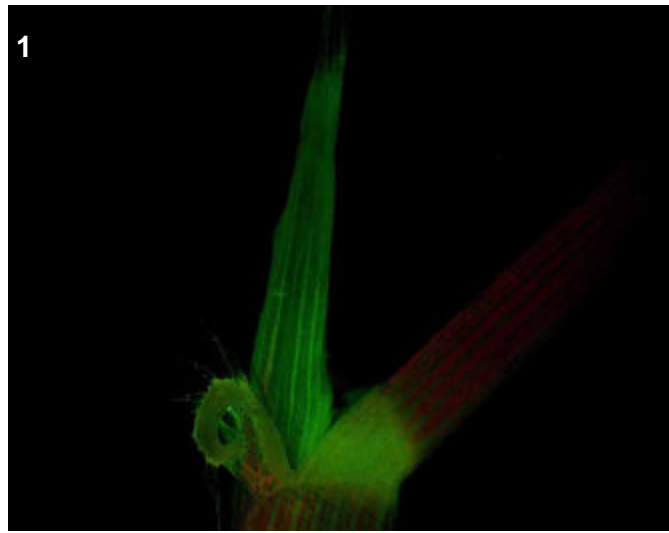
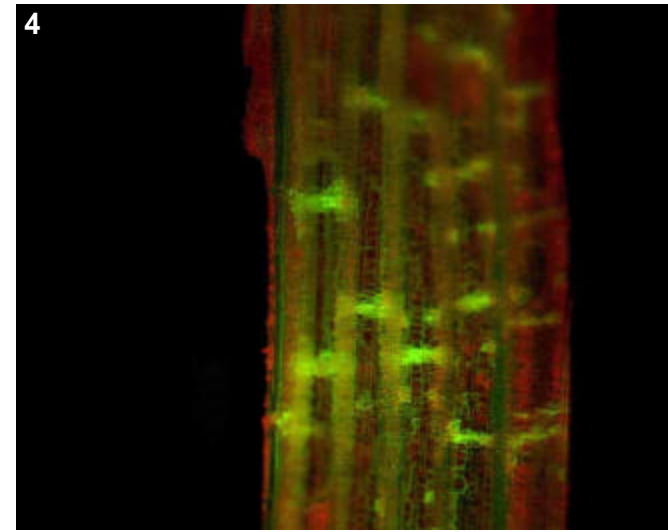
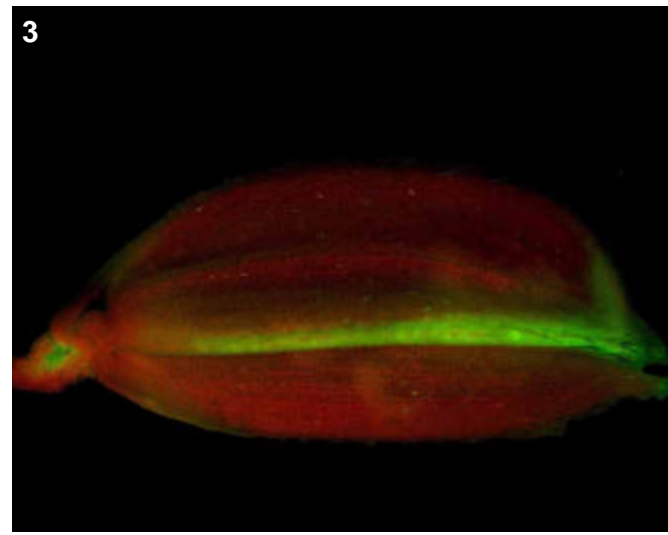
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

No expression in the collar, but bright expression in the ligule. Also expression in sheath vascular and floral vascular. Trichomes on the lemma/palea also appeared bright.

T1 seed comments

T1 seedling comments

Genotype: APA D09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

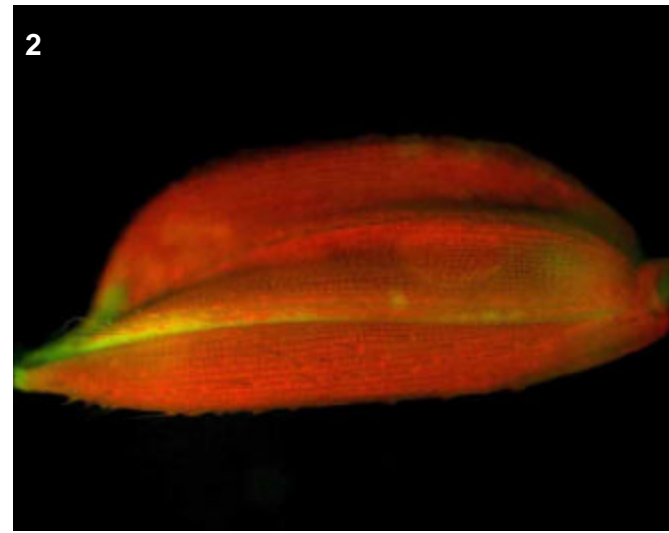
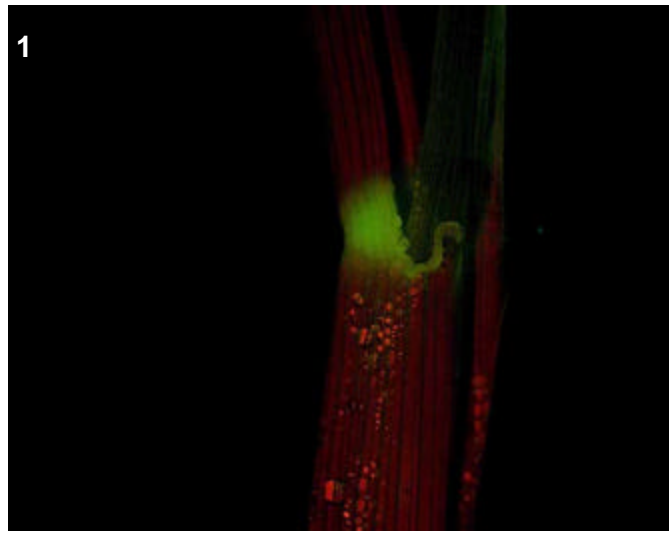
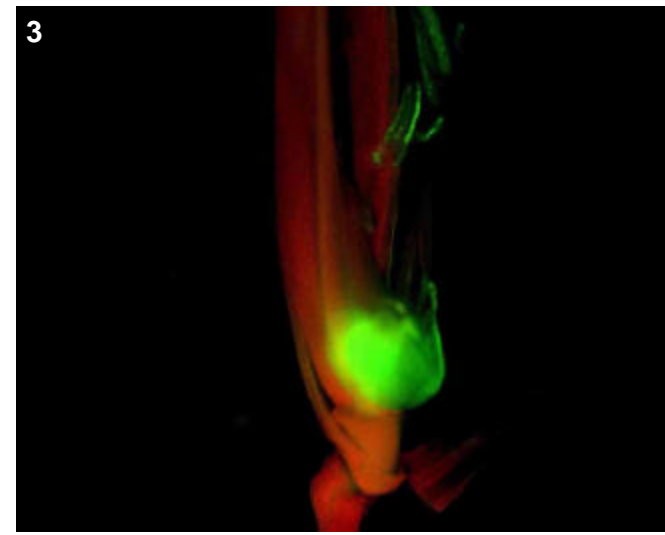
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright expression in collar but not surrounding leaf or sheath vascular. Also expression in floral vascular, lodicules and anthers.

T1 seed comments

T1 seedling comments

Genotype: APA E08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

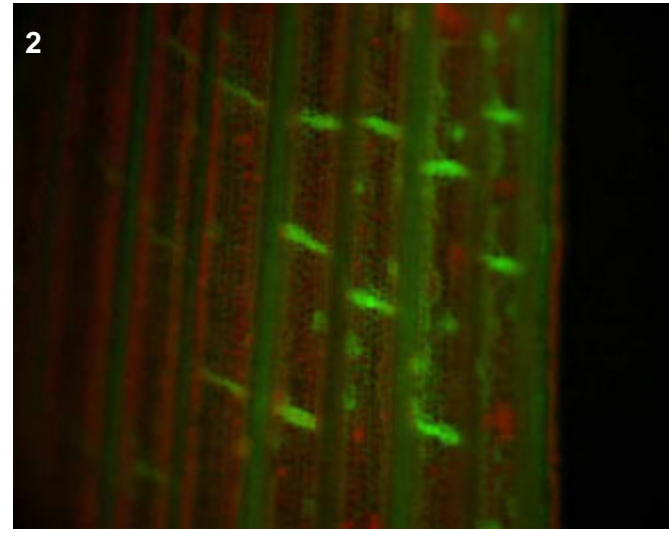
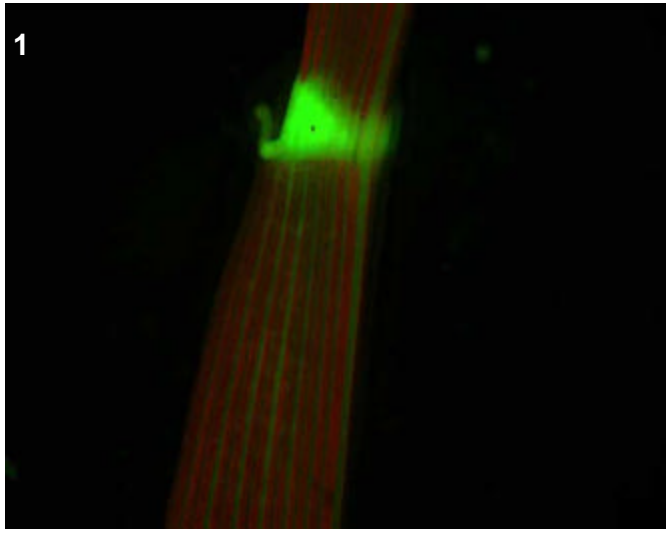
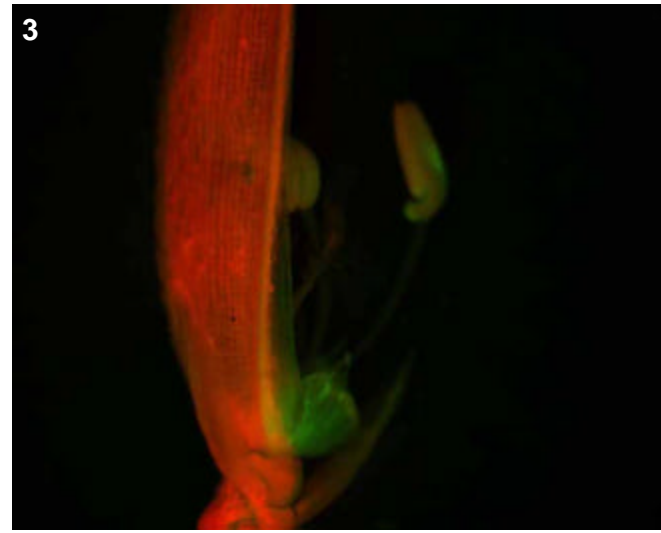
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Very bright expression in collar and sheath vascular. Also moderate expression in lodicules of younger flowers.

T1 seed comments

T1 seedling comments

Genotype: APA F11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

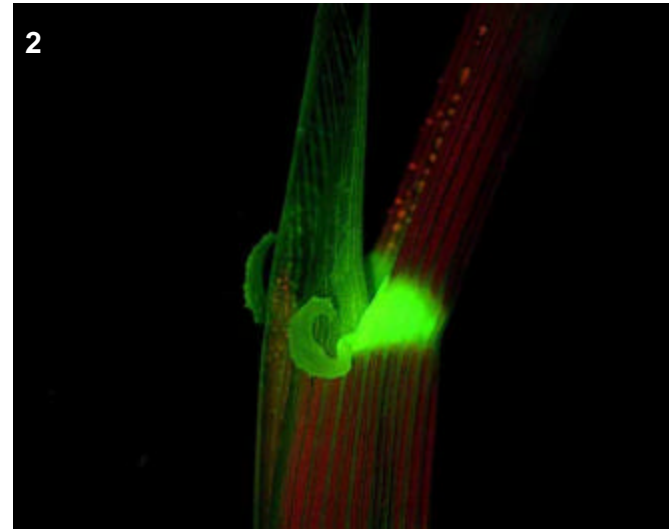
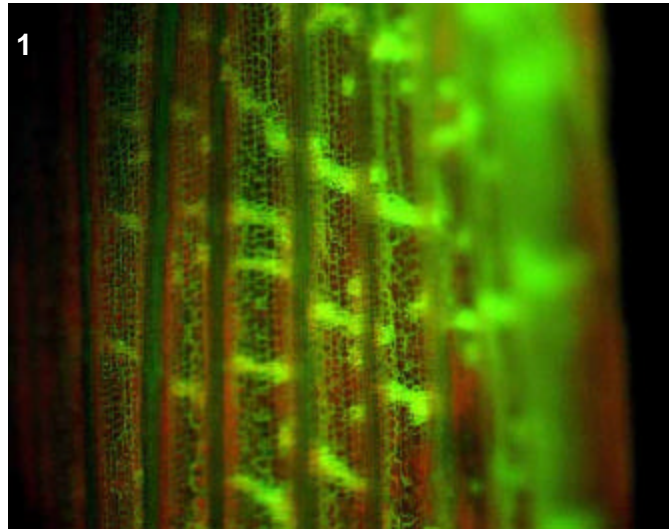
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:

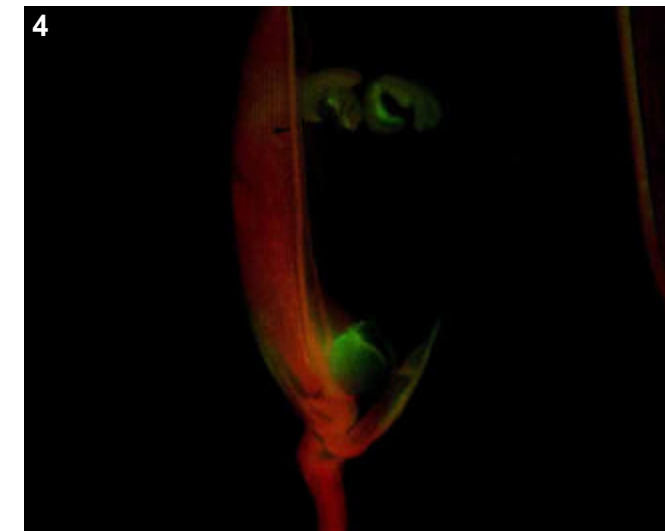
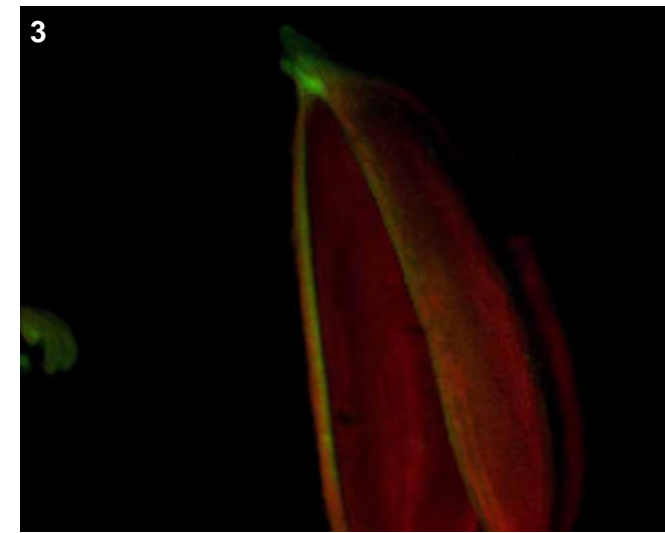


T0 comments

Strong expression in the collar and surrounding sheath vascular. Weak expression in floral vascular and lodicules.

T1 seed comments

T1 seedling comments



Genotype: APA F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

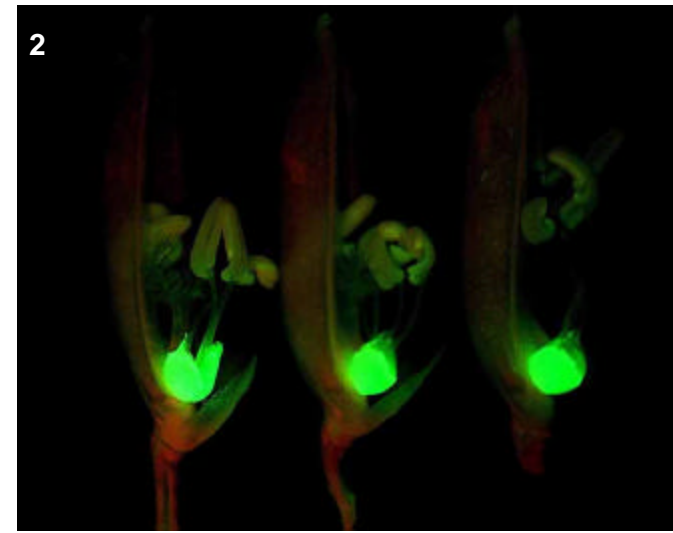
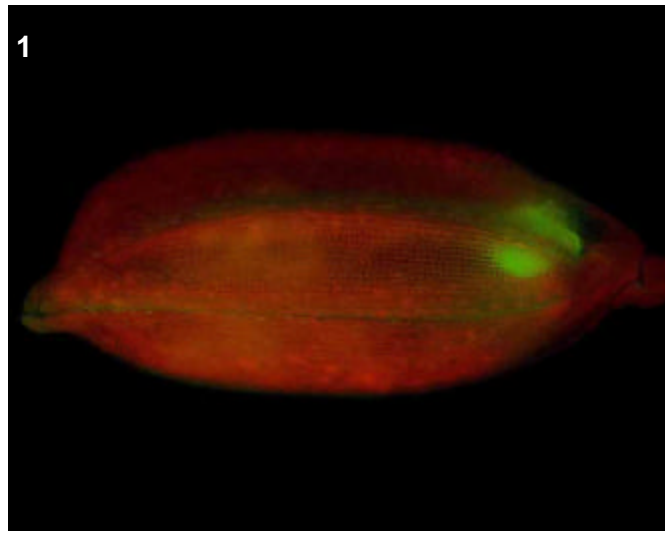
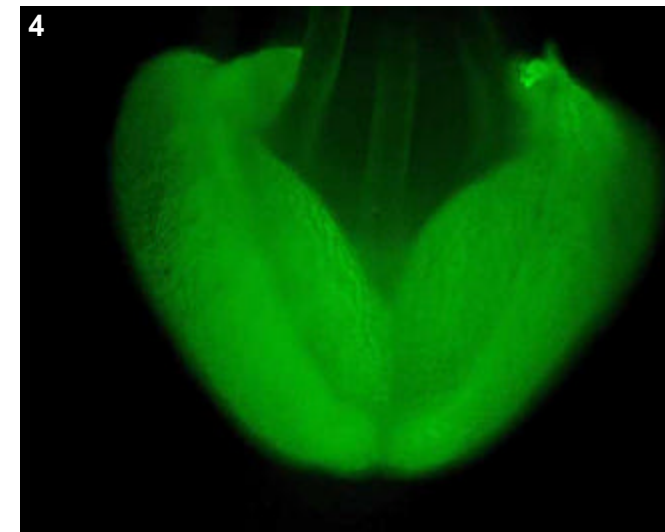
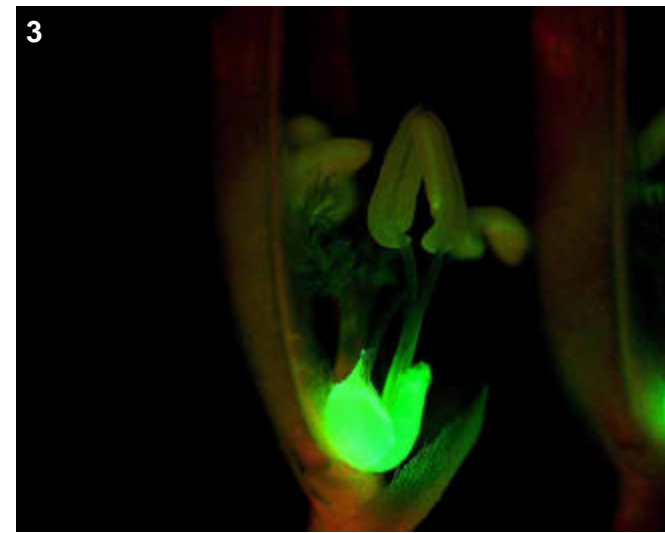
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Extremely bright expression (easily visible through unopened flower) in only the lodicule of flowers.

T1 seed comments

T1 seedling comments

Genotype: APA H01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

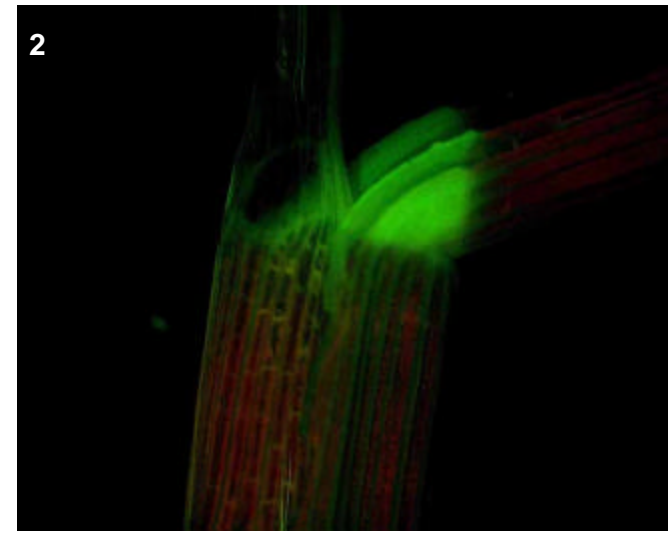
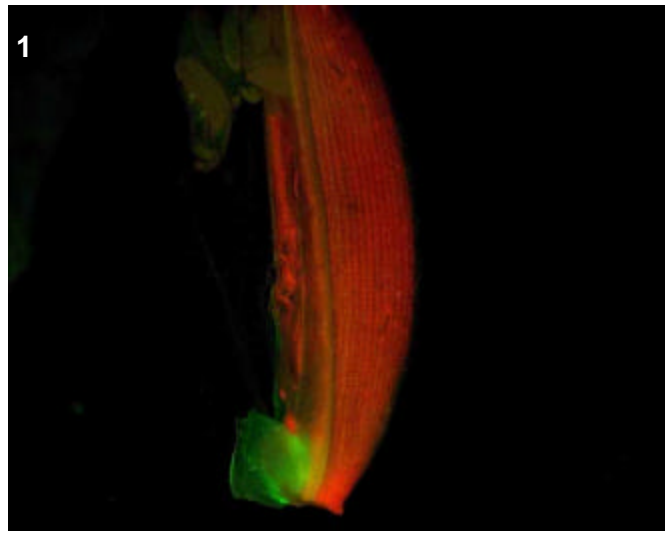
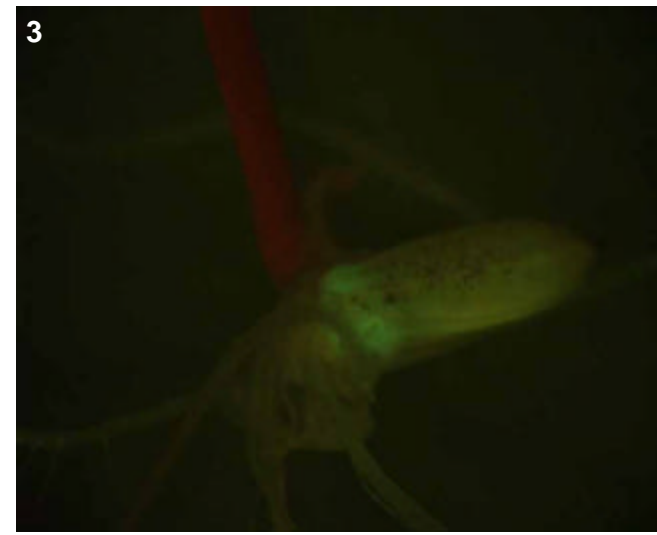
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 57



T0 comments

Bright expression in collar, sheath vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: APA H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse?

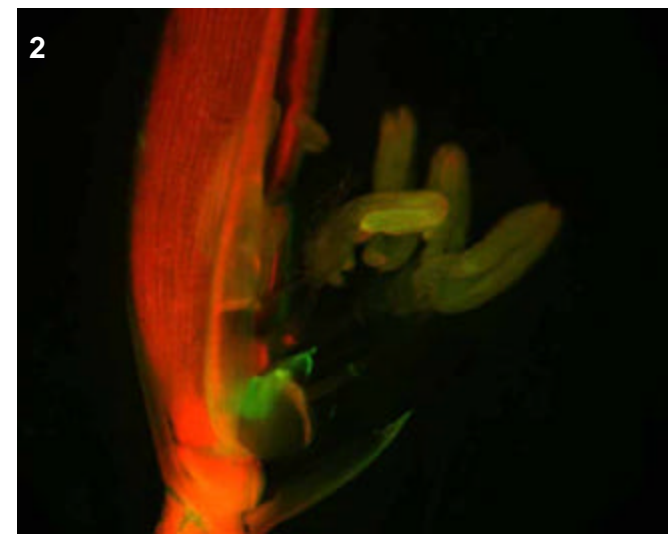
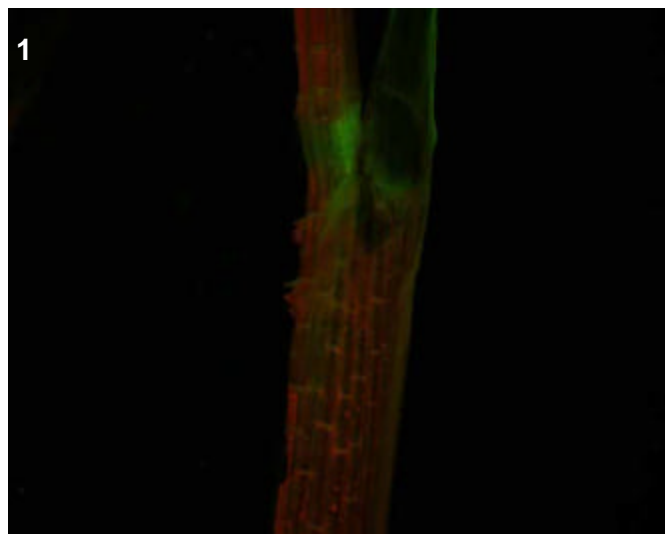
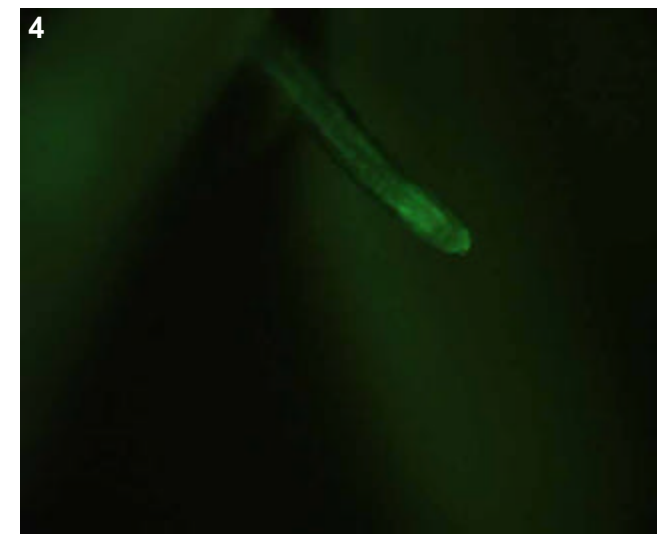
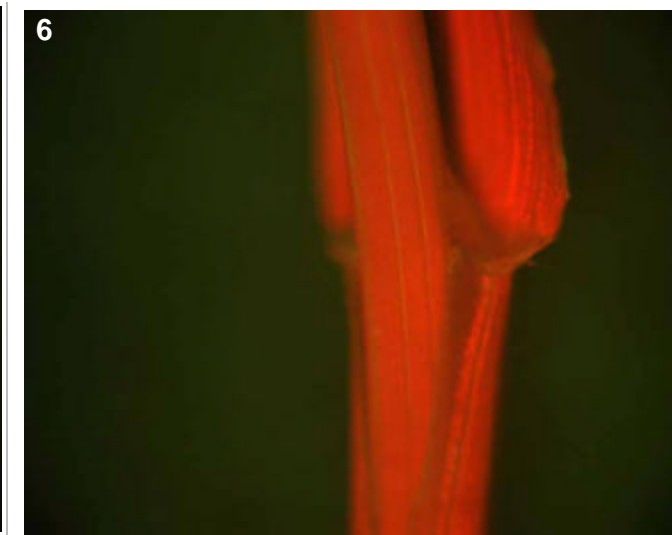
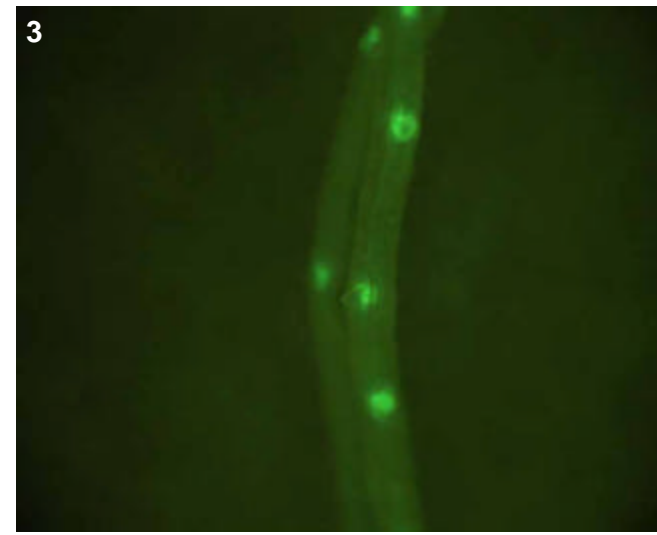
YES, 1 GFP+ plant

Confocal?

YES

Number T2 seed produced:

48



T0 comments

T1 seed comments

3/5 seeds show bright expression in embryo.

T1 seedling comments

In roots, expression specific to the emerging lateral roots. Perhaps some vascular activity in the shoot and endosperm.

Genotype: APB B02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling: 6-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

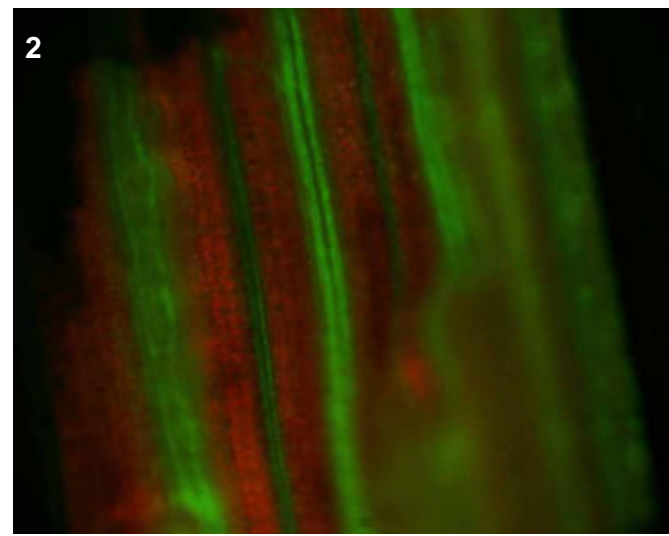
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 125



T0 comments

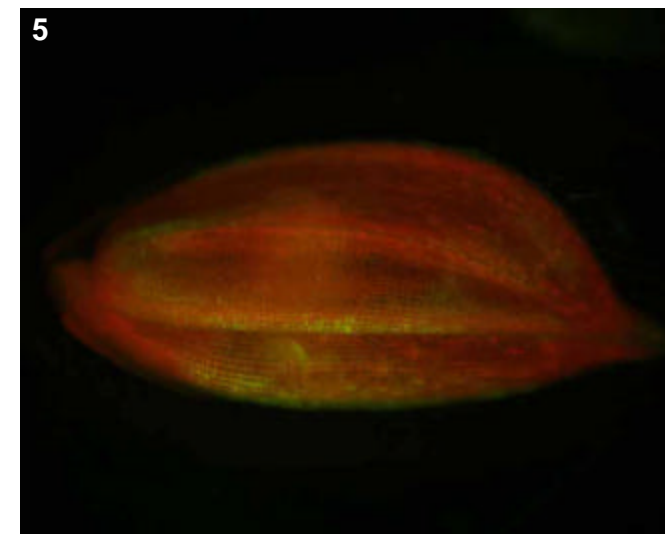
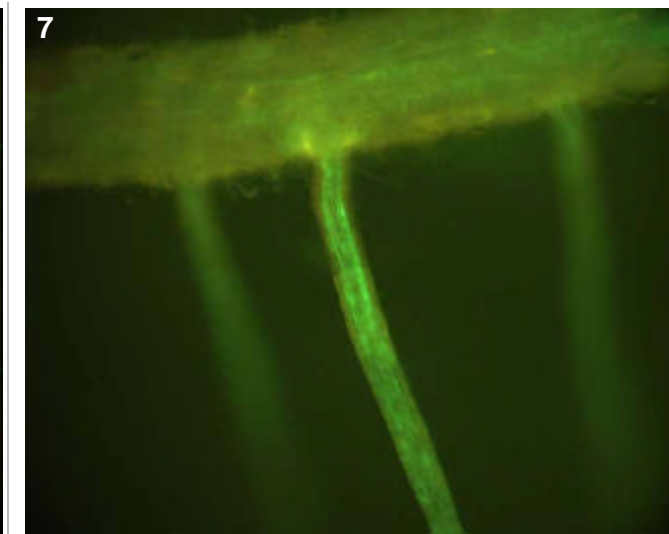
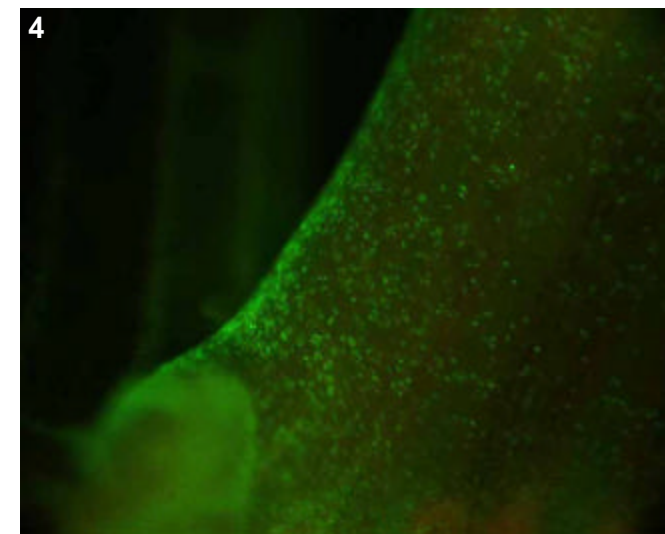
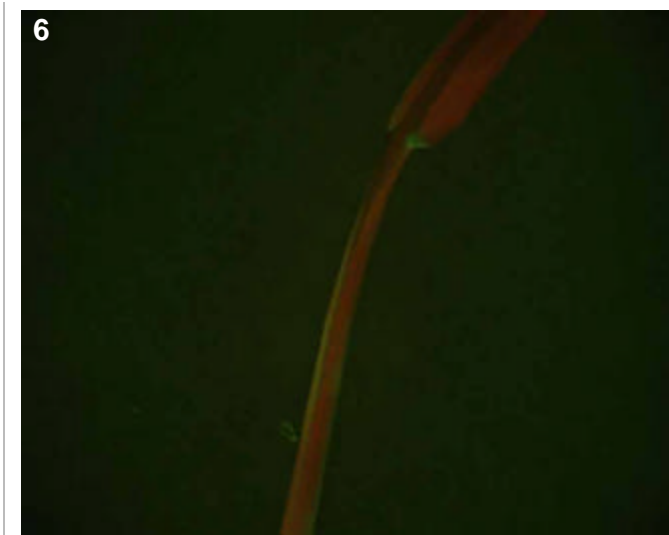
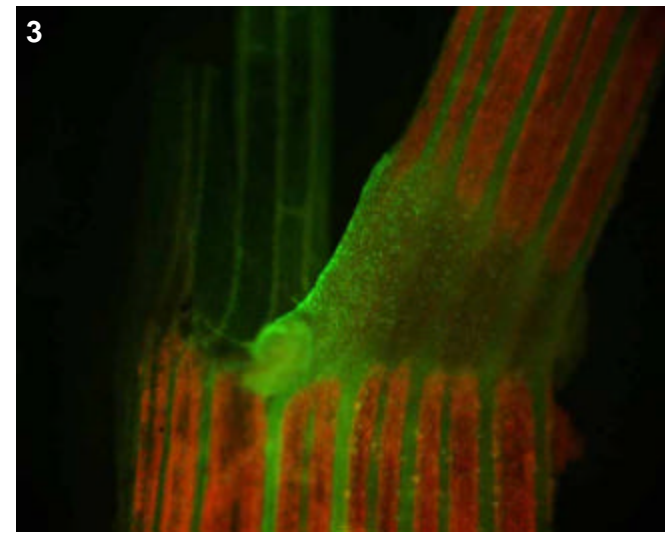
Interesting pattern on the collar. Looks like cells on the surface brightly lit up? Very strong vascular in sheath and leaf surrounding the collar. Also what looks like general expression in the flower.

T1 seed comments

3/5 seeds show bright expression in the scutellum.

T1 seedling comments

Same interesting T0 pattern on collar noted in the T1--described as perhaps the mesophyll of the sheath also GFP positive. Collar bright, as well as something in the seed. Lateral roots show vascular expression.



Genotype: APB C01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

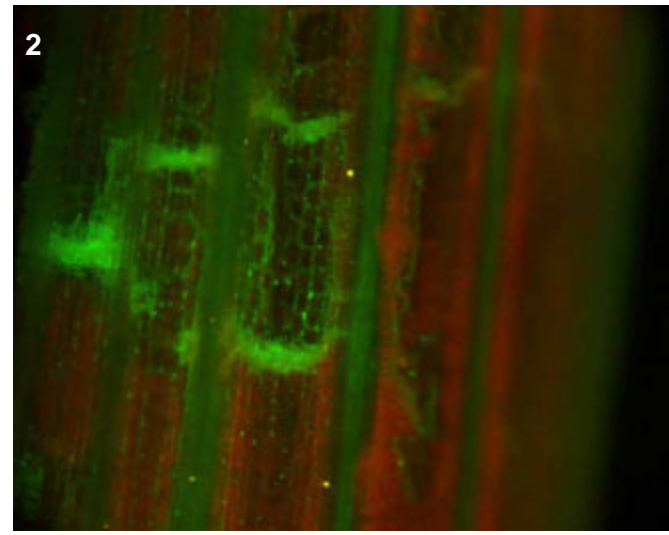
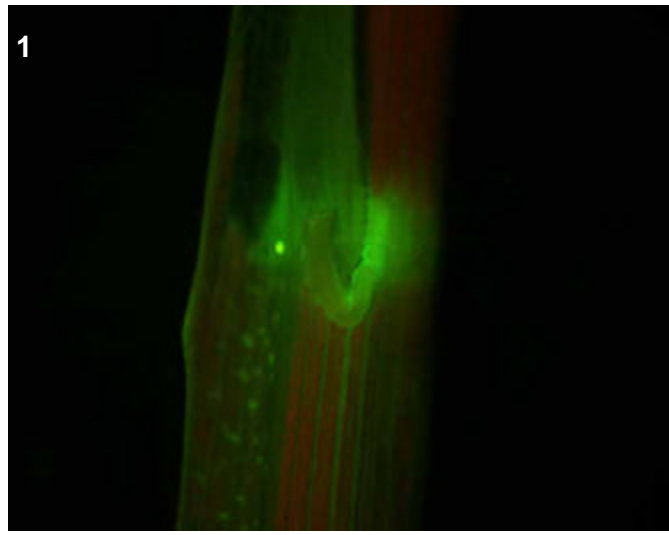
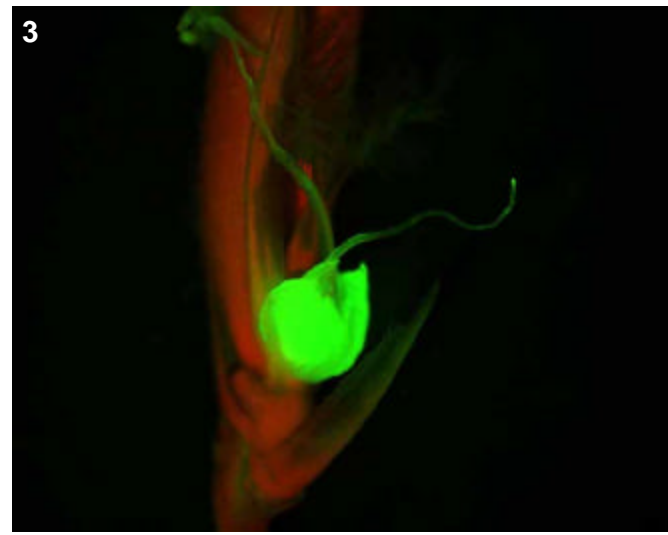
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments
 tetraploid

T1 seed comments

T1 seedling comments

Genotype: APB C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:
Collar expression too.

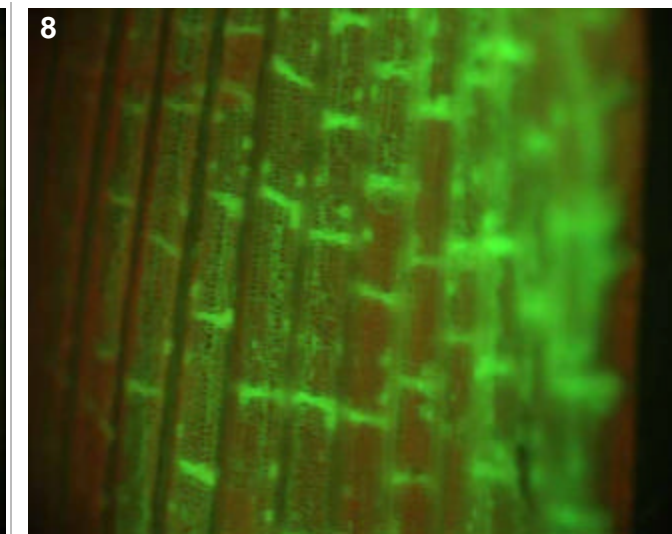
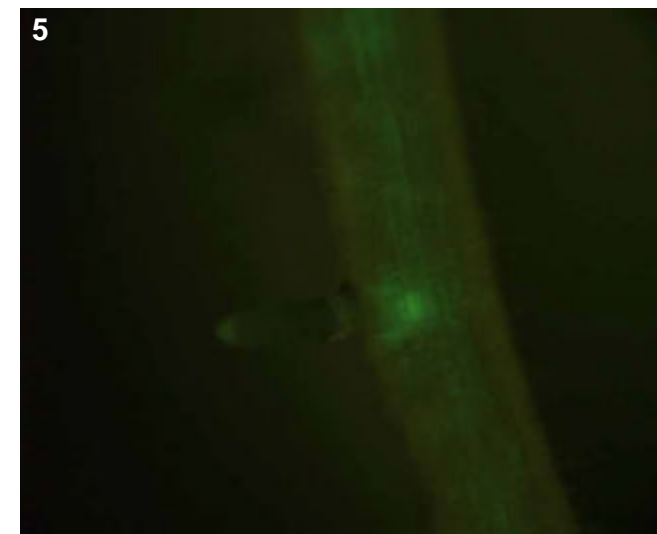
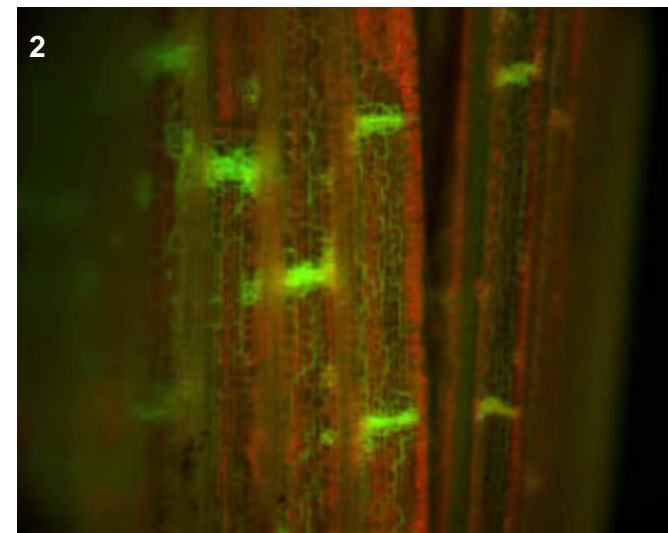
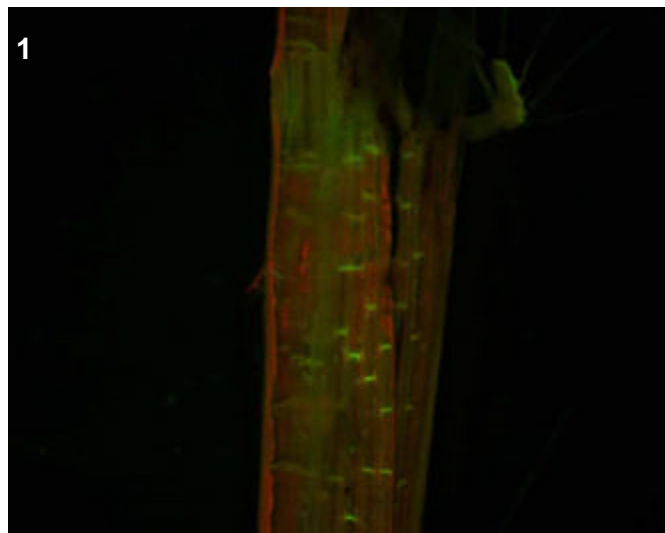
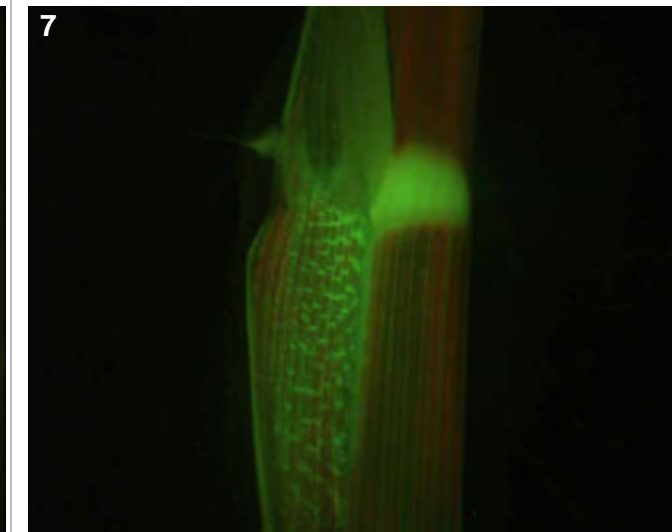
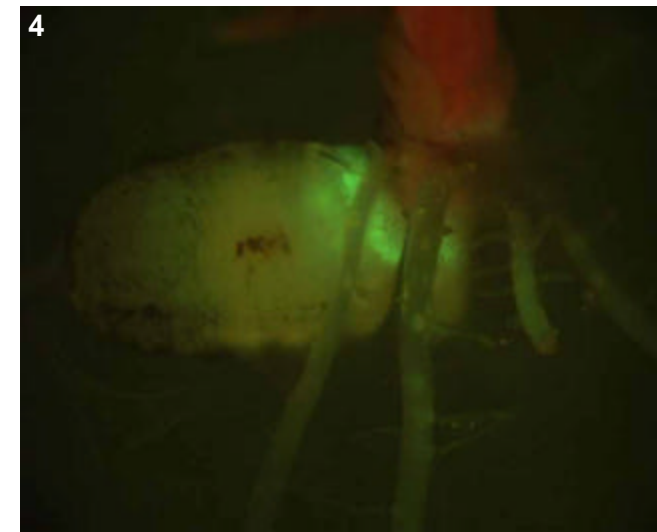
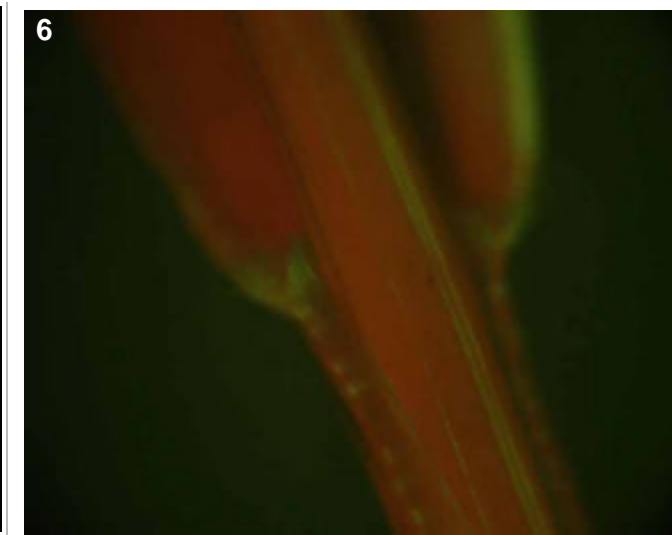
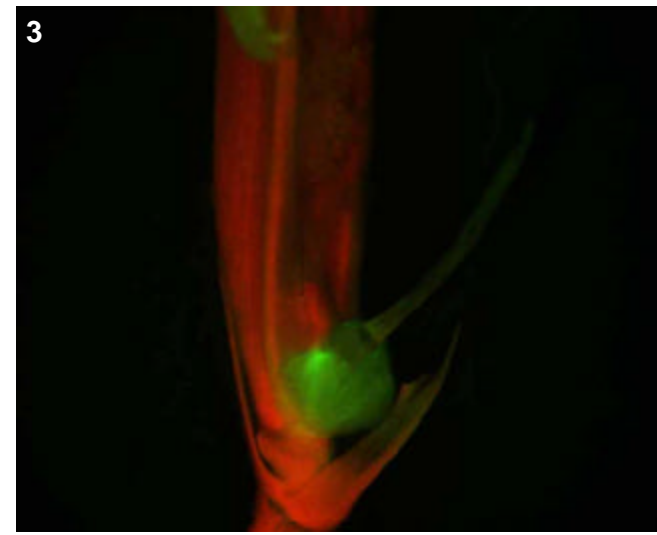
New pattern:

No GFP detected

T1 in greenhouse?
YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 197



T0 comments

No expression in the collar but moderate expression in the sheath vascular and lodicules.

T1 seed comments

T1 seedling comments

Strong vascular in T1 as well.

Genotype: APB E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

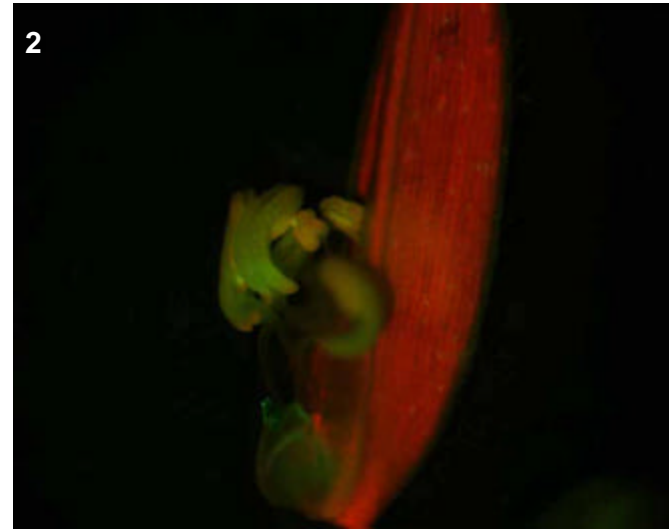
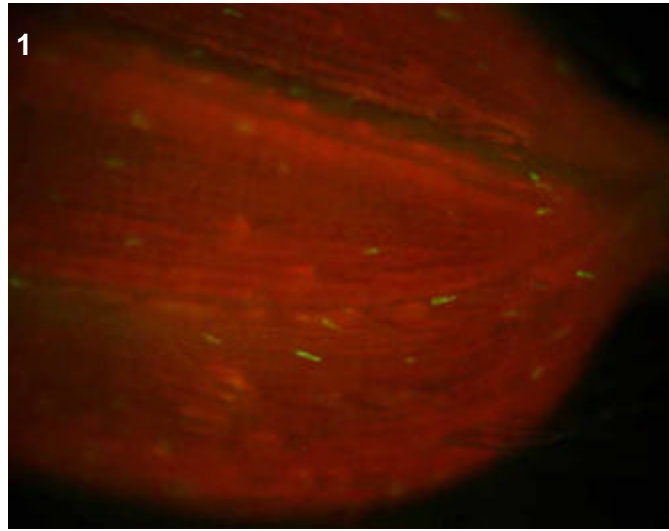
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 plants

Confocal?

Number T2 seed produced: 0



T0 comments

Faint expression in the lodicules and floral trichomes.

T1 seed comments

3/5 seeds show bright expression in the embryo.

T1 seedling comments

Genotype: APB E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

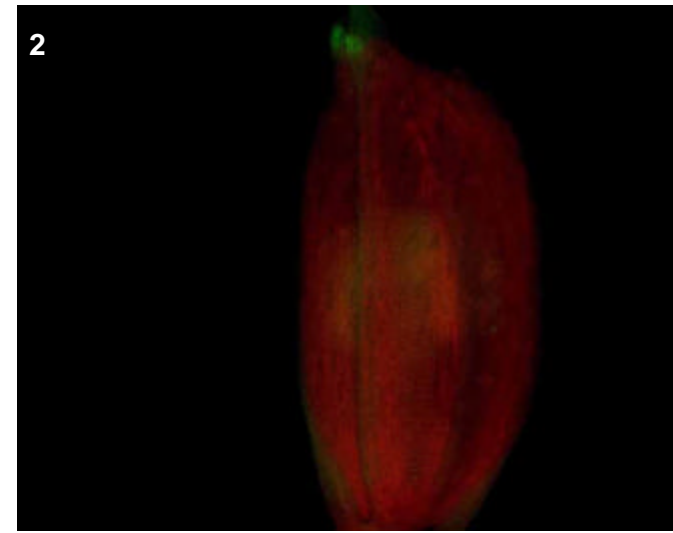
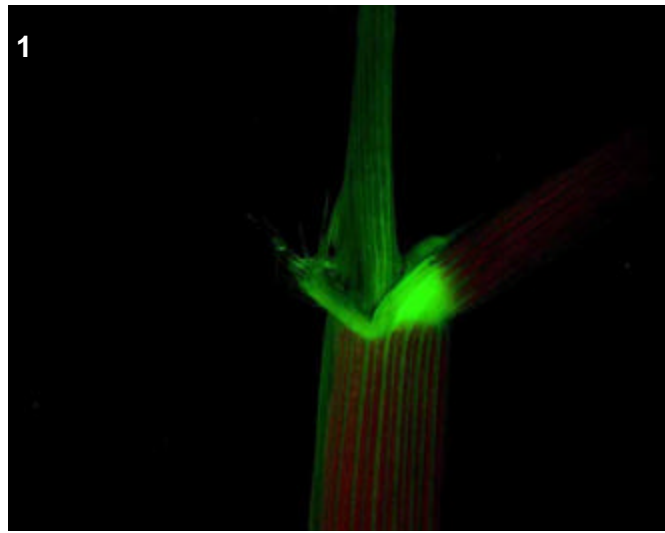
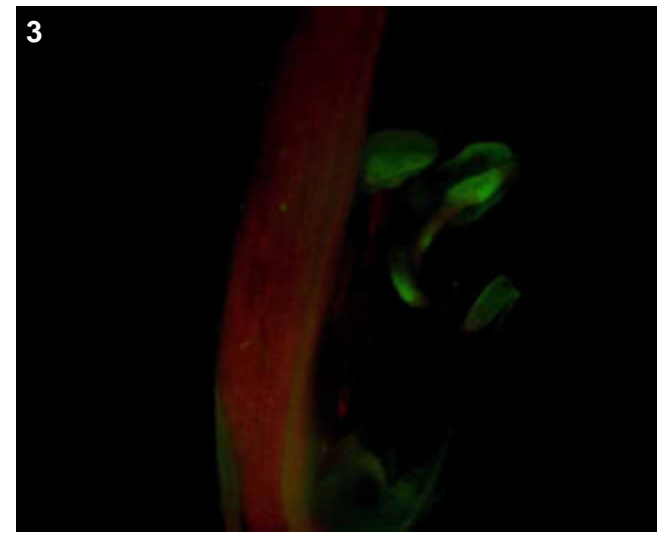
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A tetraploid genotype with very strong expression in collar and ligule, surrounding vascular, floral vascular and patchy expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: APB F06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

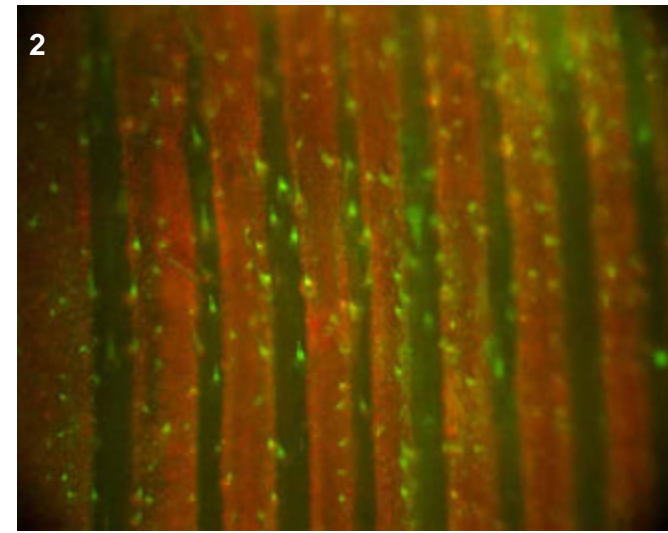
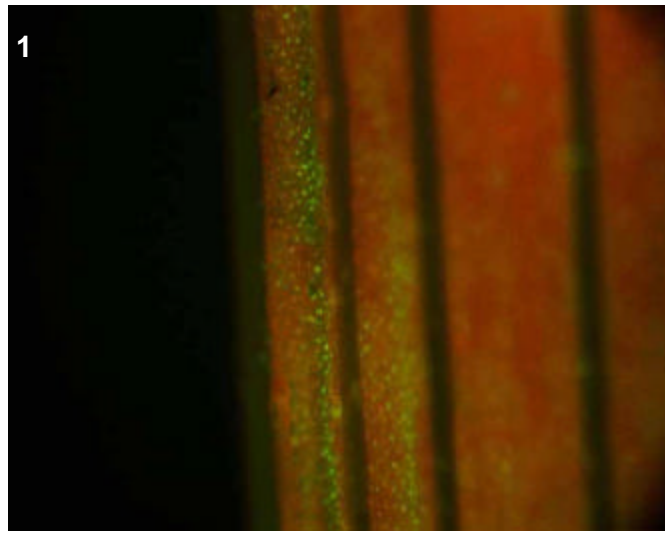
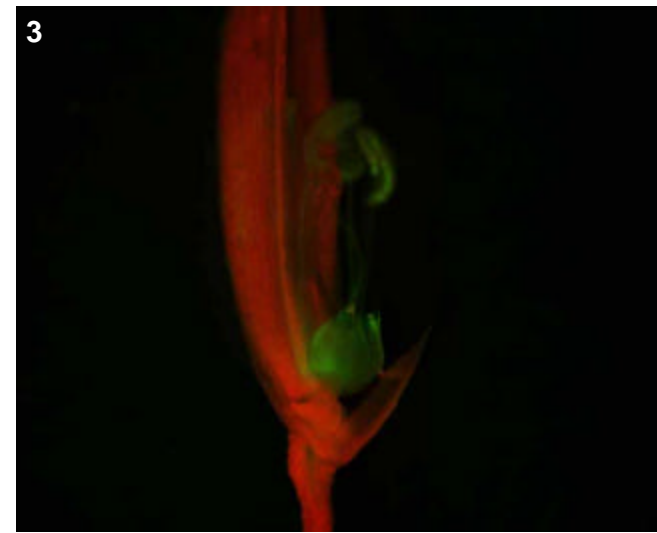
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Trichomes and stomata on the leaf and sheath surrounding the collar are bright. Also moderate expression in lodicules and patchy anthers.

T1 seed comments

T1 seedling comments

Genotype: APB G09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

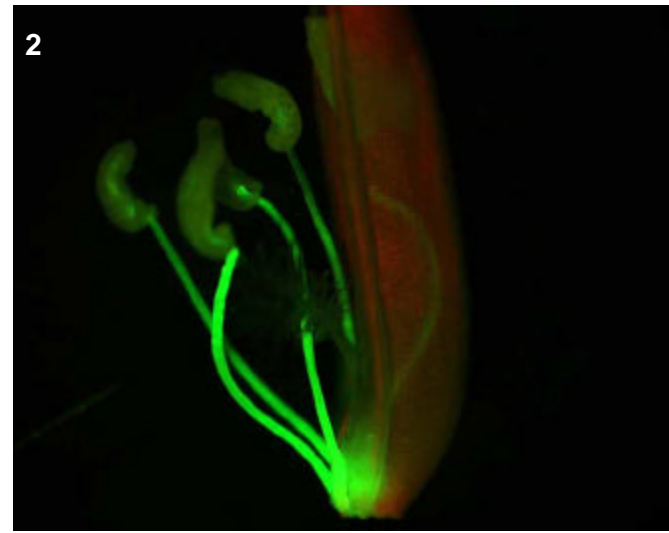
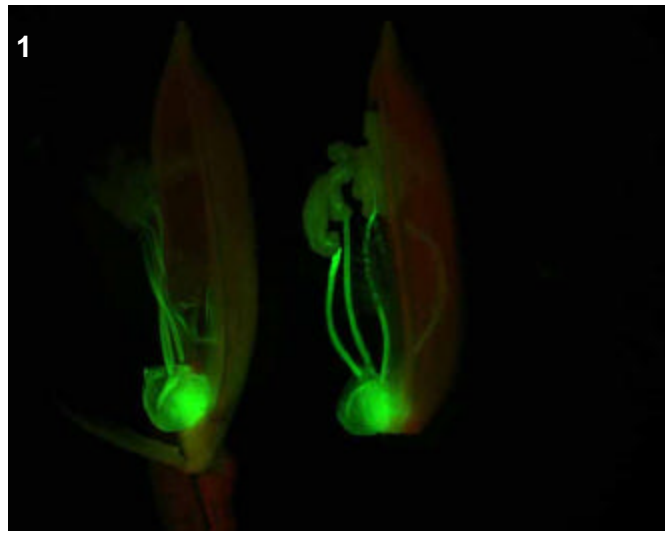
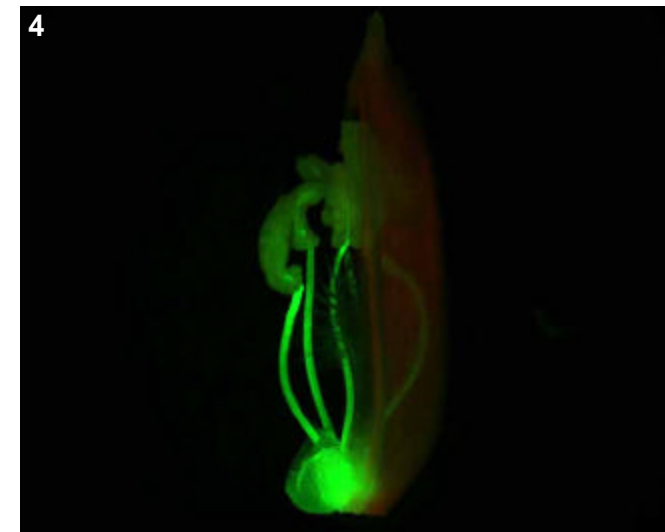
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Very bright expression in the filaments! Also some expression in lodicules, however, I think that alot of this is simply carrying over from the bright filaments.

T1 seed comments

T1 seedling comments

Genotype: APC B05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

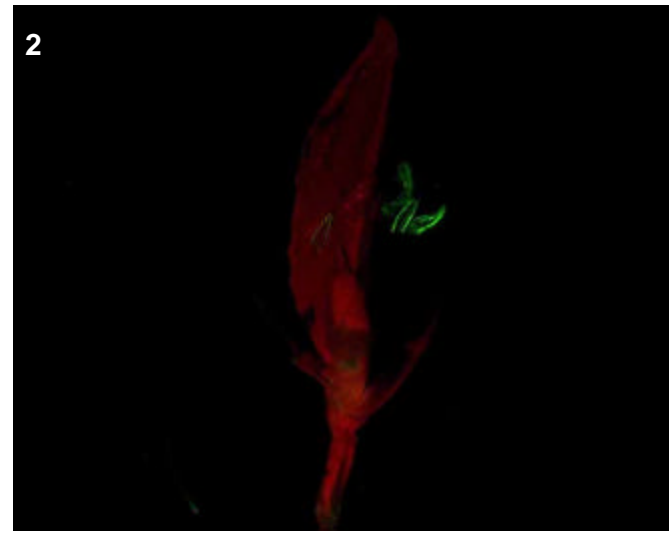
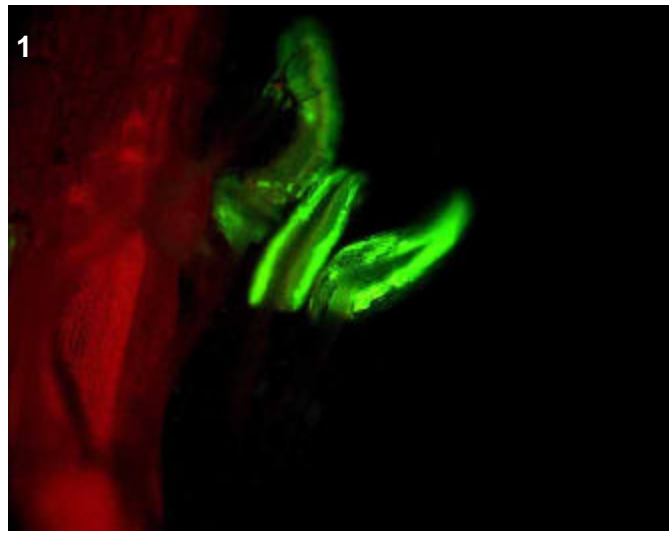
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Anther-specific expression.

T1 seed comments

T1 seedling comments

Genotype: APC B06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

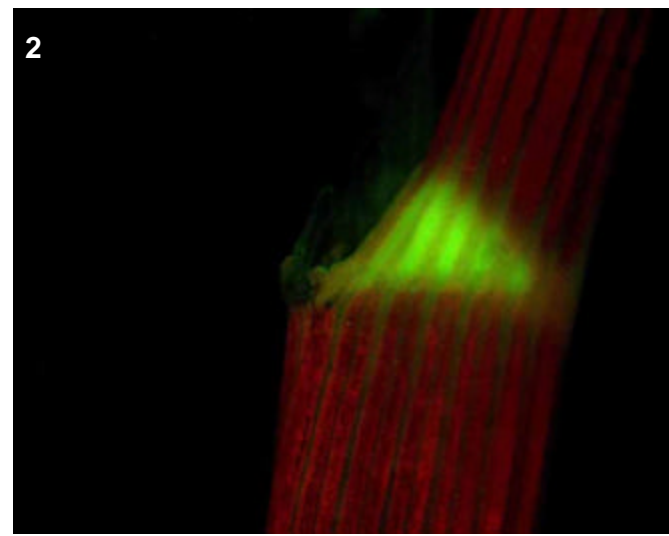
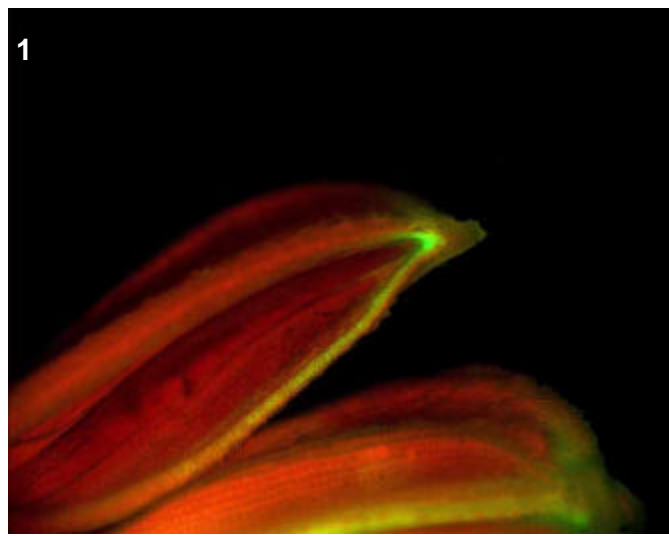
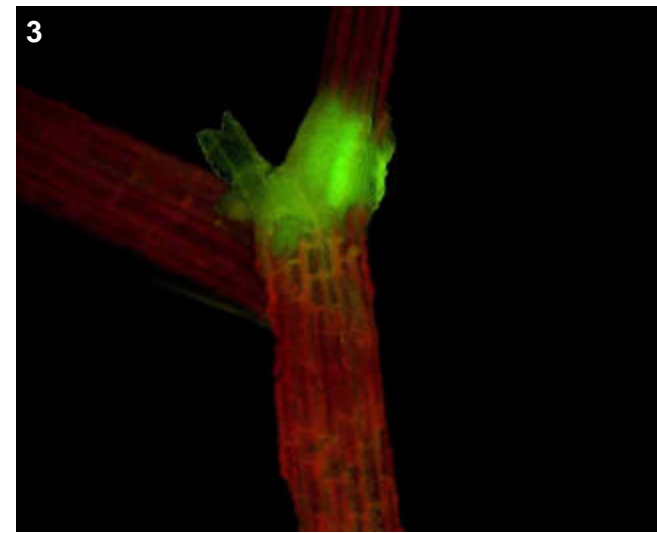
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright expression in the collar only, not the surrounding sheath or leaf vascular. Also some floral vascular expression.

T1 seed comments

T1 seedling comments

Genotype: APC C05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

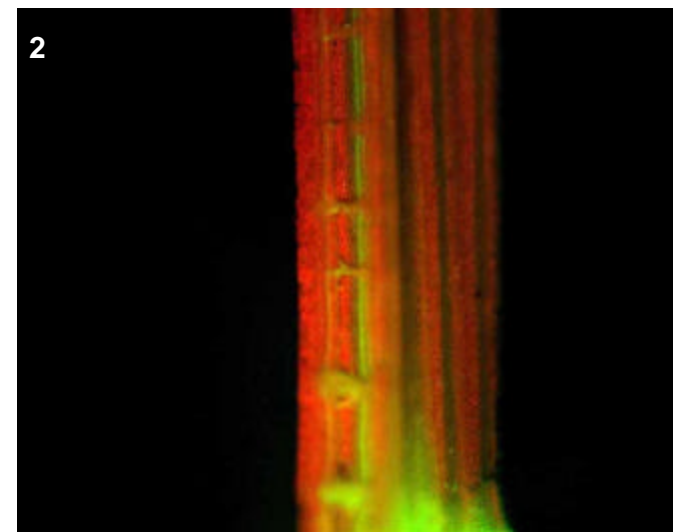
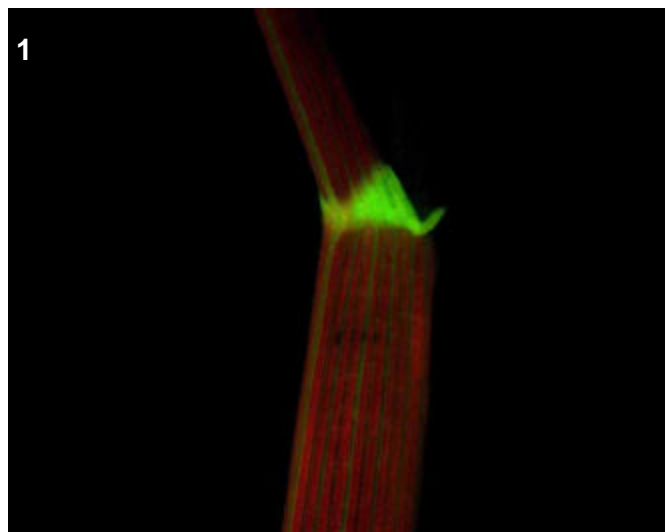
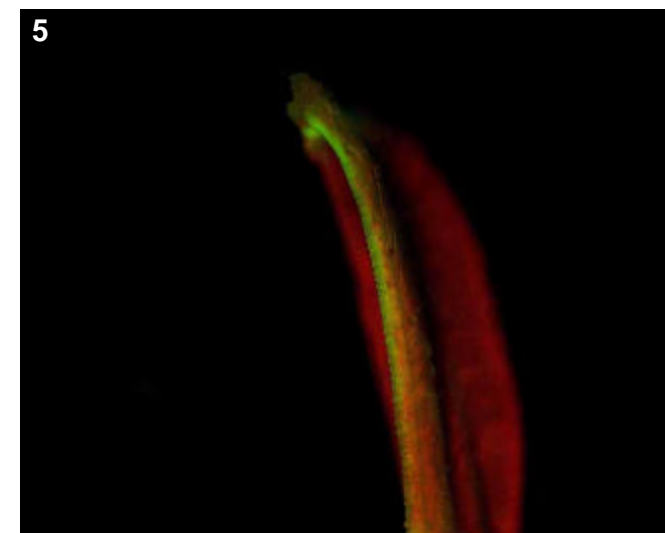
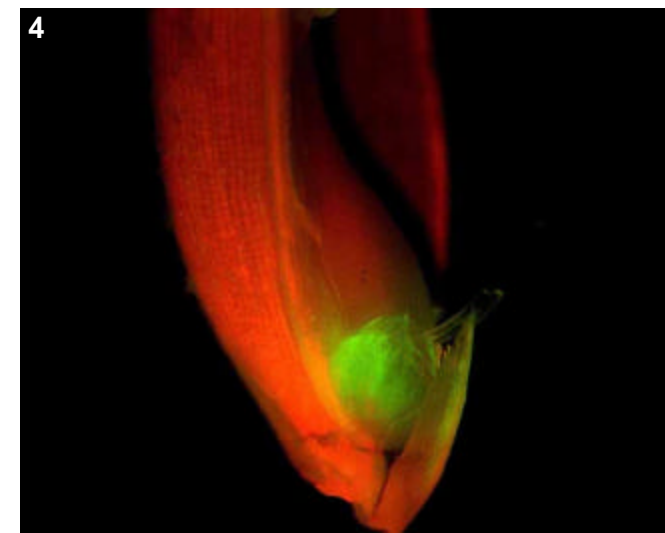
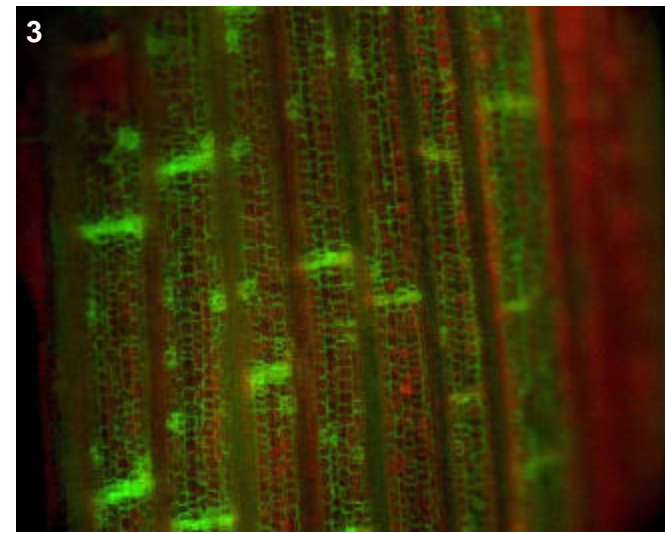
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in collar. Also bright expression in surrounding sheath and leaf vascular tissue. Faint expression in floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: APC D11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

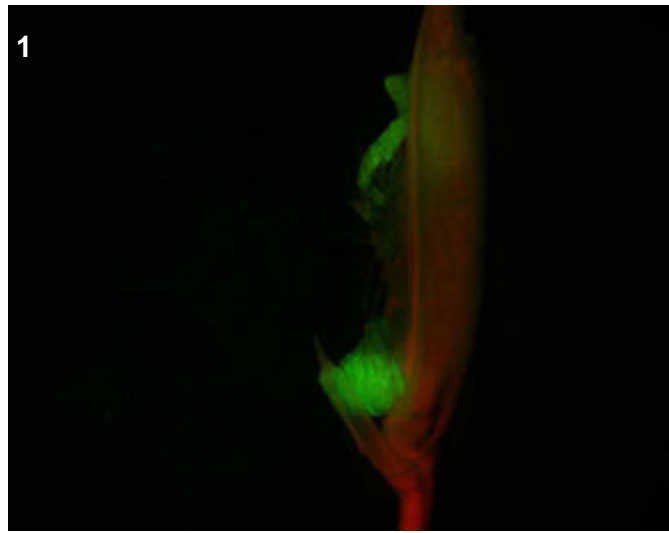
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid with bright lodicules.

T1 seed comments

T1 seedling comments

Genotype: APC F10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

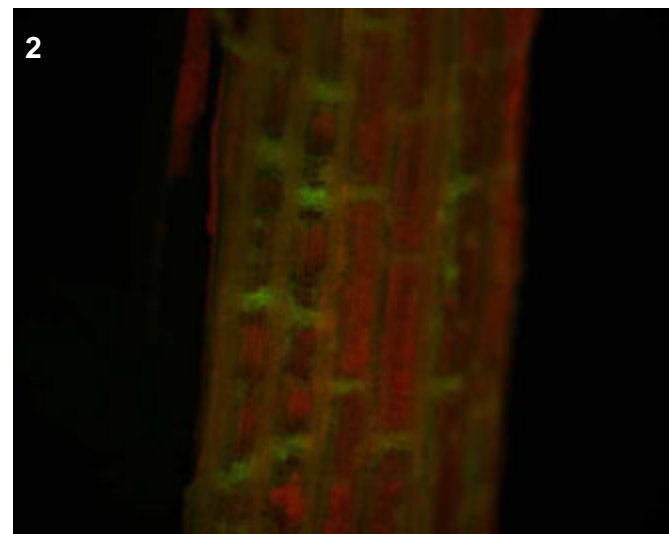
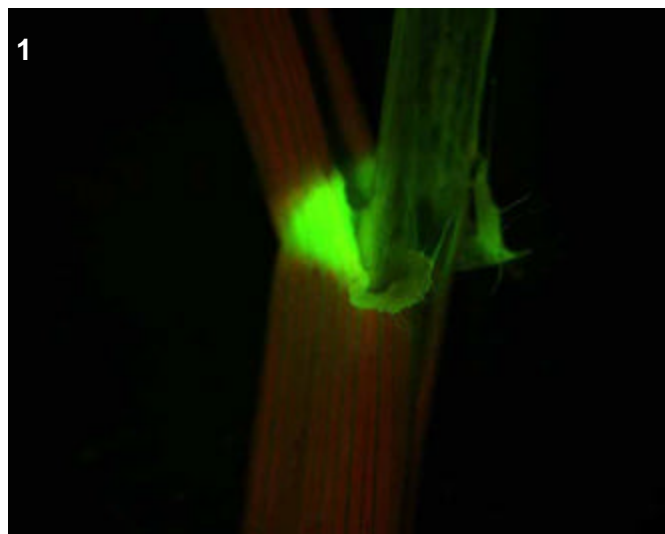
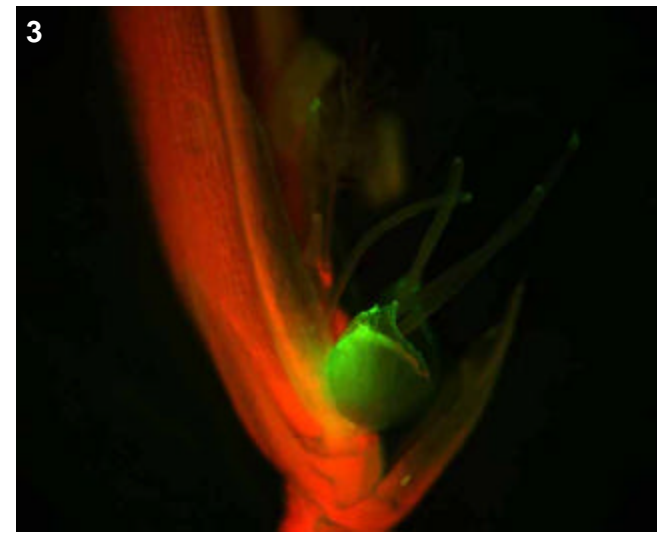
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 plant

Confocal?

Number T2 seed produced: 97



T0 comments

Very bright in the collar, weak in the sheath vascular, moderate in the lodicules.

T1 seed comments

T1 seedling comments

Poor germination of seed, so perhaps no GFP positives were available. Moved the one germinated seedling to greenhouse.

Genotype: APC H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

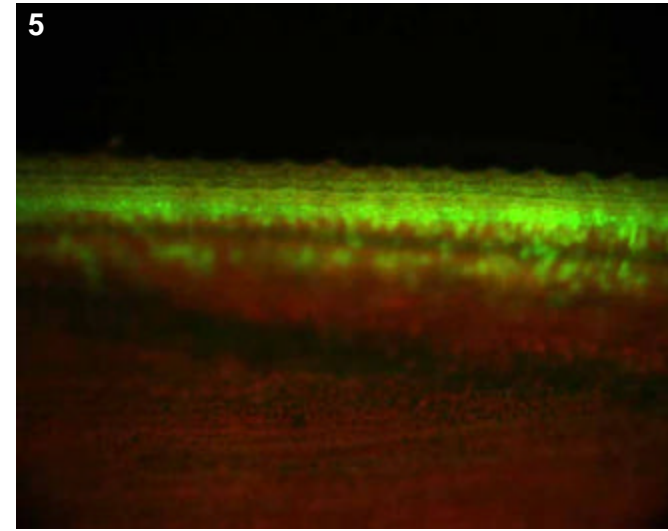
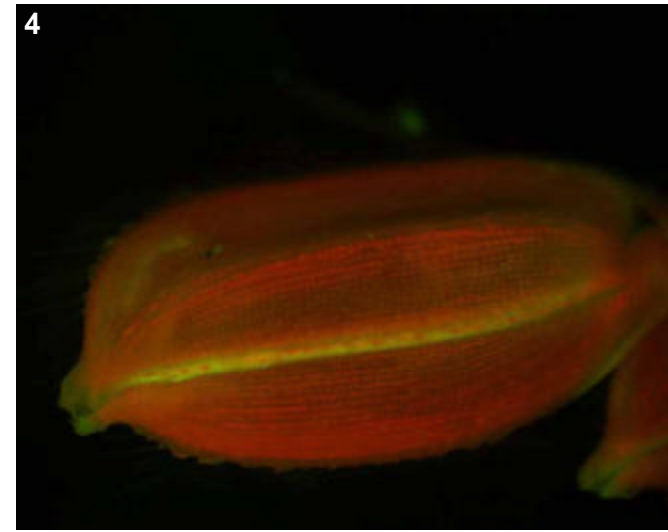
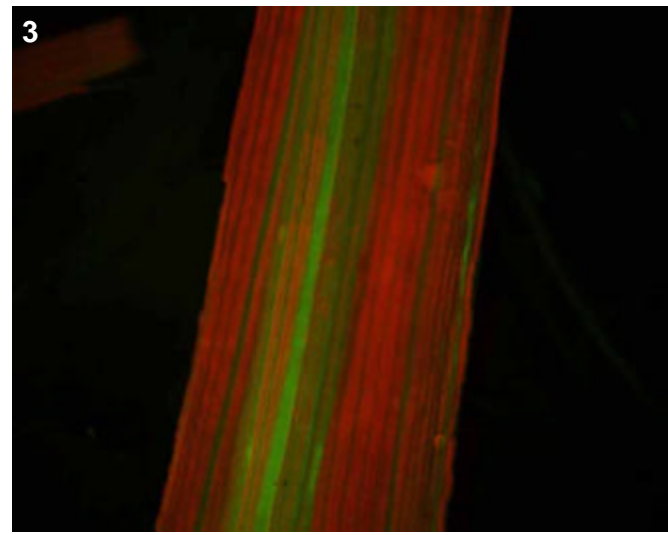
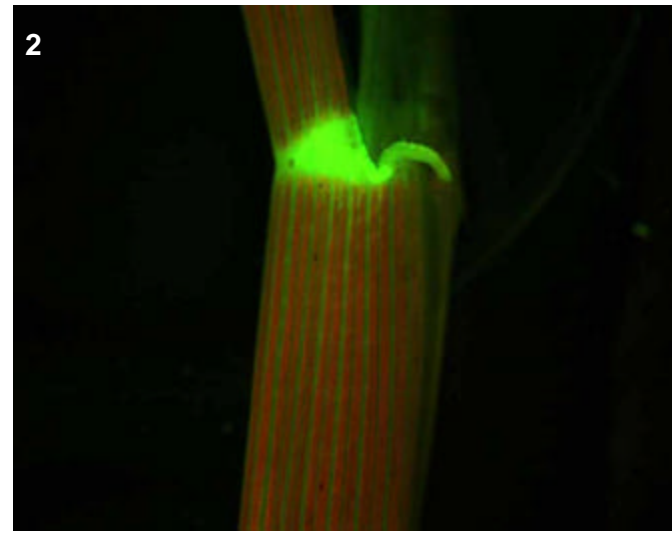
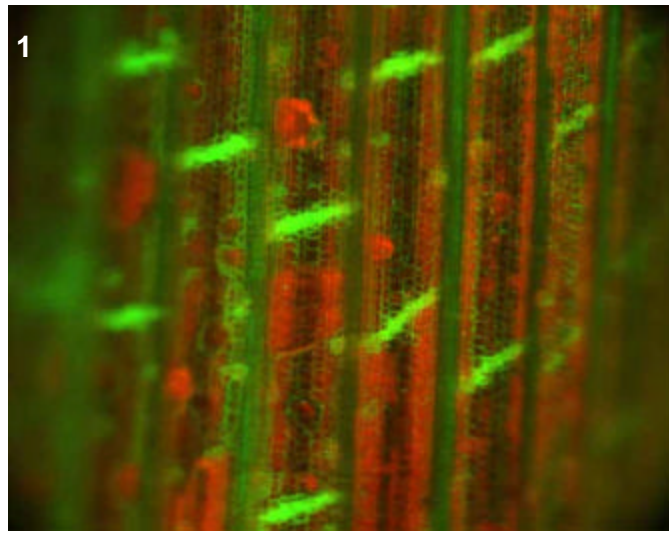
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Strong vascular line: collar, sheath vascular, leaf vascular, floral vascular.

T1 seed comments

T1 seedling comments

Genotype: APC H11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

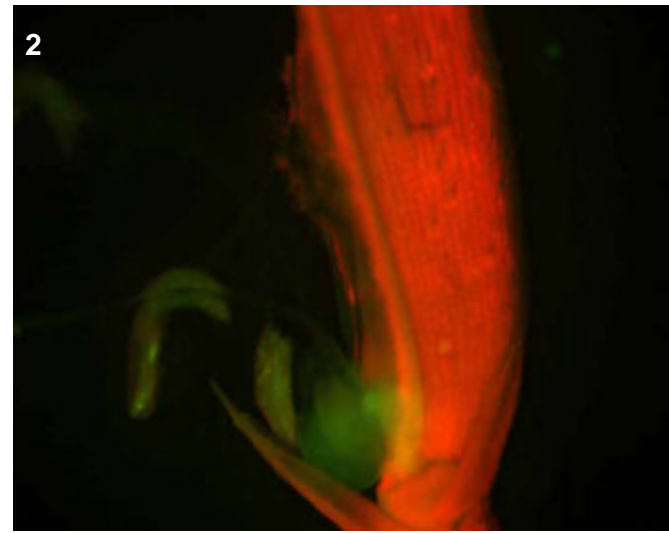
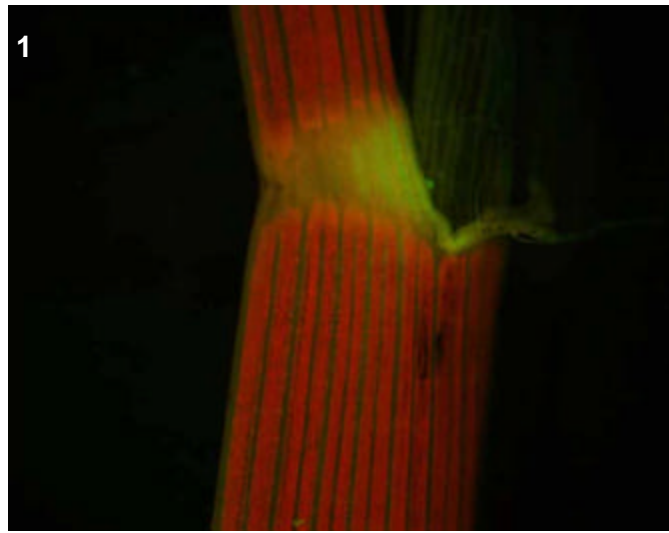
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Weak collar, not the surrounding vascular. Also weak lodicule and floral vascular expression.

T1 seed comments

T1 seedling comments

Genotype: APD A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-6
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

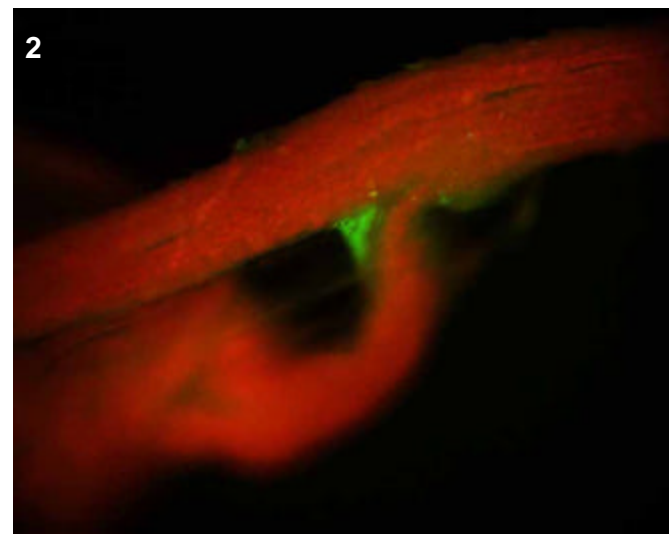
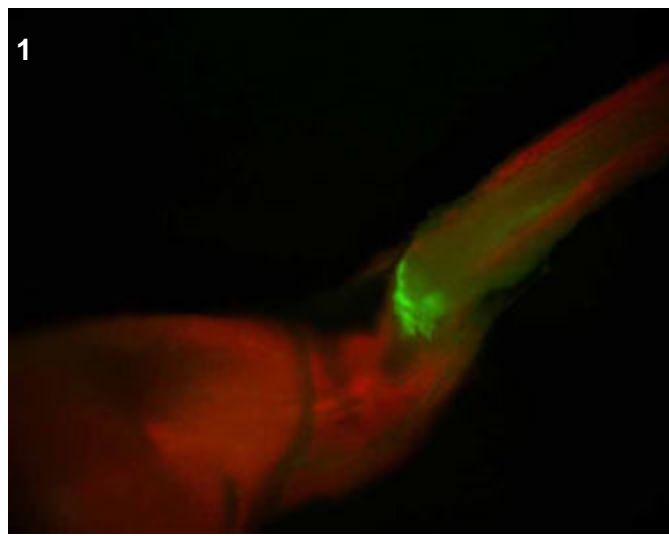
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

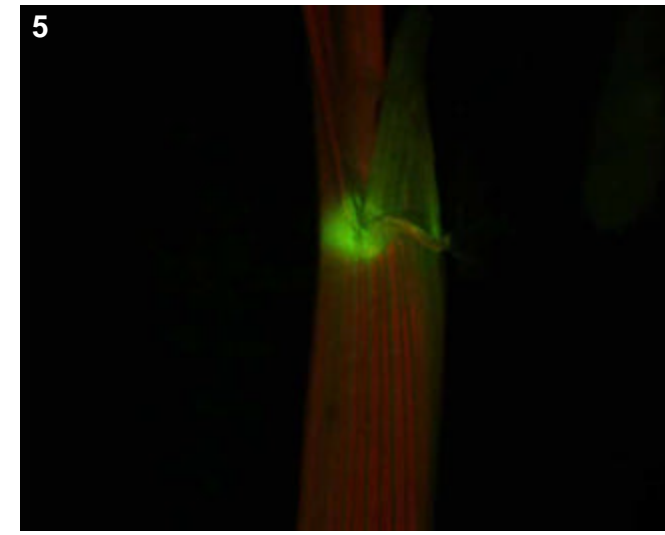
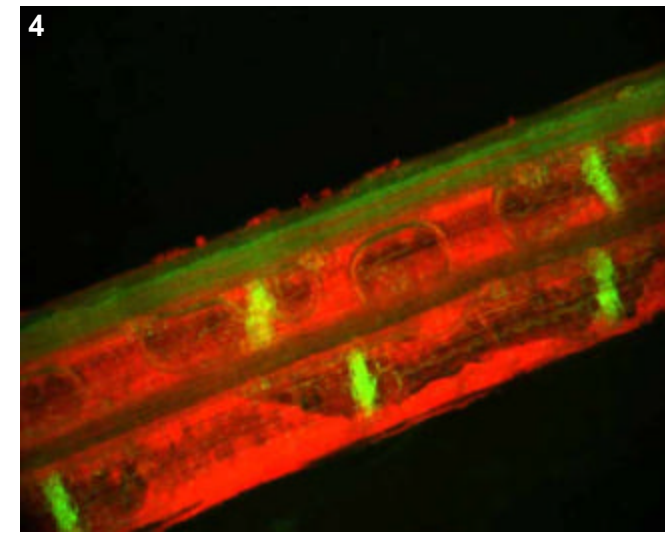
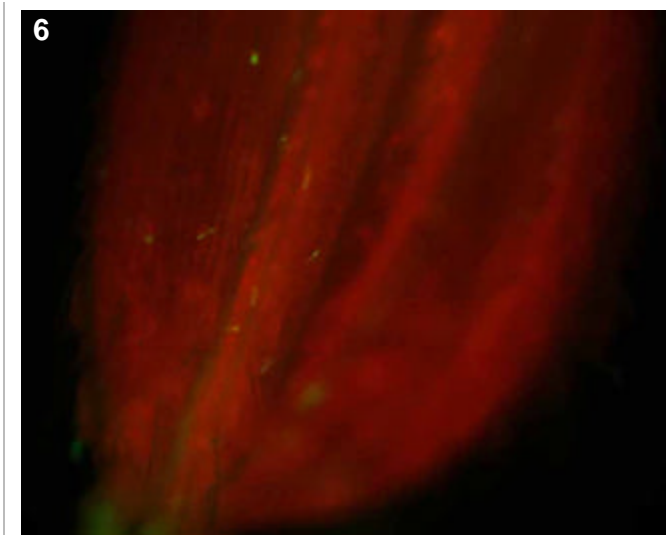
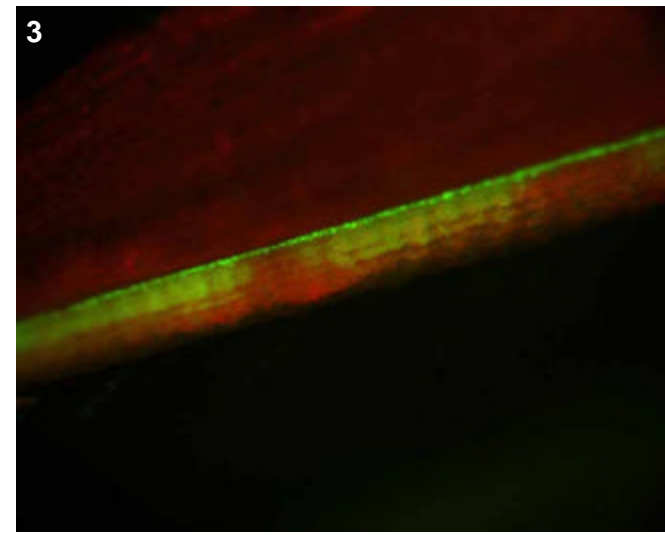


T0 comments

Bright expression in collar and sheath vascular. Bright point of expression at base of pedicel where pedicel attaches to rachis. Narrow band of vascular expression in flower, as well as scattered trichomes on the flower.

T1 seed comments

T1 seedling comments



Genotype: APD C01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

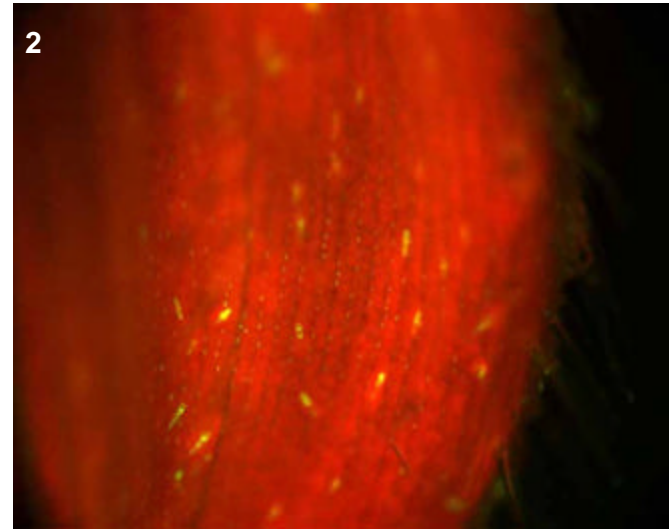
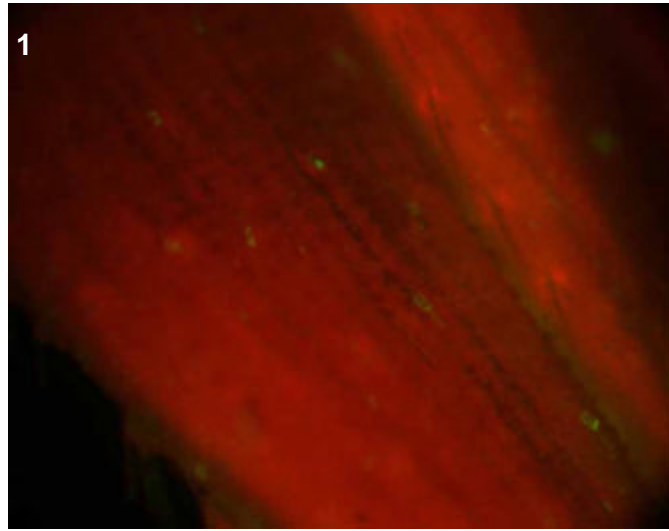
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression on cone-like cells on flower surface only.

T1 seed comments

T1 seedling comments

Genotype: APD C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

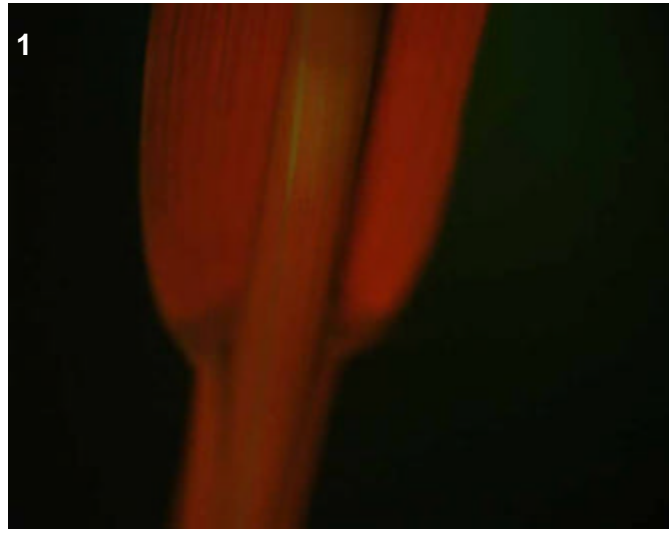
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 22



T0 comments

T1 seed comments

2/5 seeds showed what appeared to be very faint GFP in the scutellum region.

T1 seedling comments

Perhaps faint vascular in the shoot.

Genotype: APD D01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

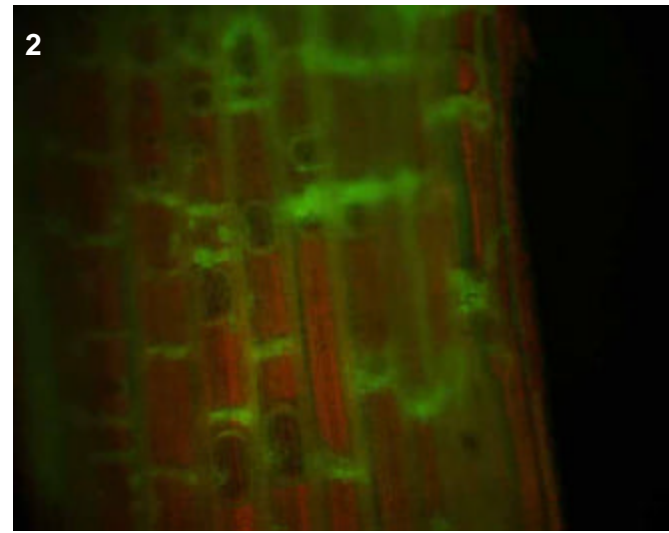
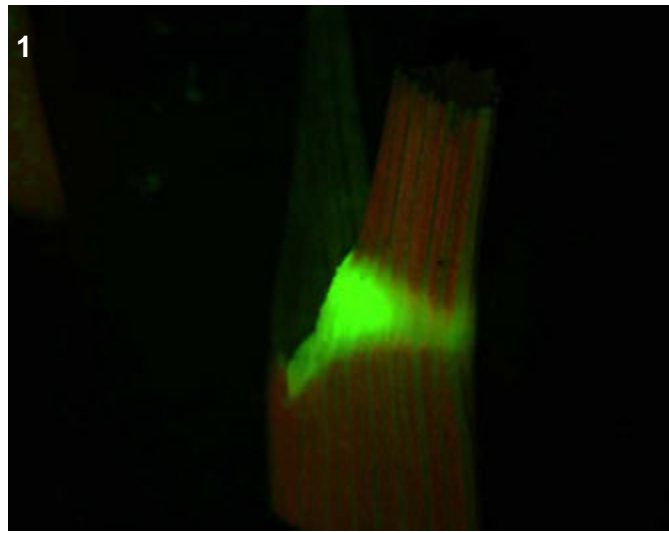
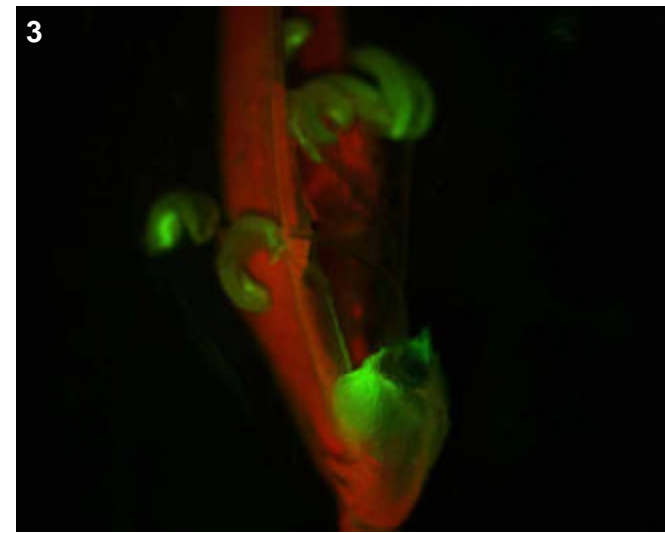
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright expression in collar, moderate in sheath vascular and in lodicules.

T1 seed comments

T1 seedling comments

Genotype: APD E07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

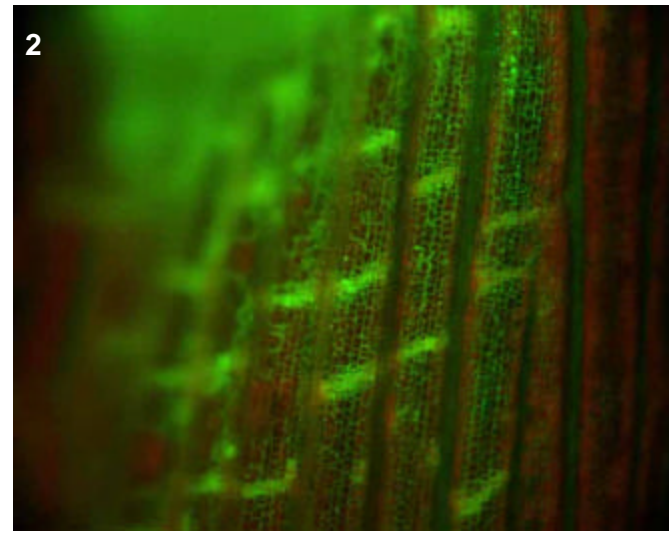
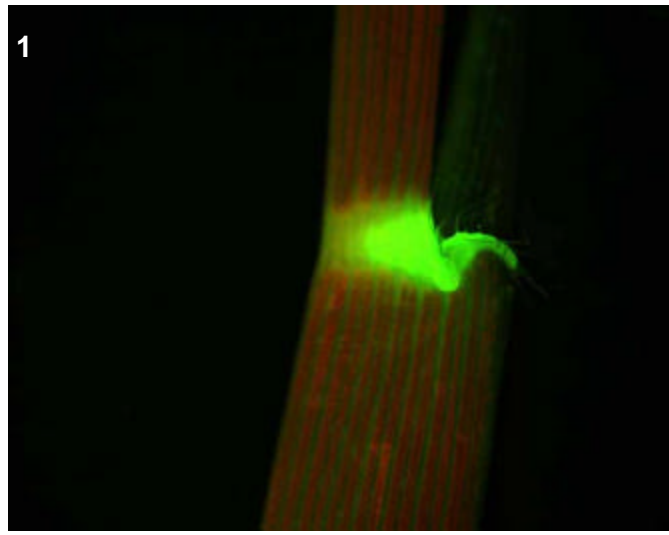
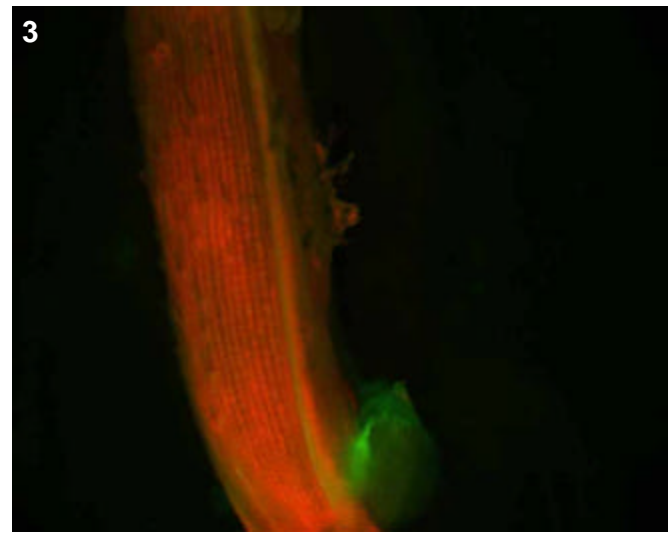
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong expression in the collar and sheath vascular, weak expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: APD F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

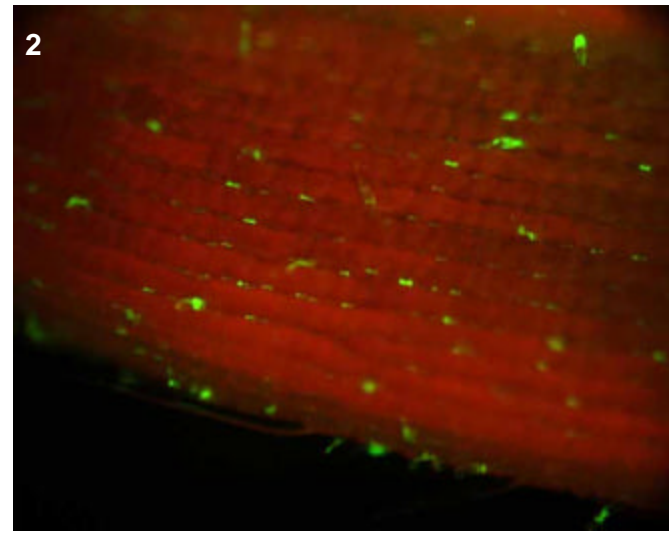
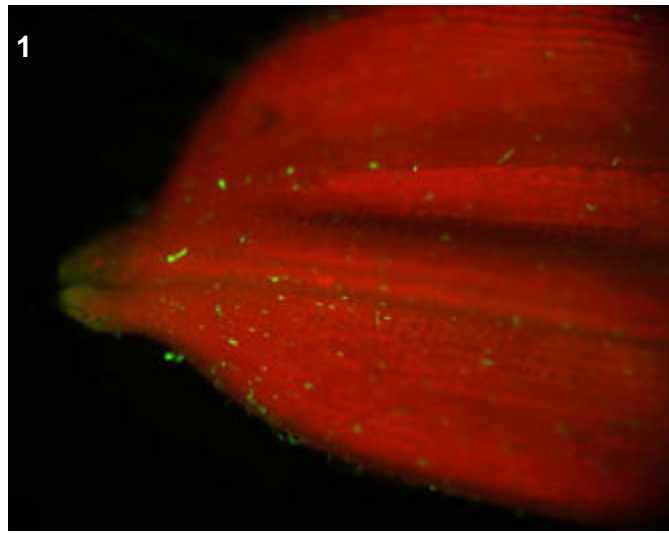
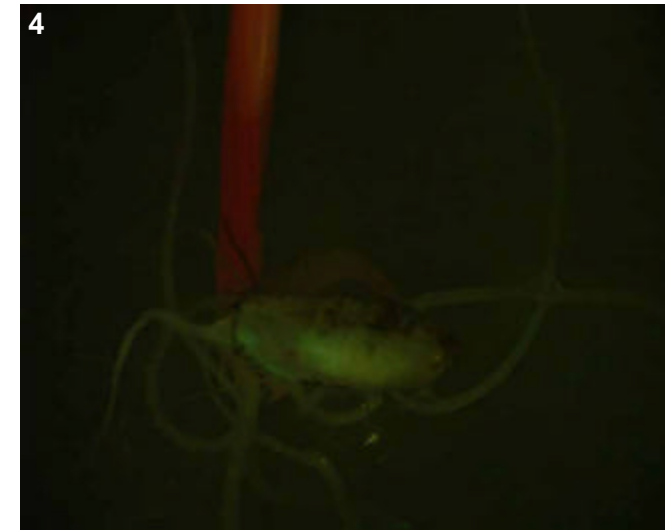
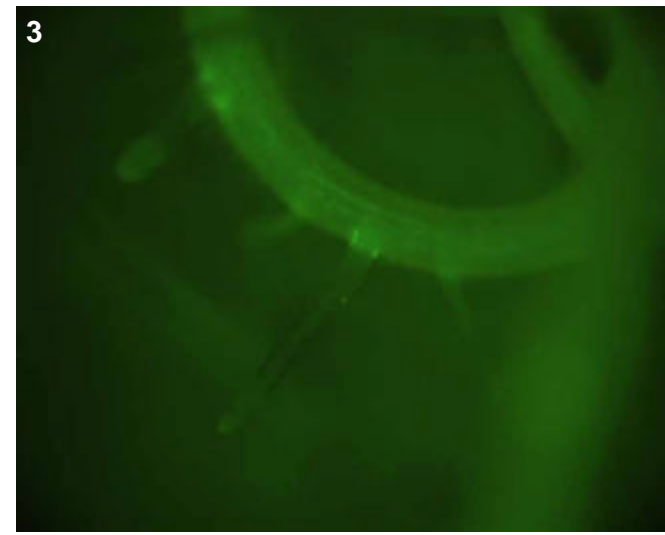
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants **Confocal?**

Number T2 seed produced: 89



T0 comments

Expression in the floral trichomes and stomata.

T1 seed comments

T1 seedling comments

Genotype: APD G04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

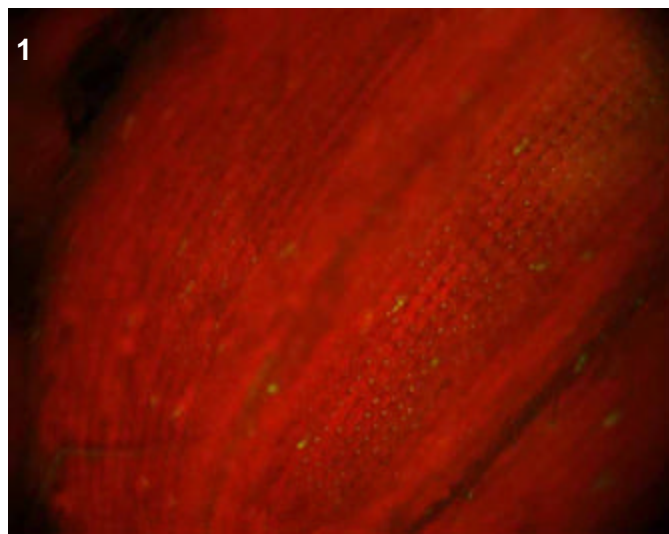
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Moderate expression in floral stomata/trichomes

T1 seed comments

T1 seedling comments

Genotype: APD G09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

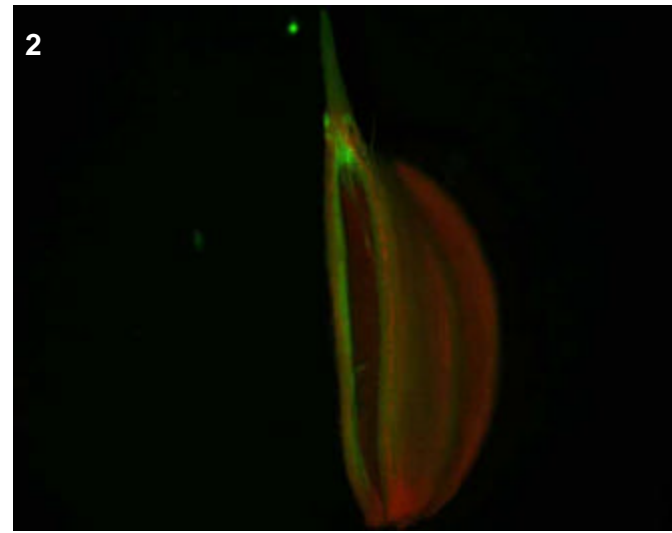
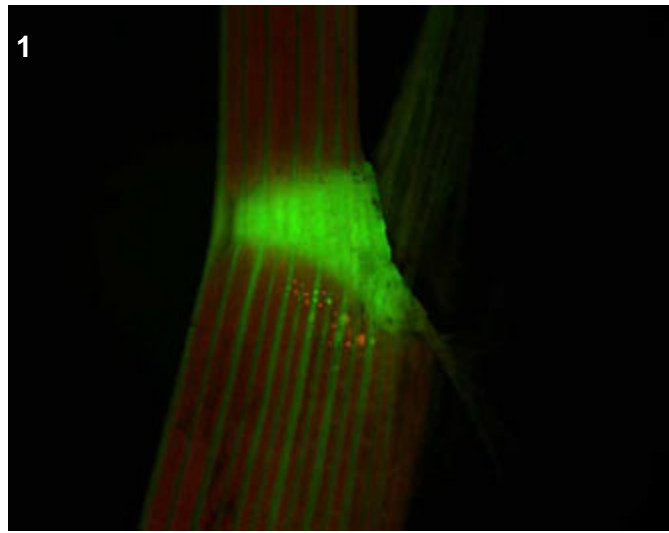
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid with strong vascular expression in sheath and flower.

T1 seed comments

T1 seedling comments

Genotype: APD G12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

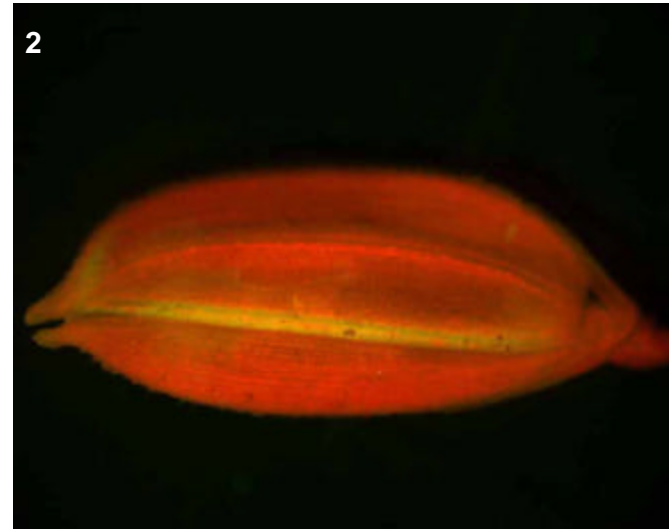
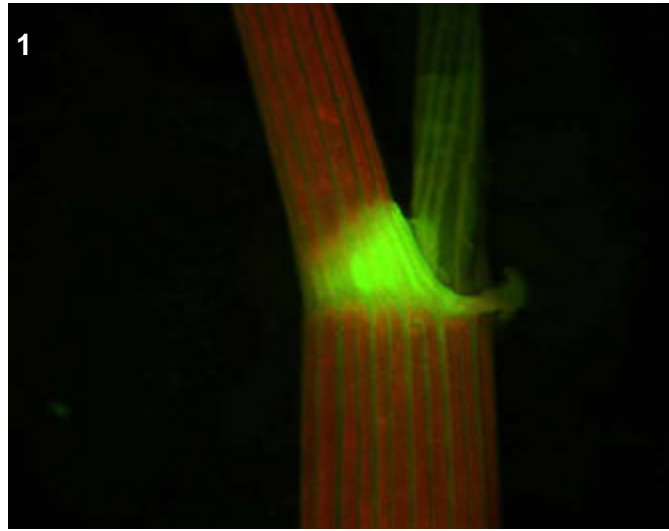
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Plant had thin tillers in the greenhouse. GFP expression in the collar and floral vascular.

T1 seed comments

T1 seedling comments

Genotype: APD H08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

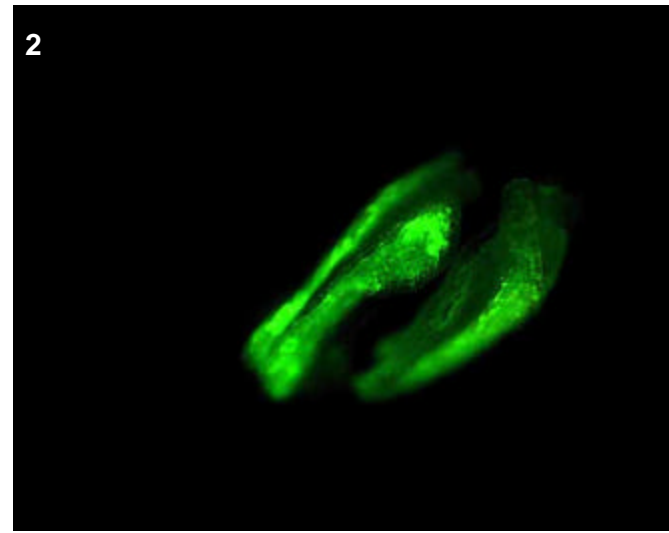
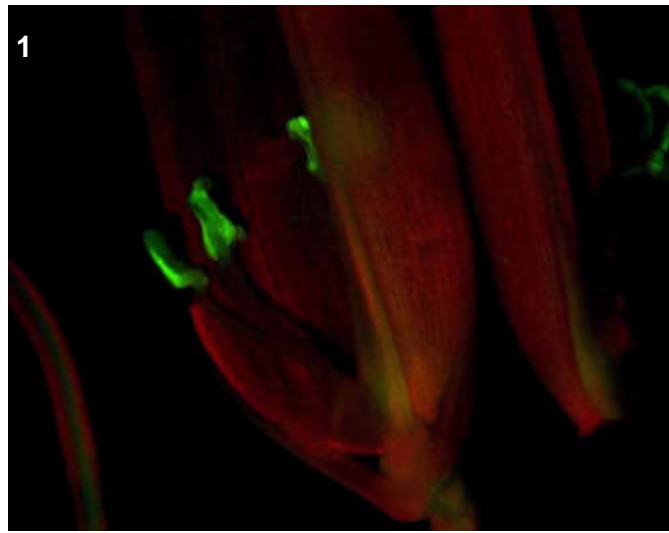
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Moderate expression in (i think) the anther wall

T1 seed comments

T1 seedling comments

Genotype: APE A09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

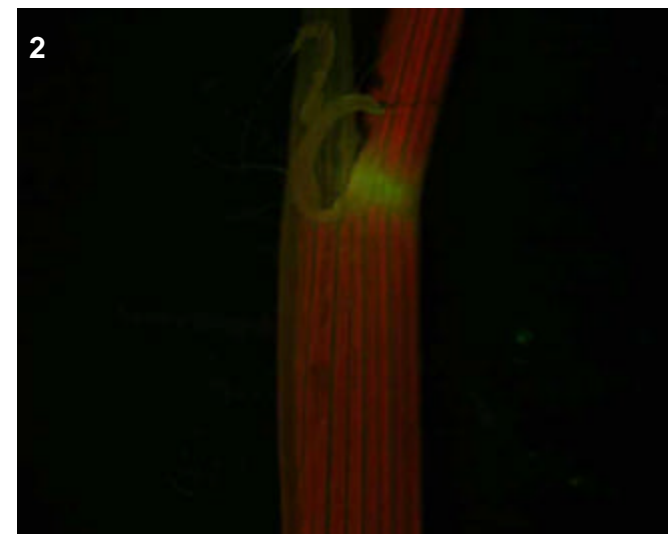
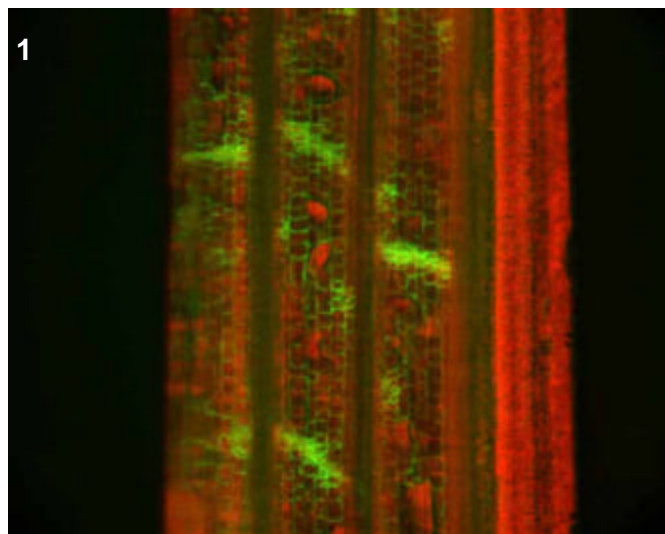
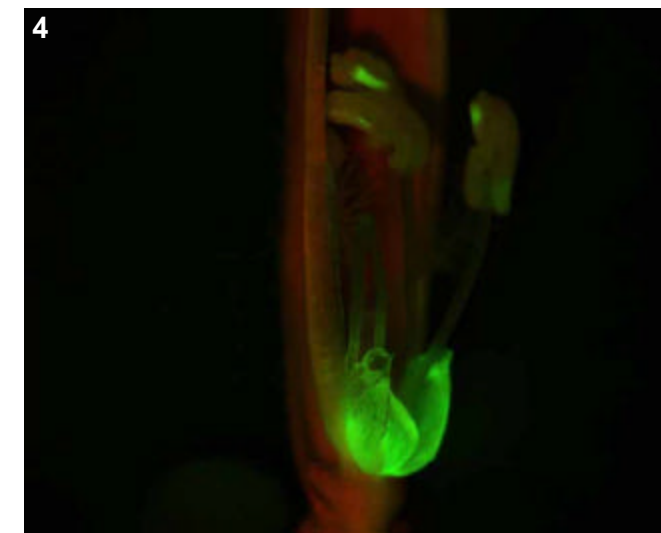
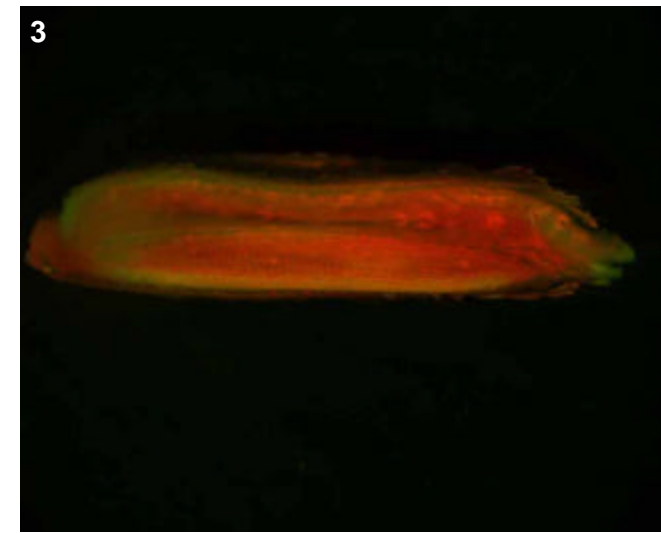
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in several areas indicating strong vascular expression: collar, sheath vascular, floral vascular and lodicules.

T1 seed comments

T1 seedling comments

Genotype: APE E01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

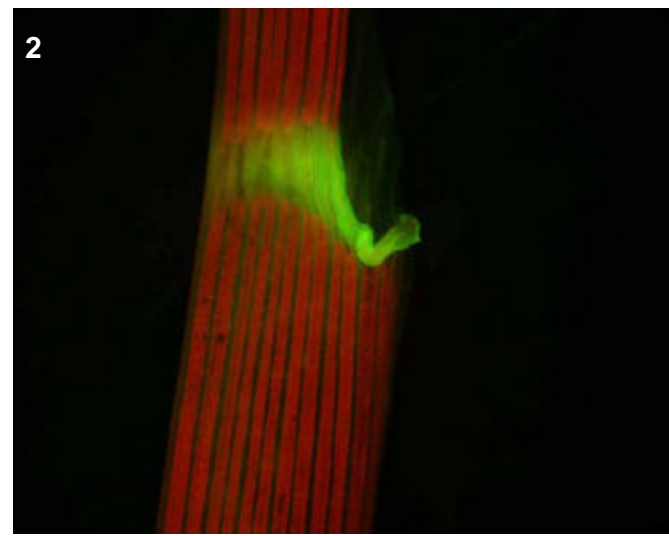
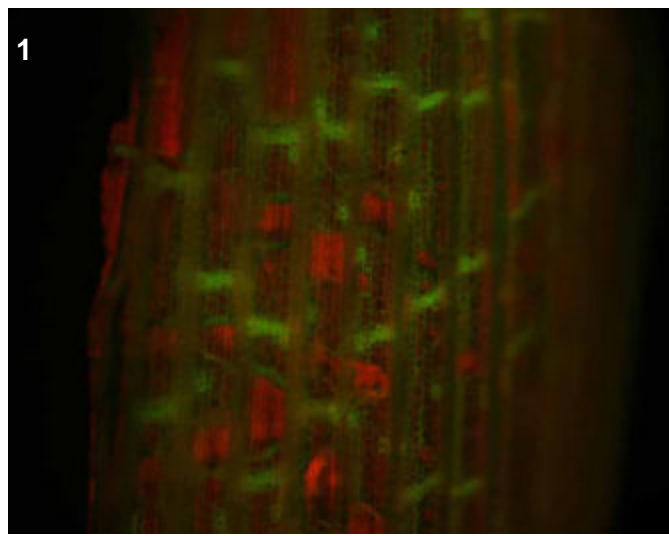
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

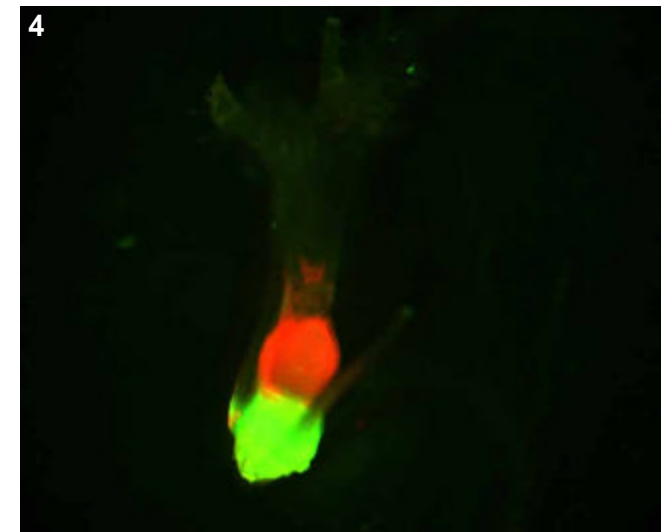
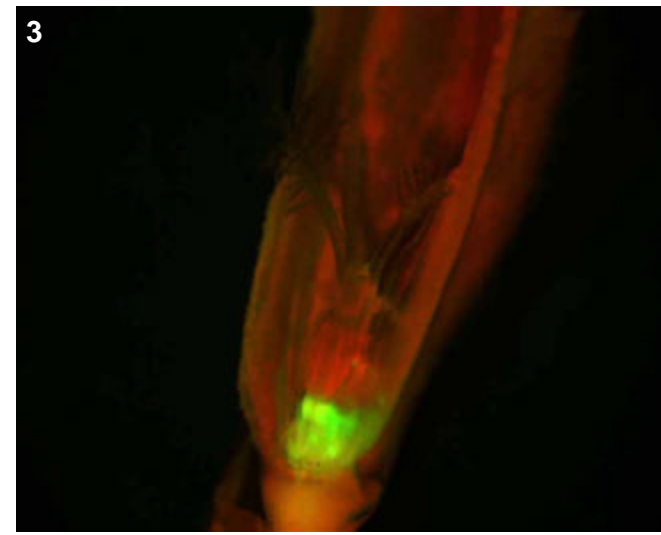


T0 comments

Bright expression in collar, weak in sheath vascular. Bright expression in carpel base, weak expression in lodicules.

T1 seed comments

T1 seedling comments



Genotype: APE E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

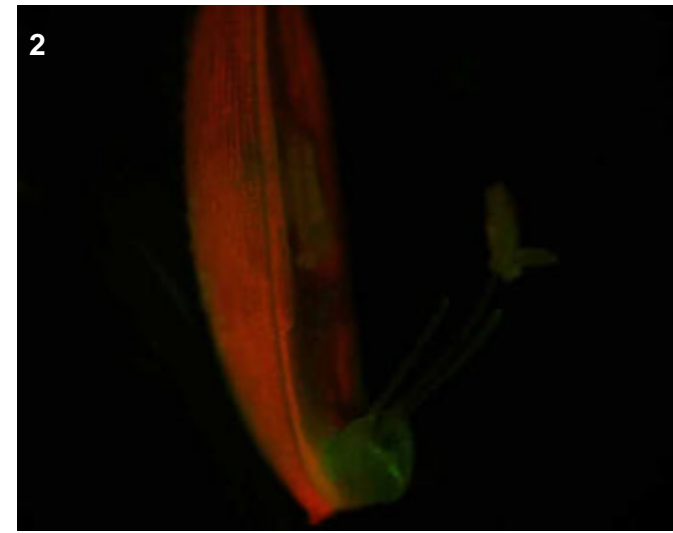
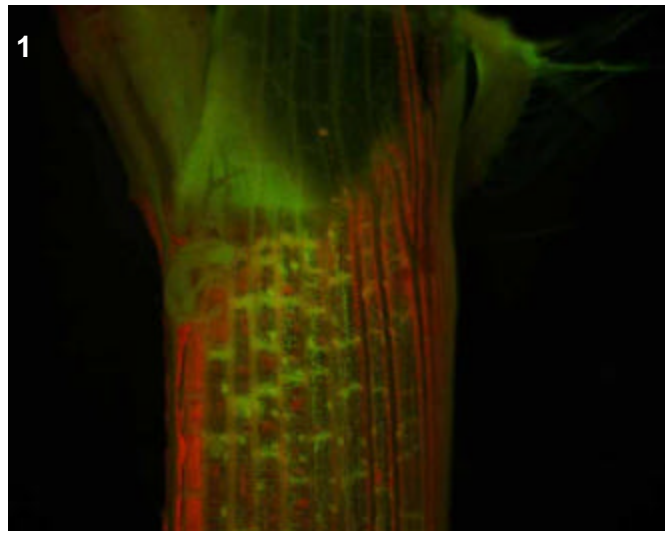
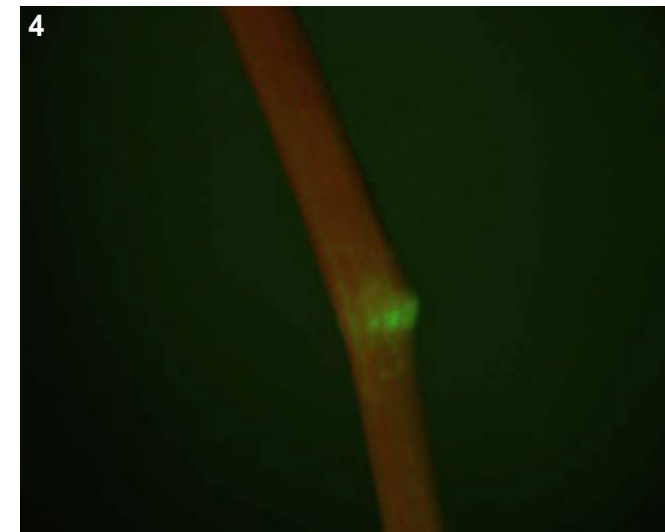
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 85



T0 comments

Moderate collar and sheath vascular expression, faint expression in lodicules.

T1 seed comments

T1 seedling comments

Genotype: APE G02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

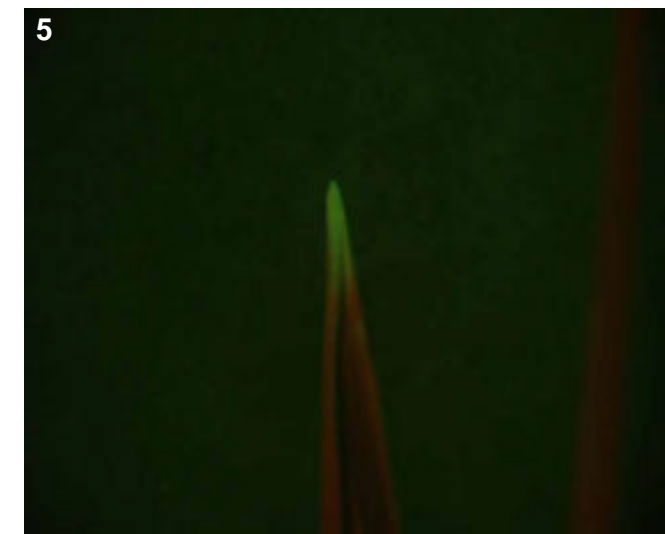
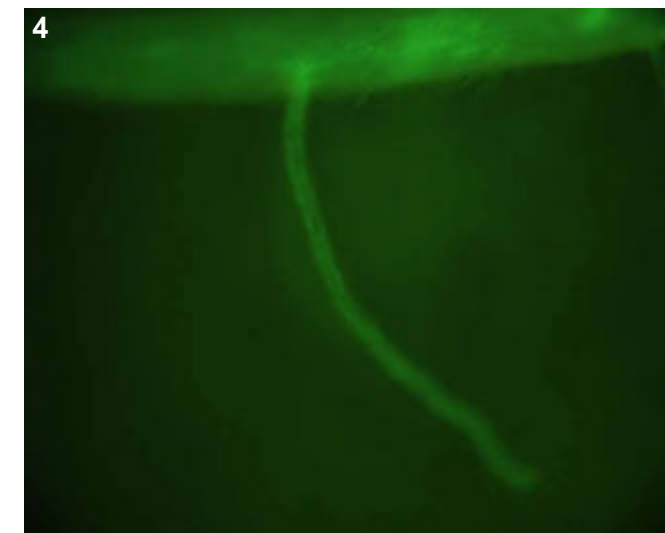
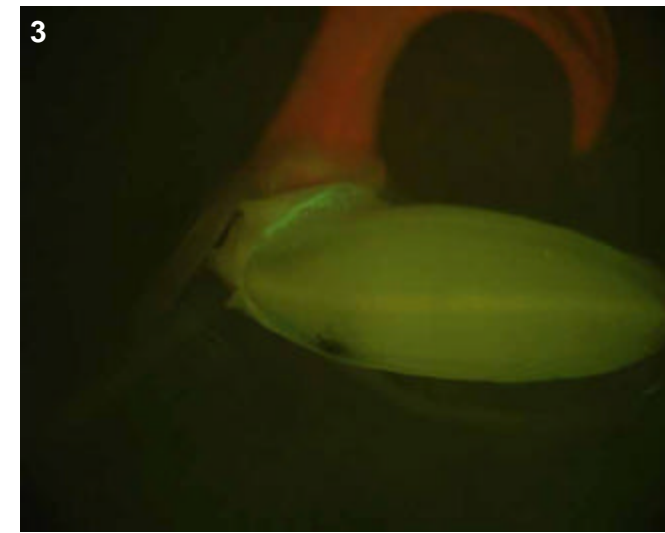
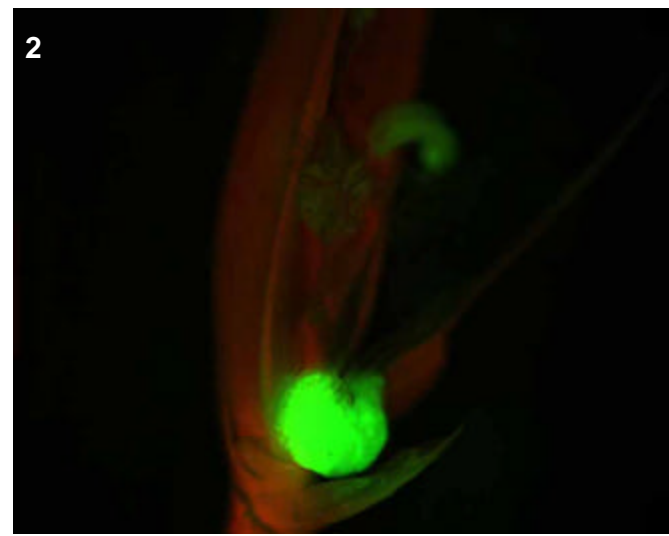
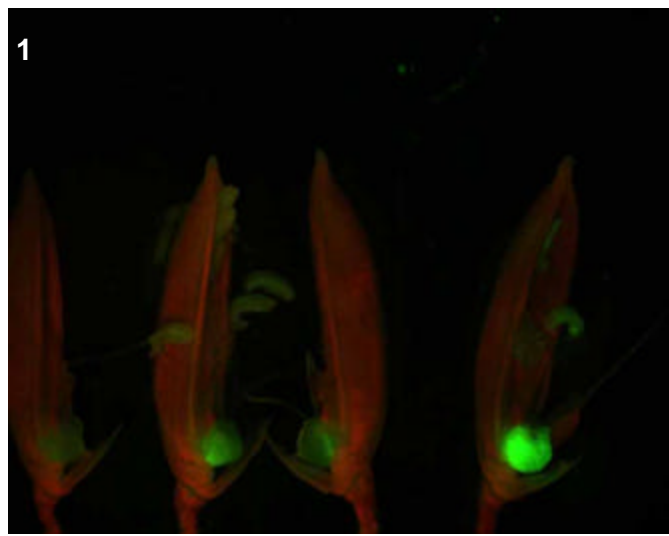
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 63



T0 comments

Interesting lodicule-specific line, because the intensity of expression increases in the more mature flowers. In left picture, flowers are arranged left to right in order of increasing maturity.

T1 seed comments

T1 seedling comments

Genotype: AQV A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

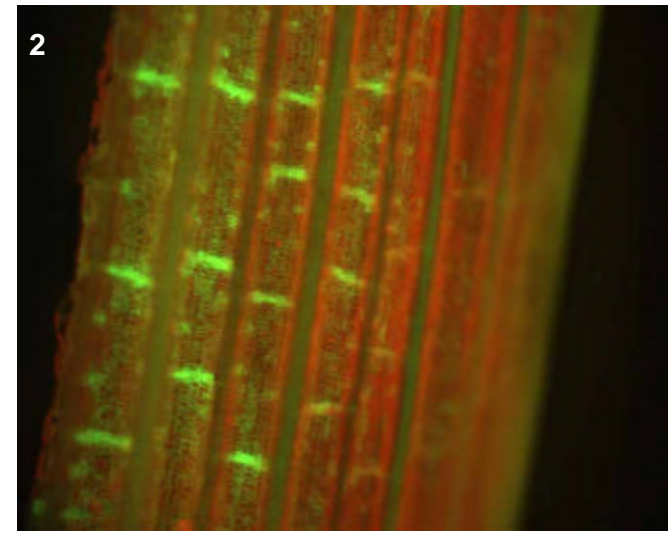
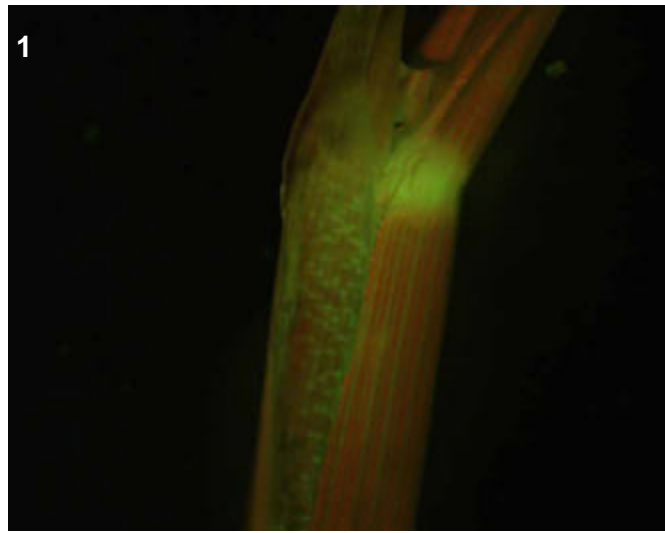
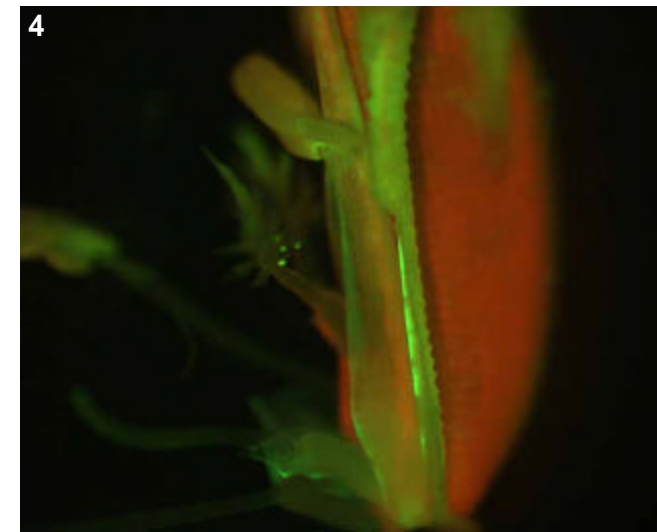
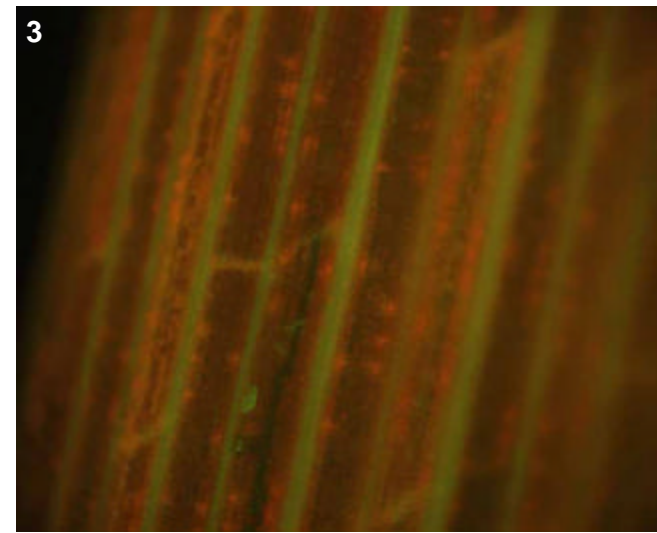
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AQV E12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

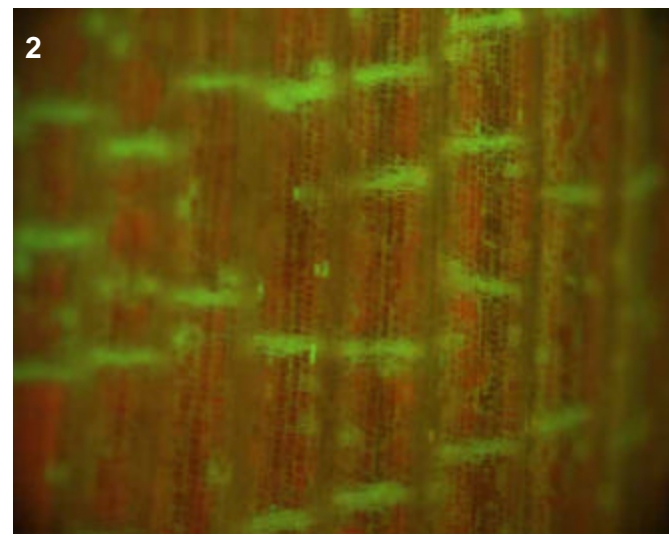
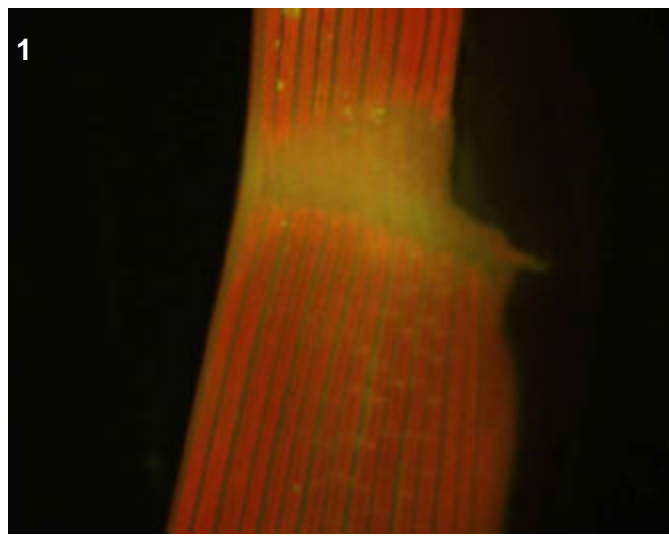
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 0



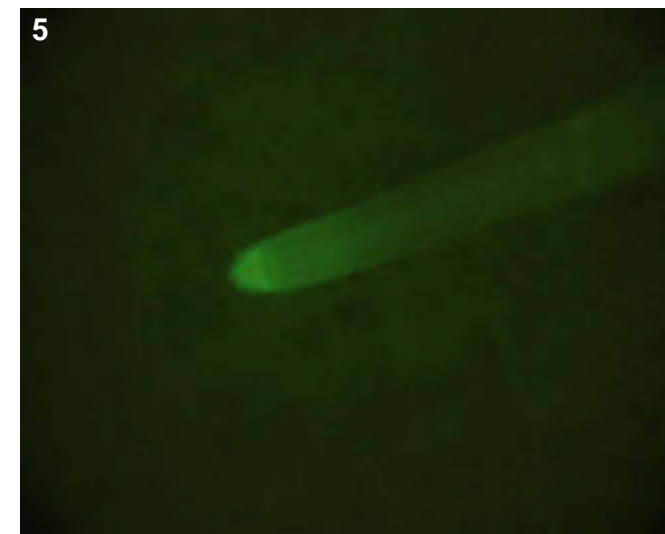
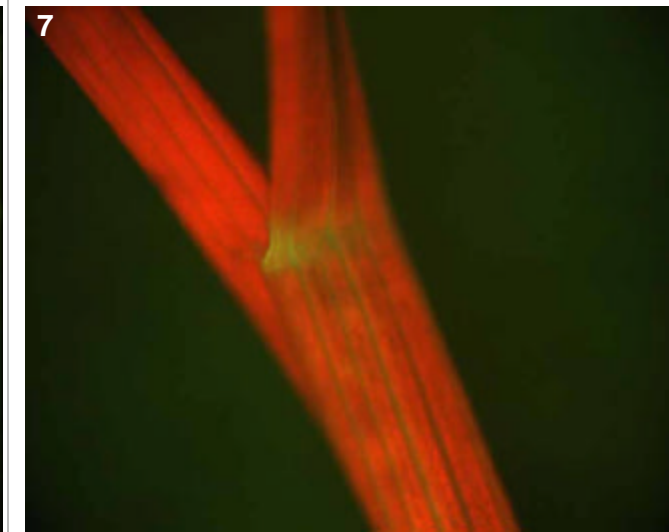
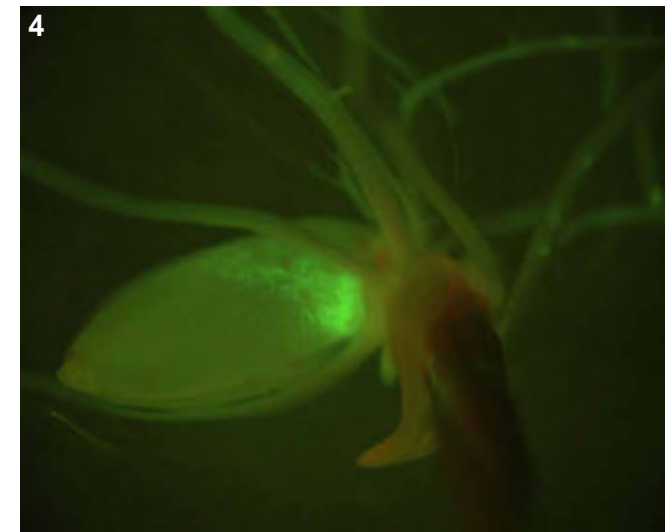
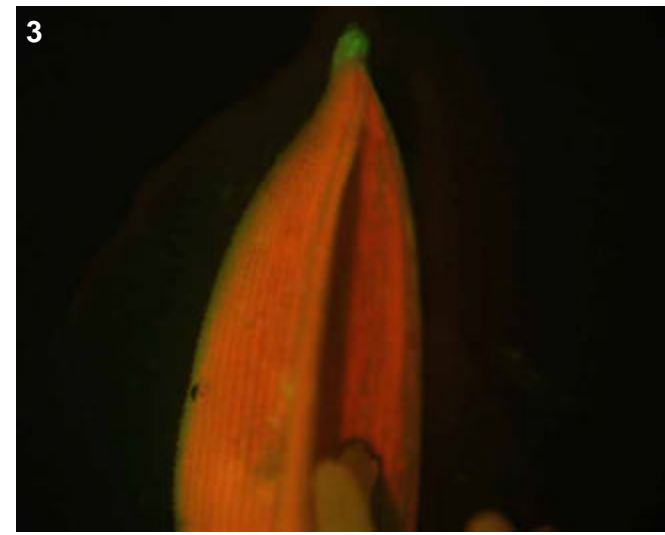
T0 comments

Medium collar expression and sheath vascular. GFP in tips of flower as well.

T1 seed comments

T1 seedling comments

Most expression in vascular of roots. Sometimes a bright root cap of crown roots (pic 5), but variable. Expression in collar quite faint.



Genotype: A Q V G 1 1

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1-2
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

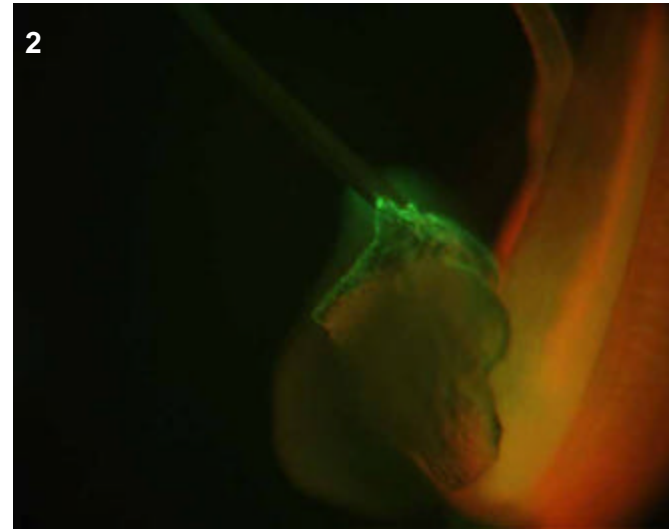
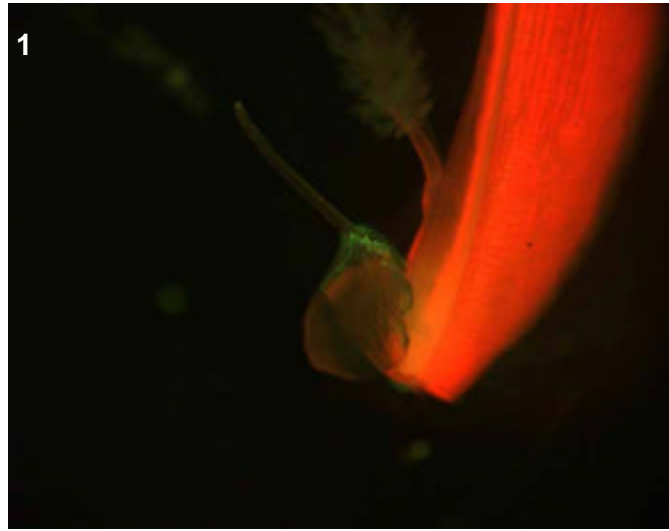
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 2 plants

Confocal?

Number T2 seed produced: 3



T0 comments

Just the outer edges of the lodicules.

T1 seed comments

T1 seedling comments

Genotype: AQW A03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

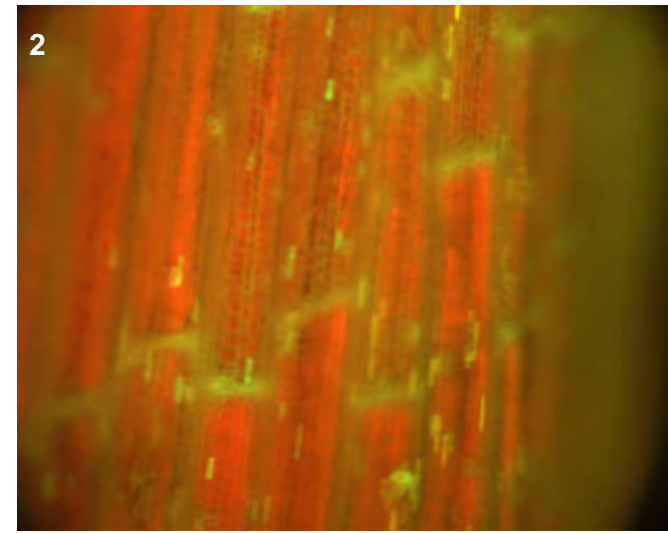
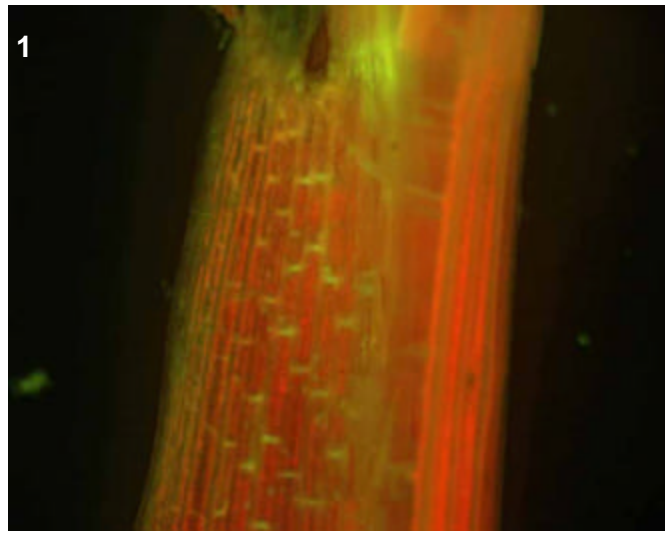
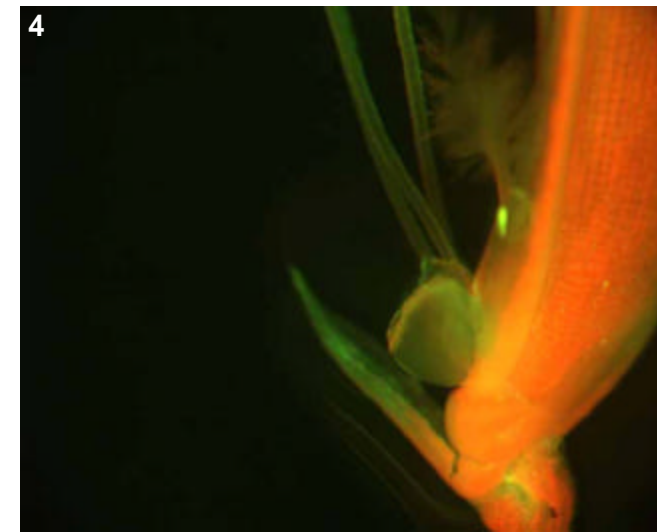
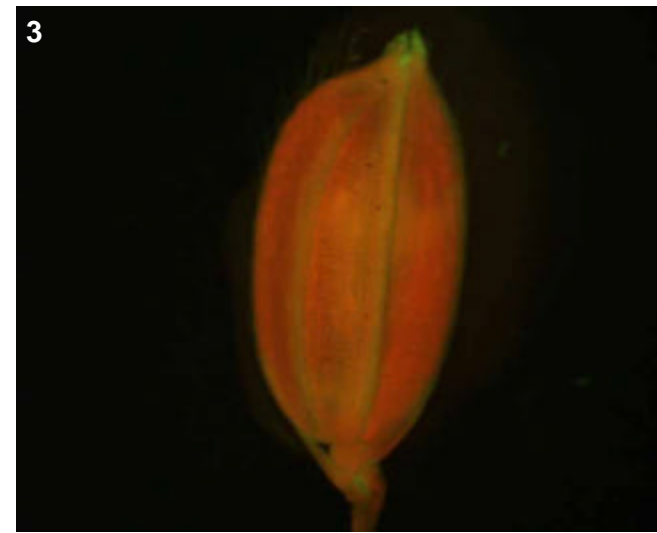
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright in floral tips

T1 seed comments

T1 seedling comments

Genotype: AQW A07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

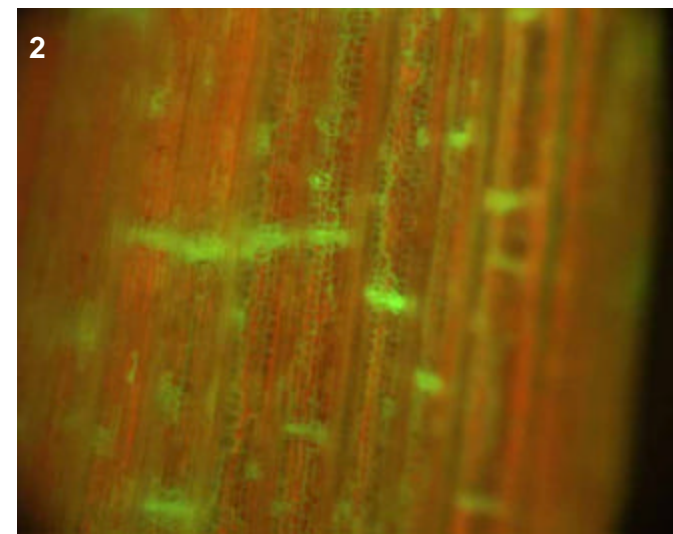
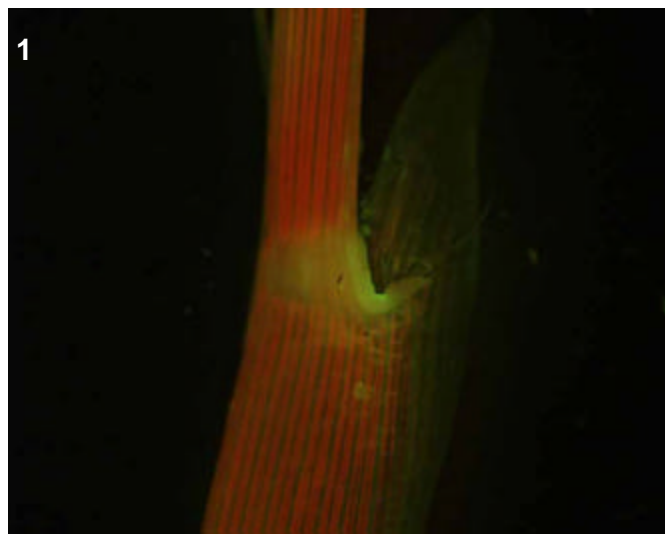
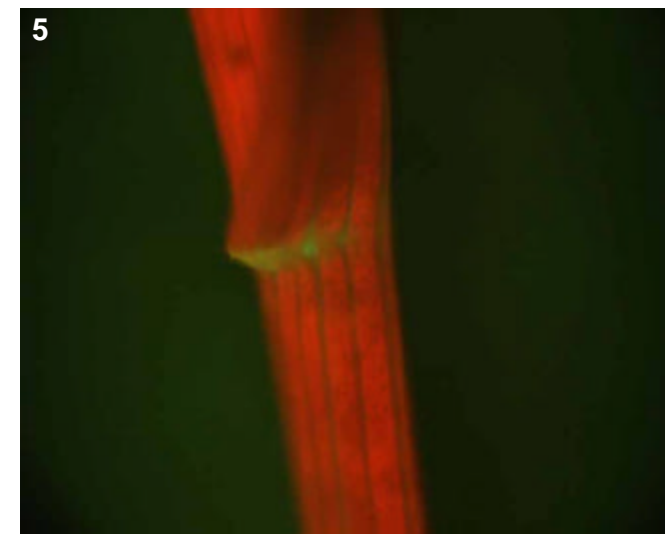
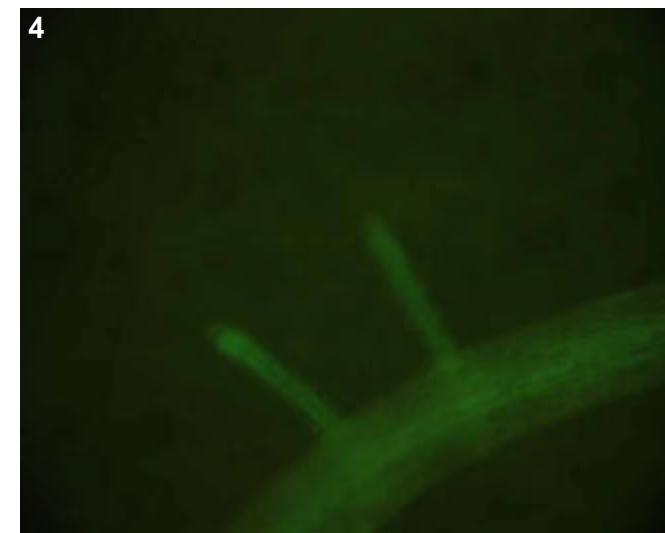
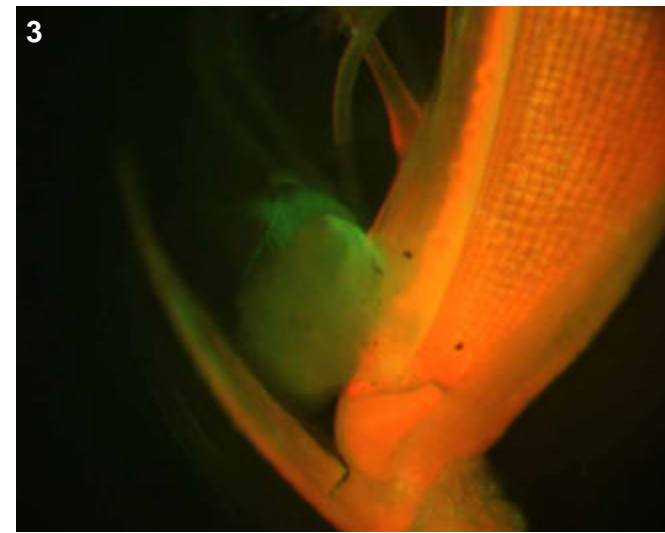
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 4



T0 comments

Expression in collar is limited to where the ligule emerges. In lodicules, limited to the upper part of lodicules.

T1 seed comments

T1 seedling comments

Genotype: AQW A08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

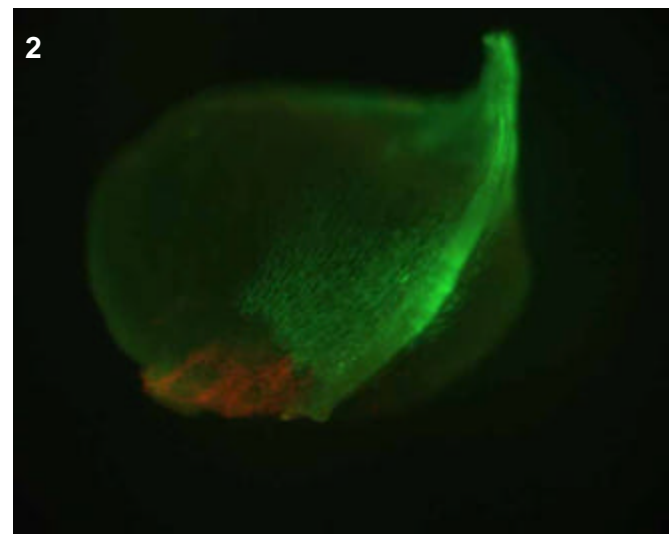
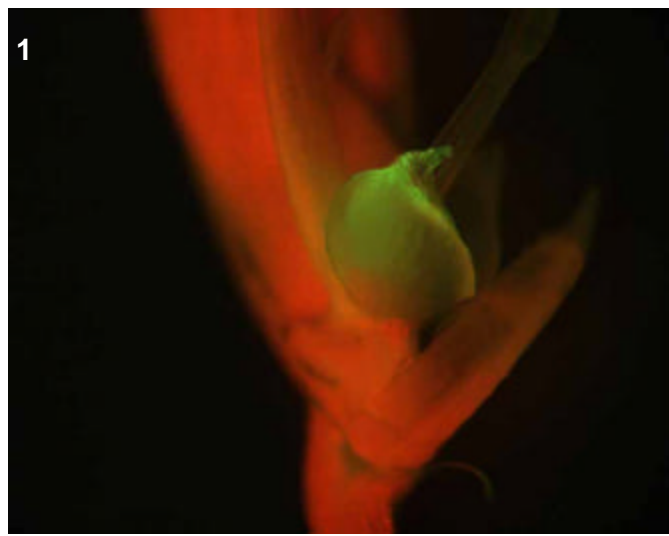
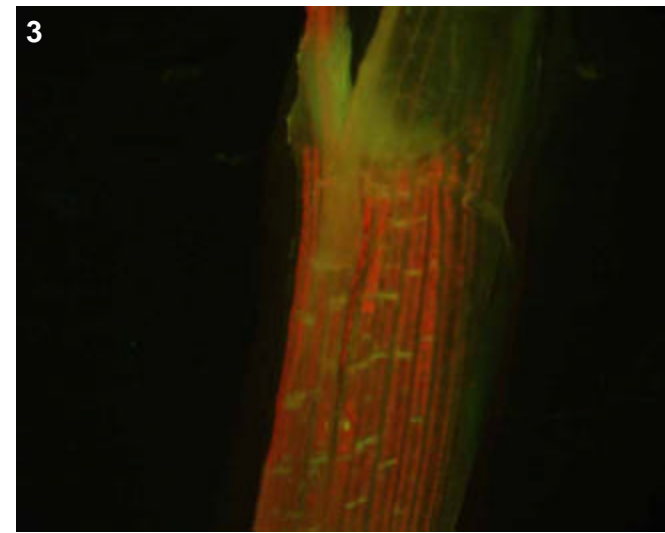
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Faint collar yet bright bright sheath vascular, floral lodicules and tips.

T1 seed comments

T1 seedling comments

Genotype: AQW B12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

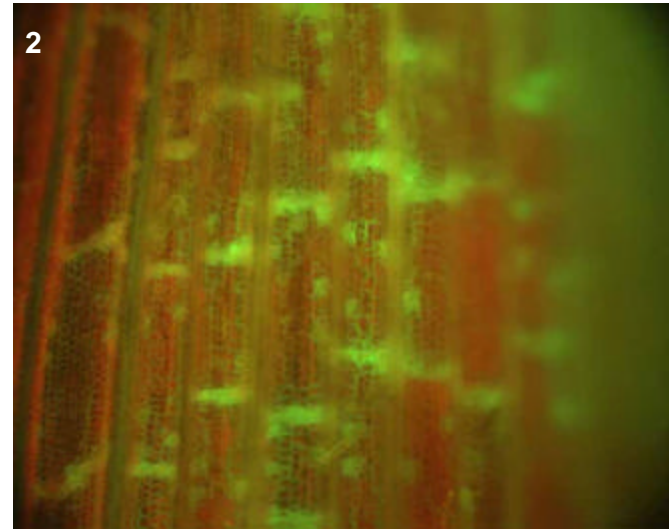
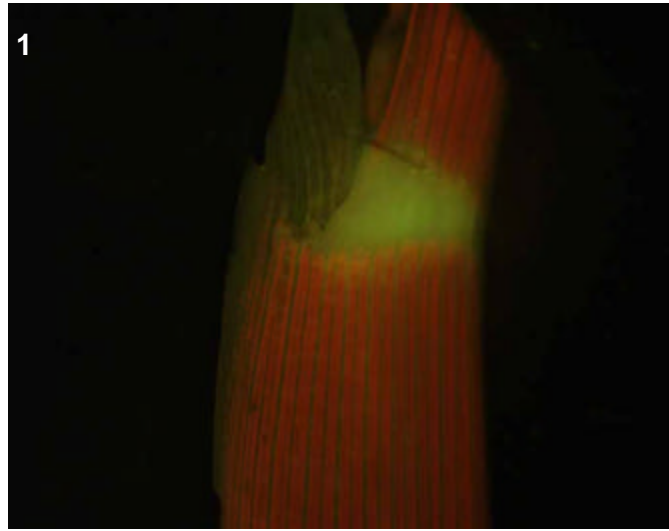
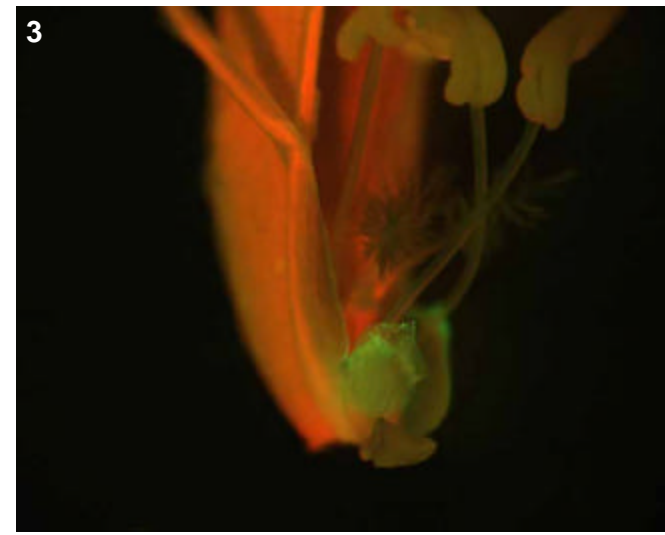
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AQW C02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

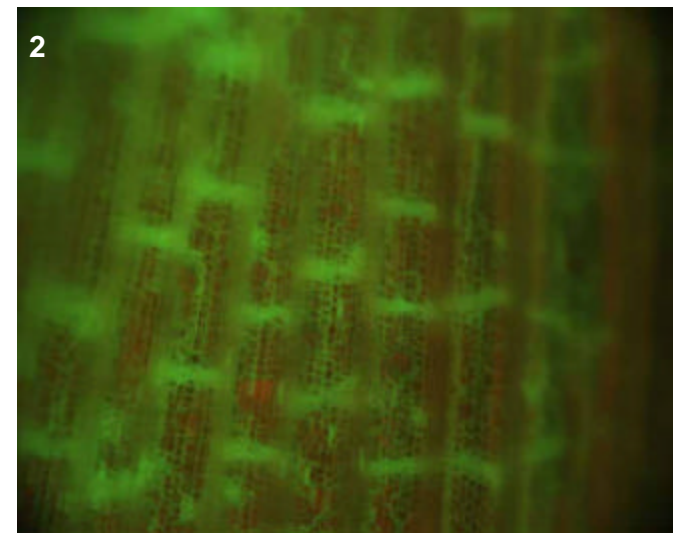
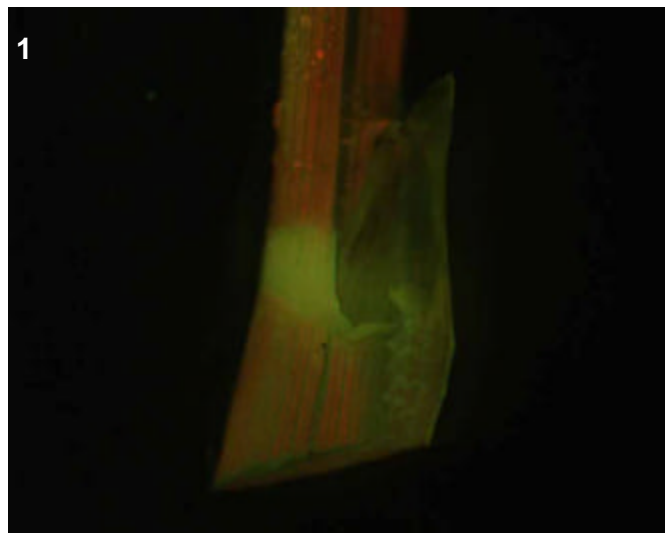
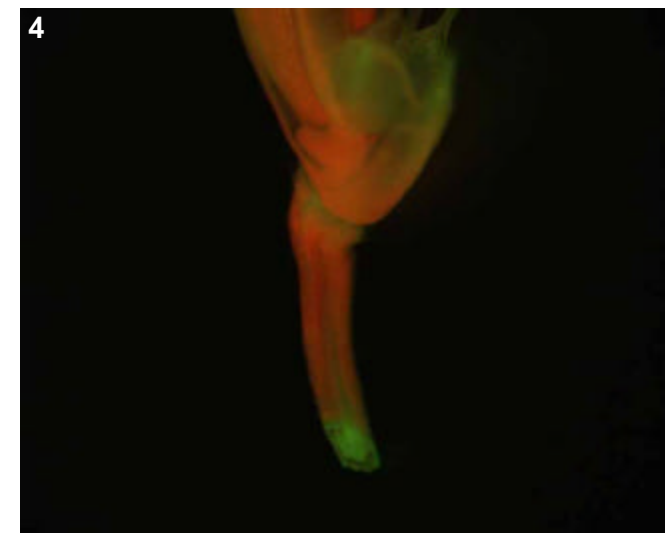
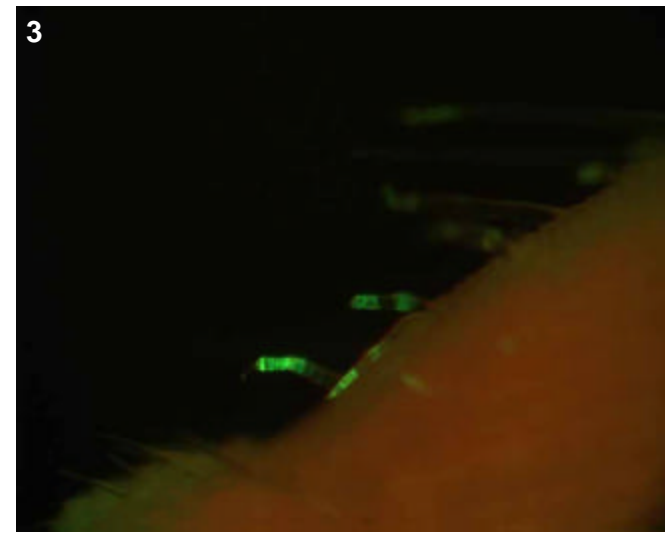
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? YES, 3 plants
 Confocal?

Number T2 seed produced: 11



T0 comments

Expression in several unusual floral regions: rachilla, lodicules and trichomes.

T1 seed comments

T1 seedling comments

Genotype: AQW F07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-6
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

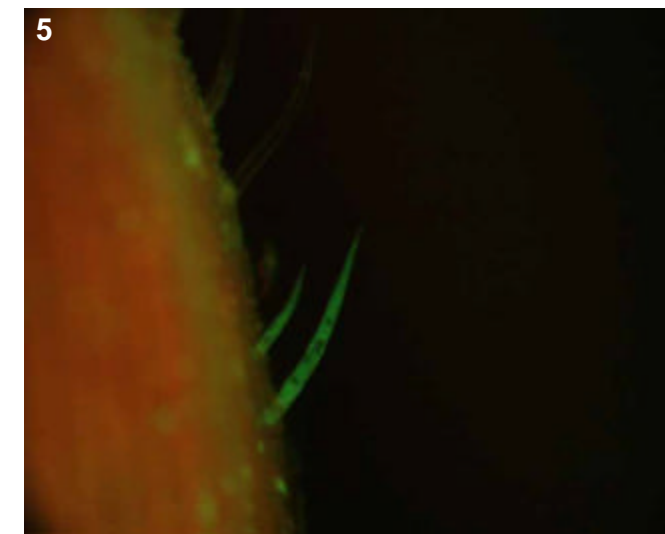
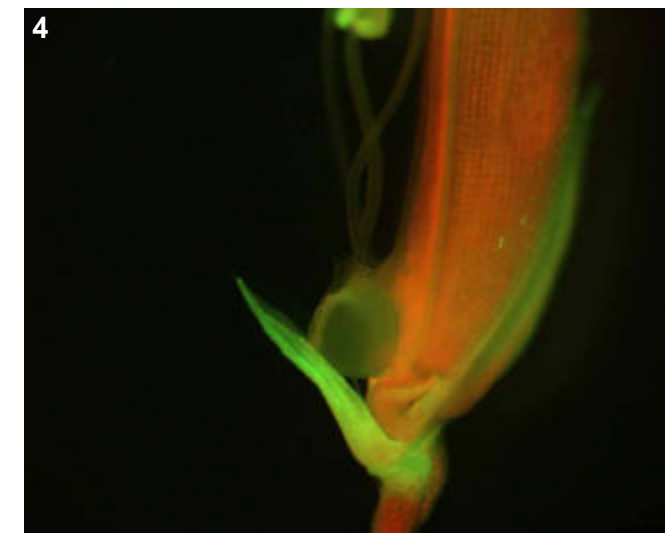
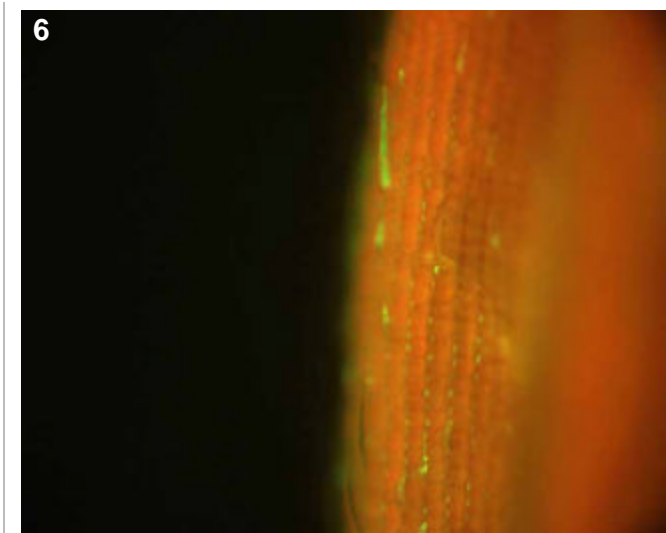
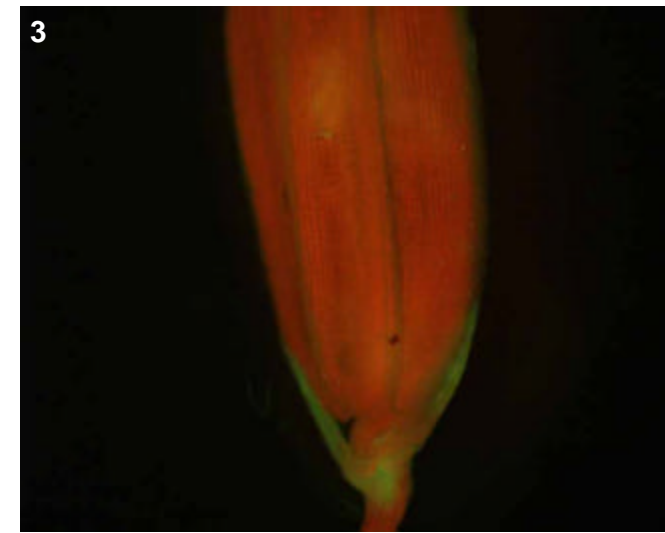
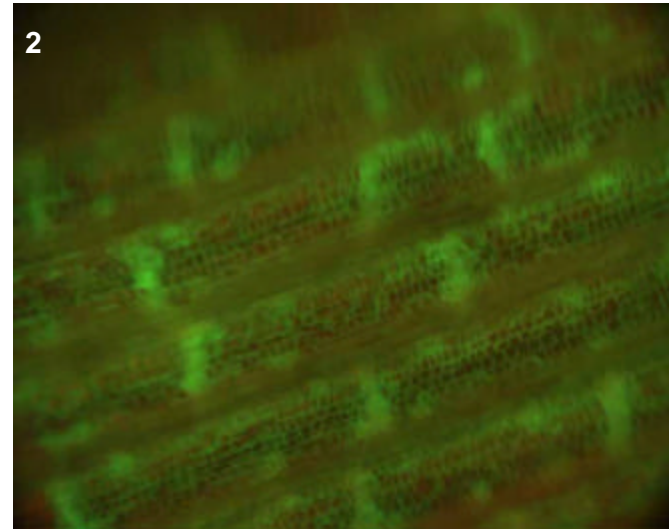
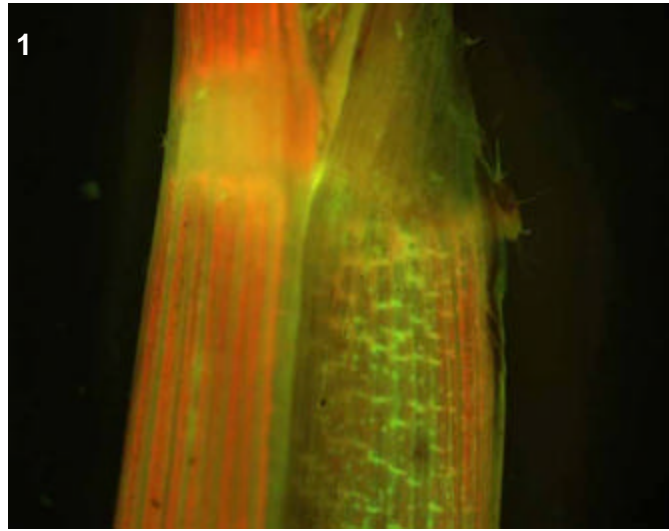
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Weak collar expression, but bright sheath vascular. Rather scattered expression in floral trichomes and guard cells. Also expression in sterile lemmas.

T1 seed comments

T1 seedling comments

Genotype: AQW F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

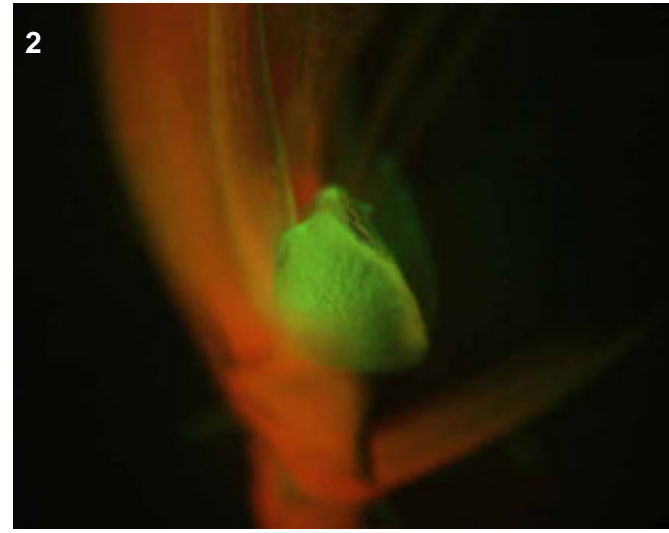
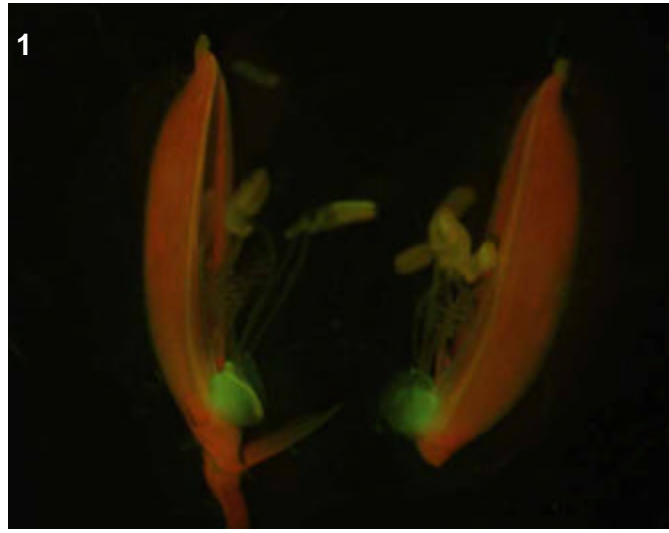
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

lodicule-specific line.

T1 seed comments

T1 seedling comments

Genotype: AQW H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

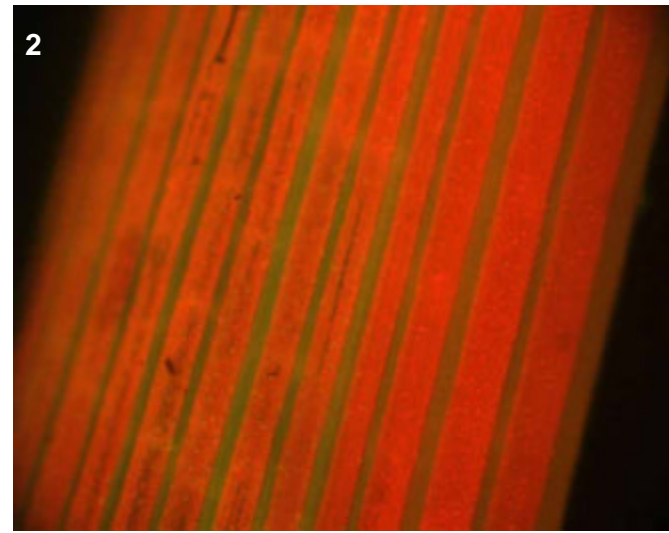
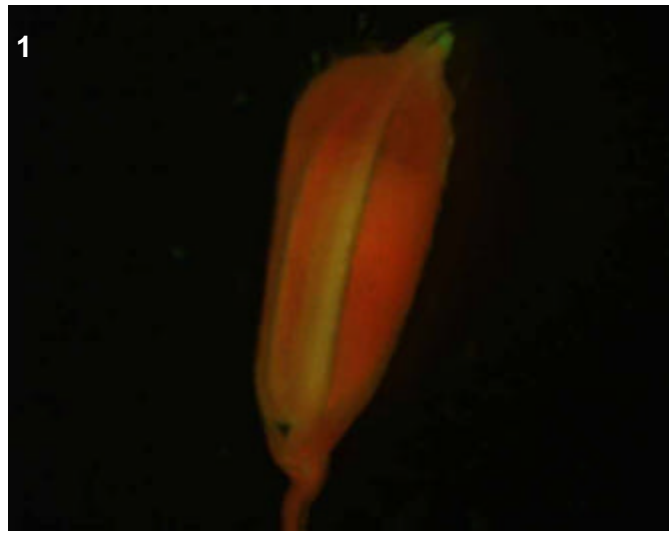
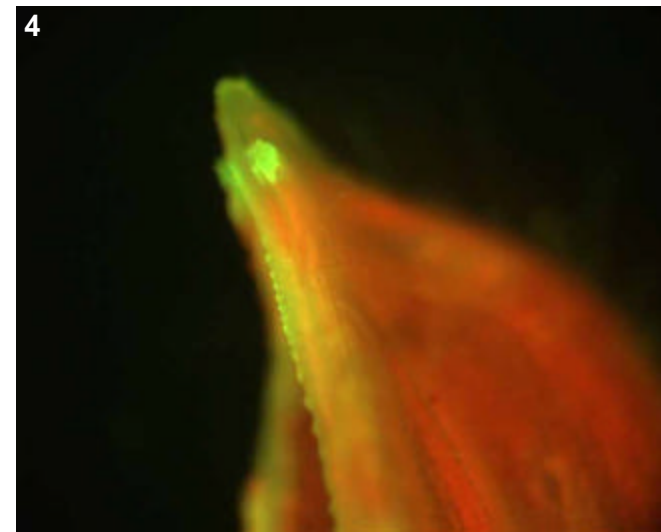
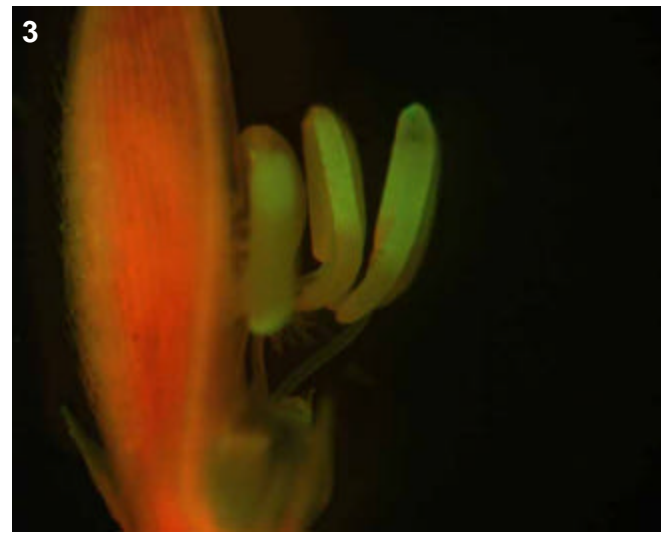
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

In flowers--patchy expression in anthers (perhaps in pollen), vascular and in the tips. In the sheath, vascular expression in the outer surface, but not in the collar or the interior vascular of the sheath

T1 seed comments

T1 seedling comments

Genotype: AQX A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

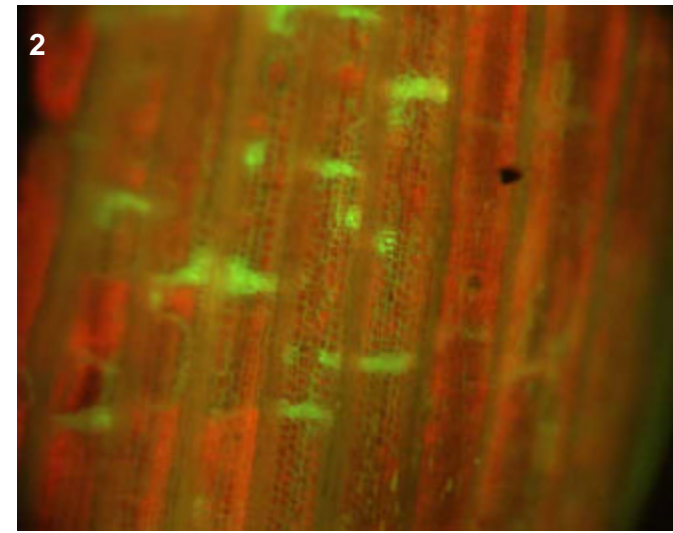
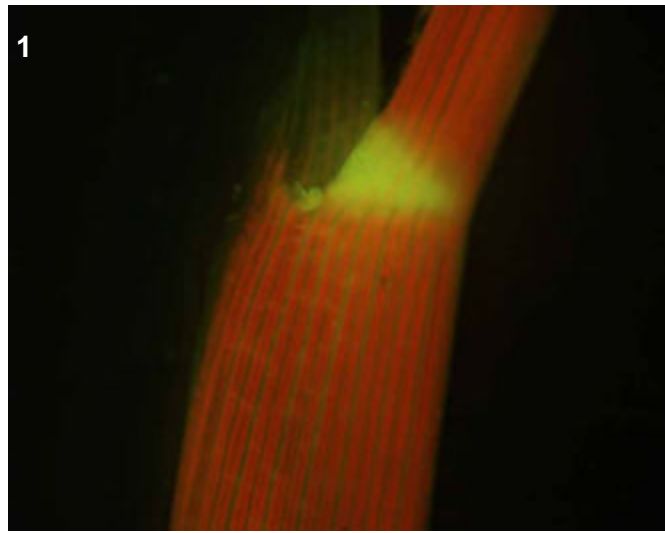
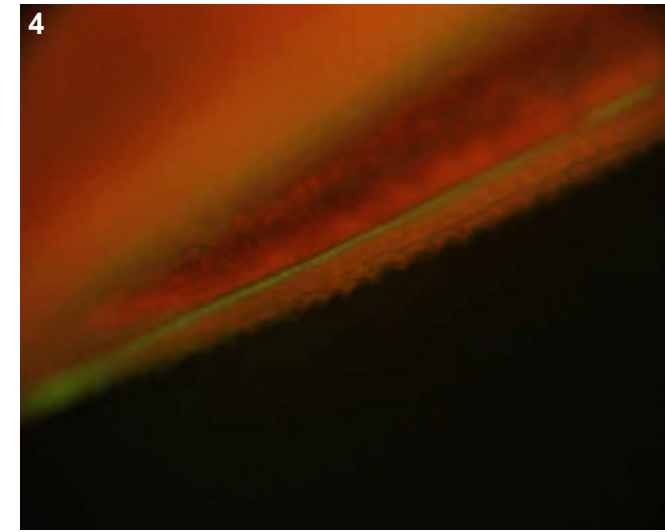
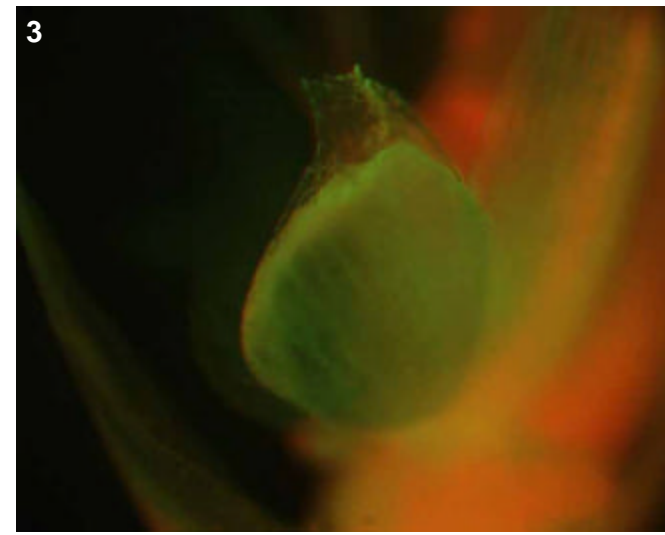
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AQX A08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

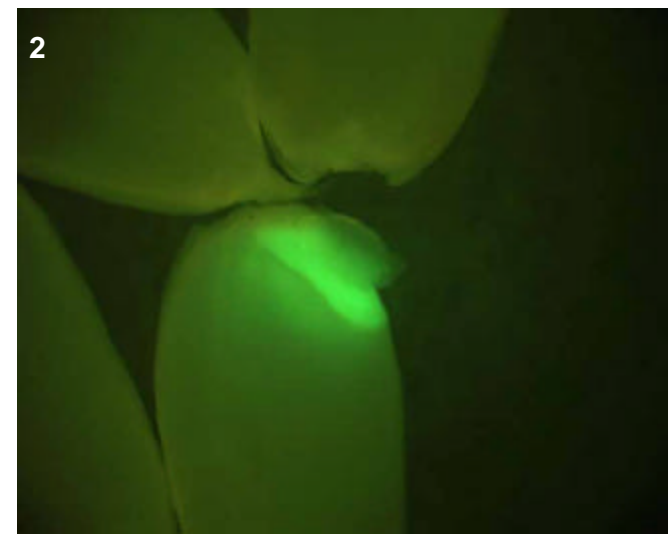
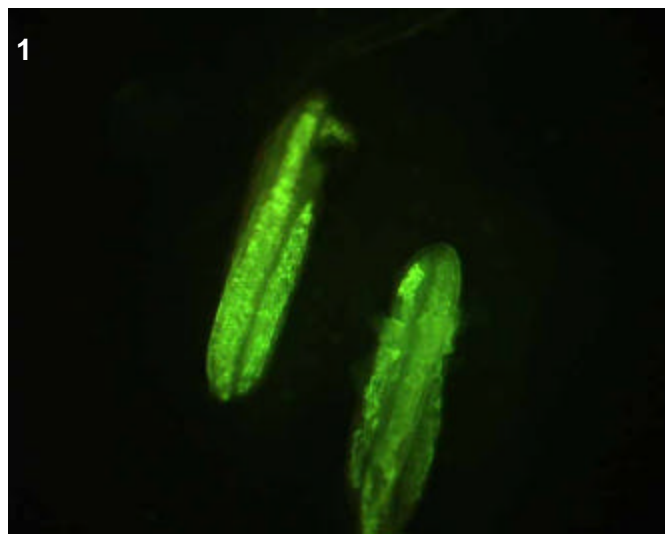
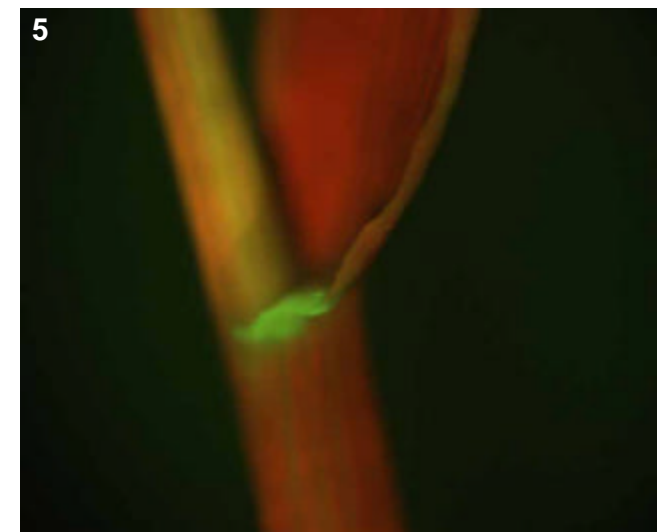
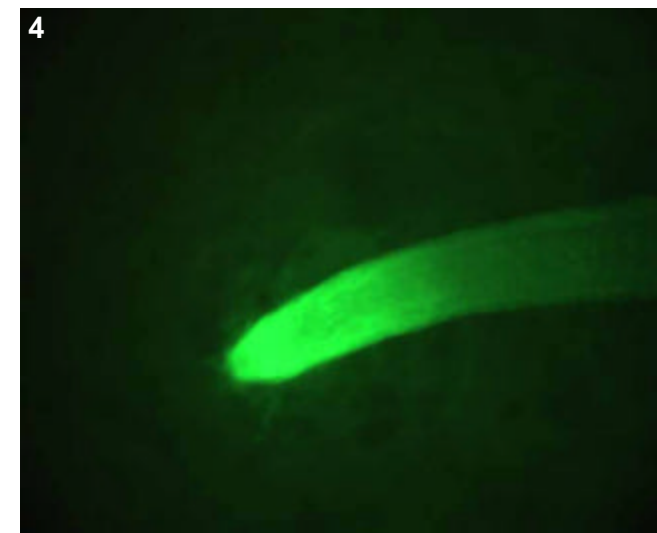
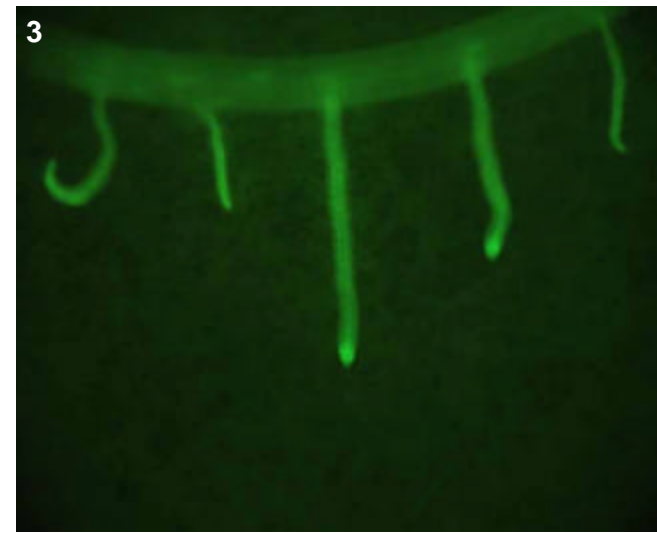
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 41



T0 comments

anther wall only

T1 seed comments

2/5 seeds showed bright embryo expression

T1 seedling comments

Root expression could be interesting--note the extremely bright lat root tips. Epidermal?

Genotype: AQX B08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

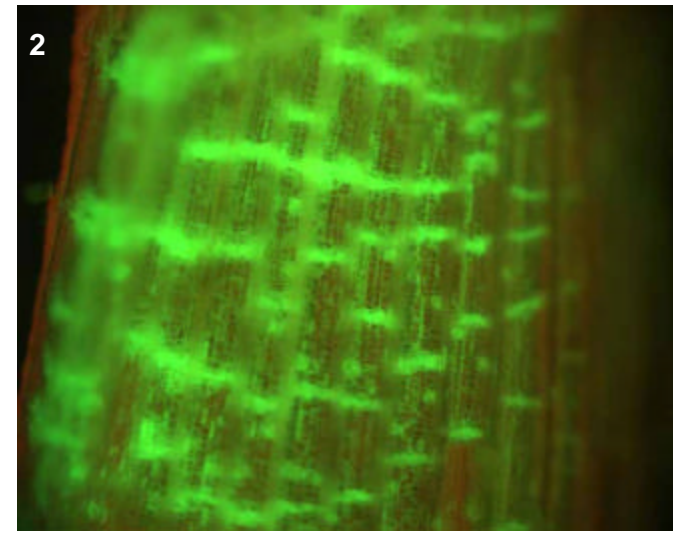
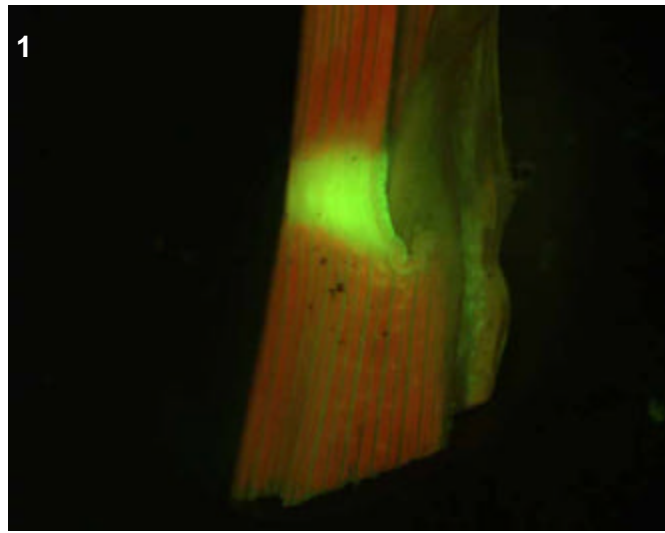
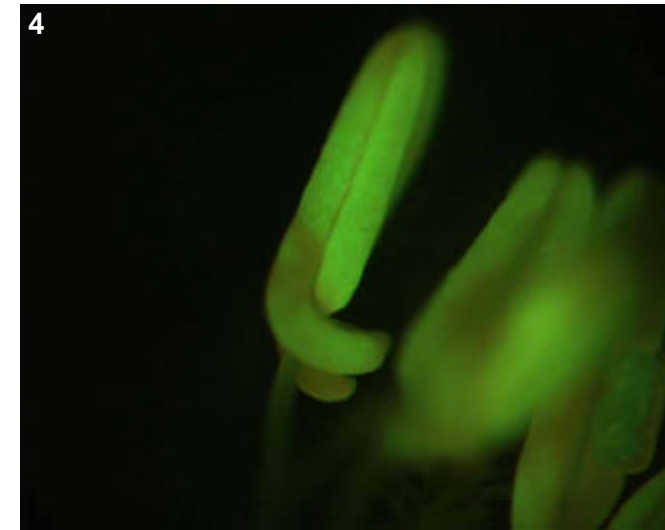
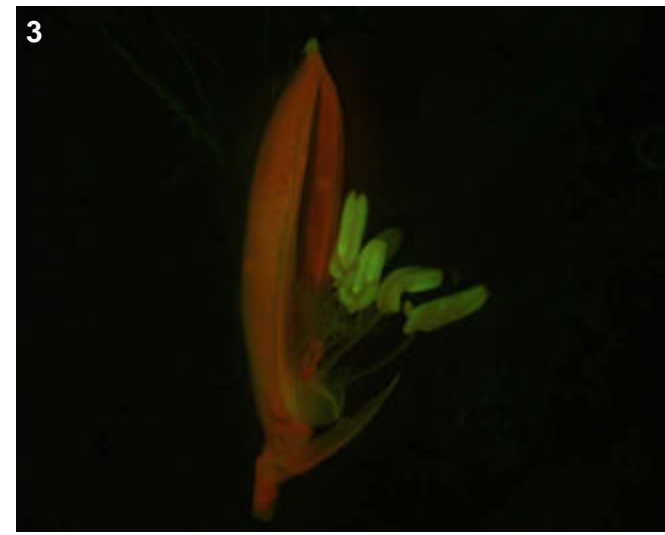
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Brightest expression in the collar and sheath vascular. Less bright in the anther wall and floral tips.

T1 seed comments

T1 seedling comments

Genotype: AQX E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

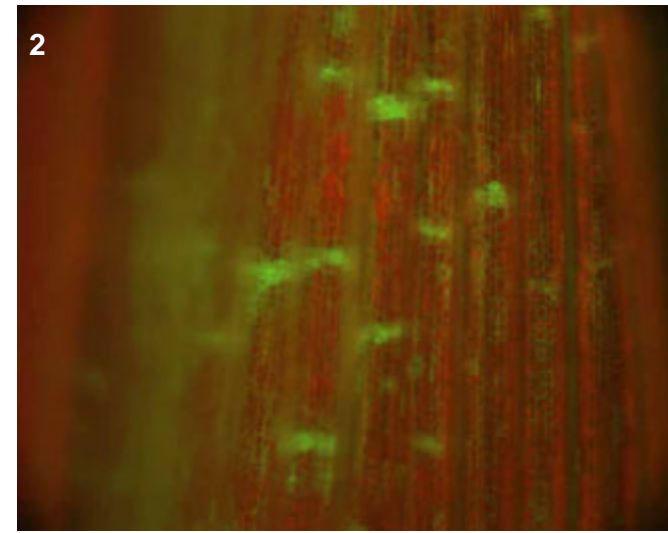
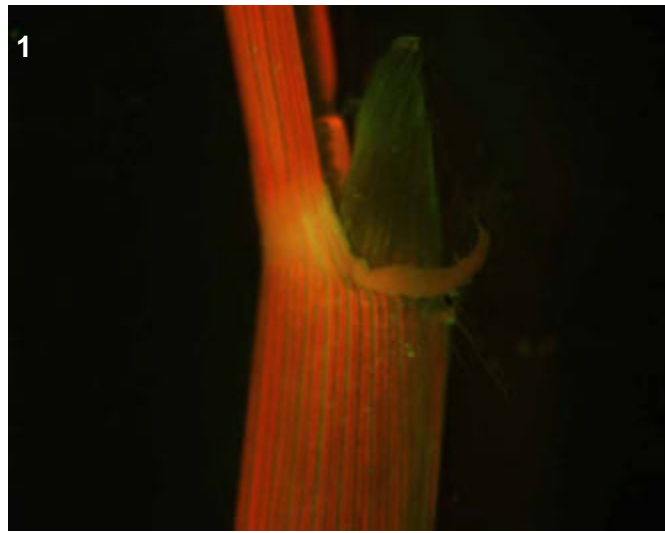
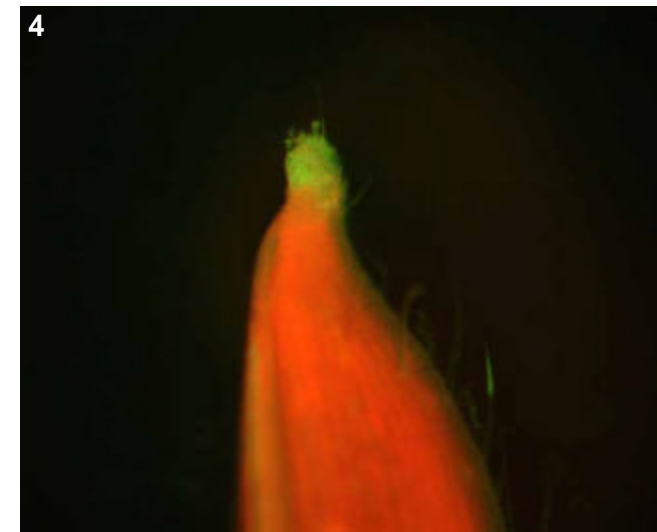
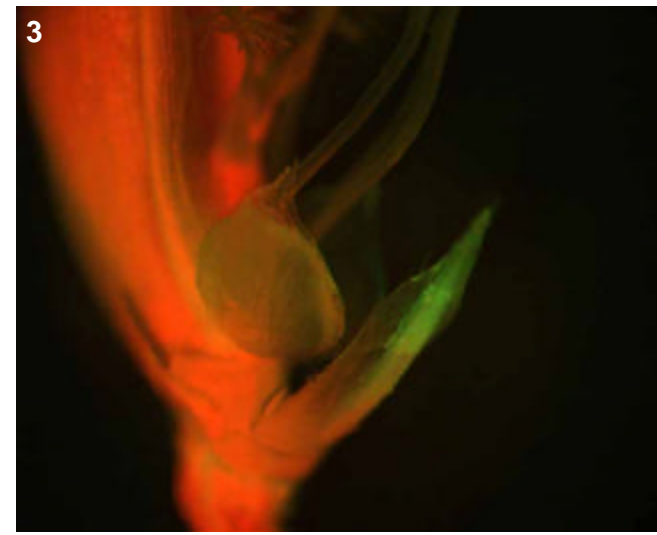
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Sheath expression was brighter than the floral expression. Note the floral tip in picture 4. There was also what looked like patchy expression in the anthers.

T1 seed comments

T1 seedling comments

Genotype: AQX G12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

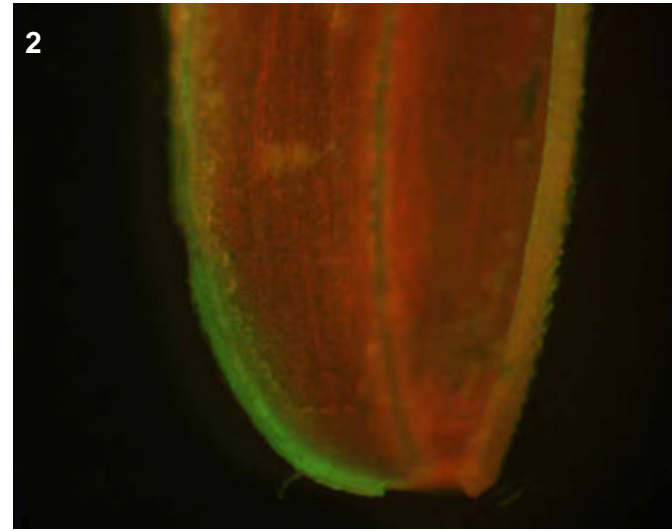
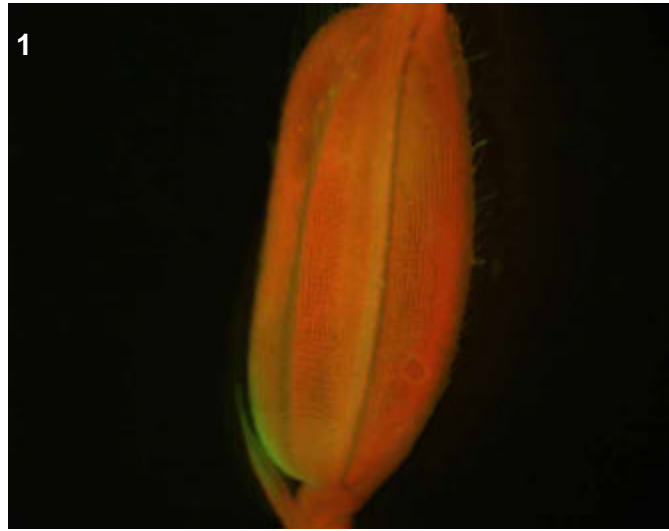
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Interesting floral vascular expression, because brightest near the base of lemma/palea.

T1 seed comments

T1 seedling comments

Genotype: AQX H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

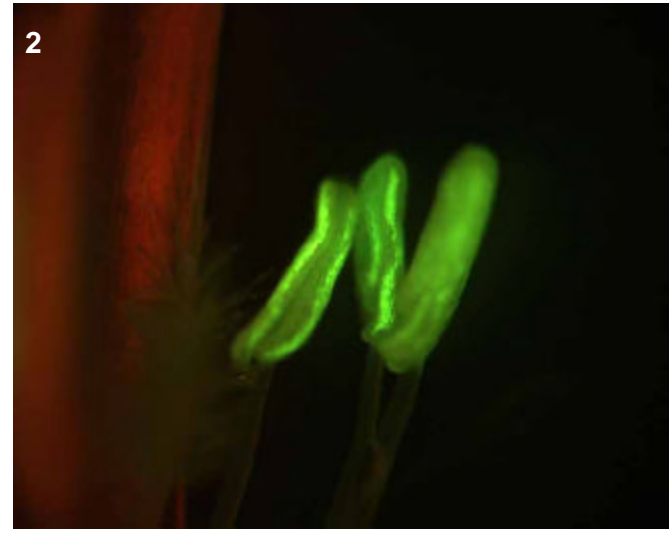
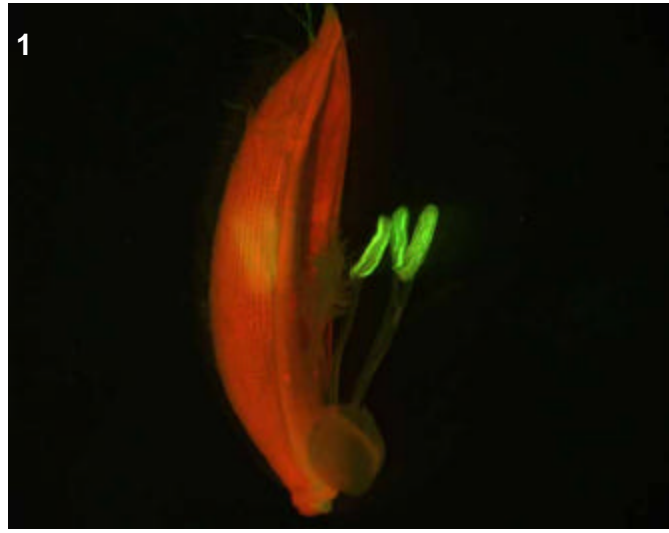
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

anther wall

T1 seed comments

T1 seedling comments

Genotype: AQY B06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

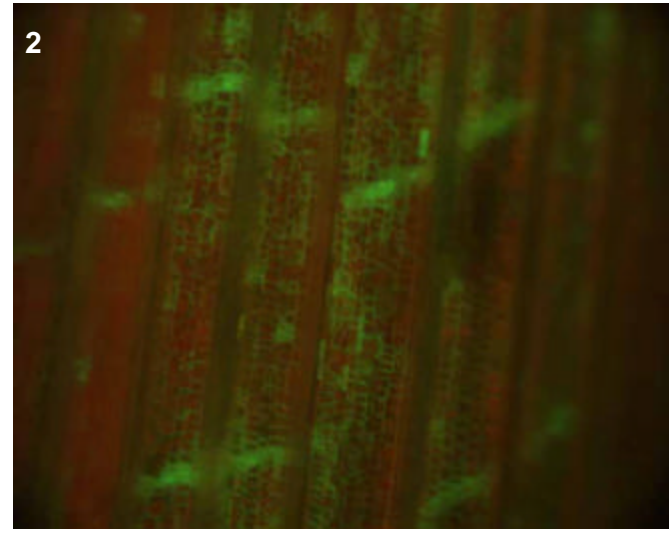
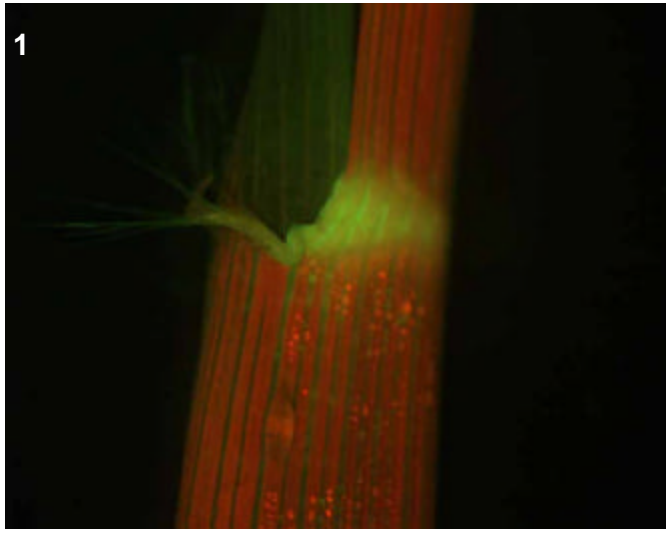
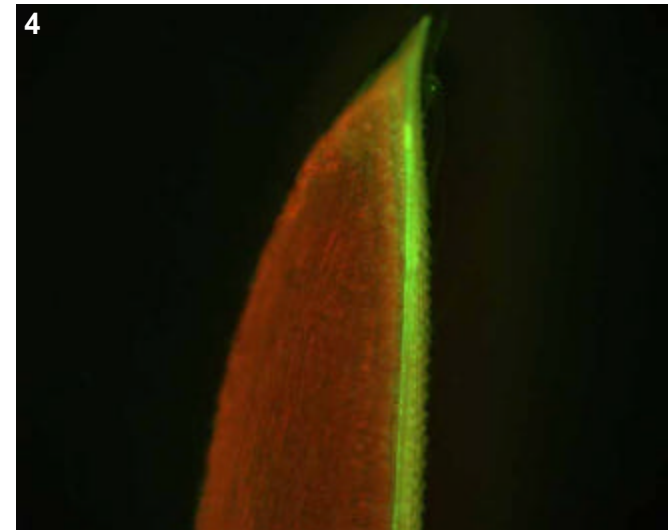
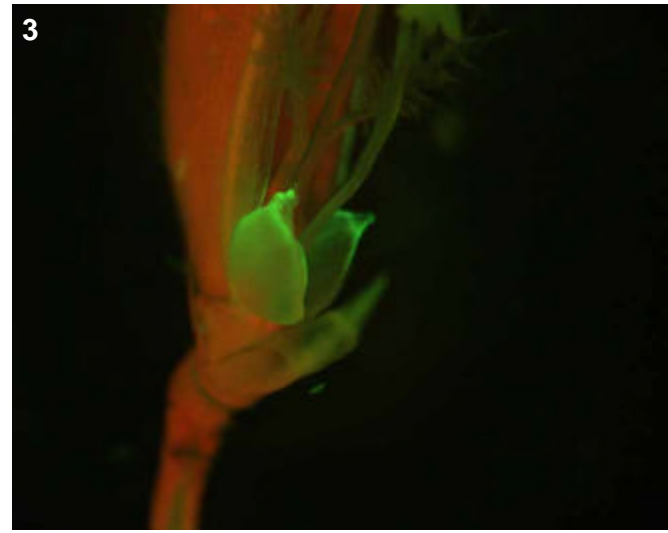
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AQY C03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

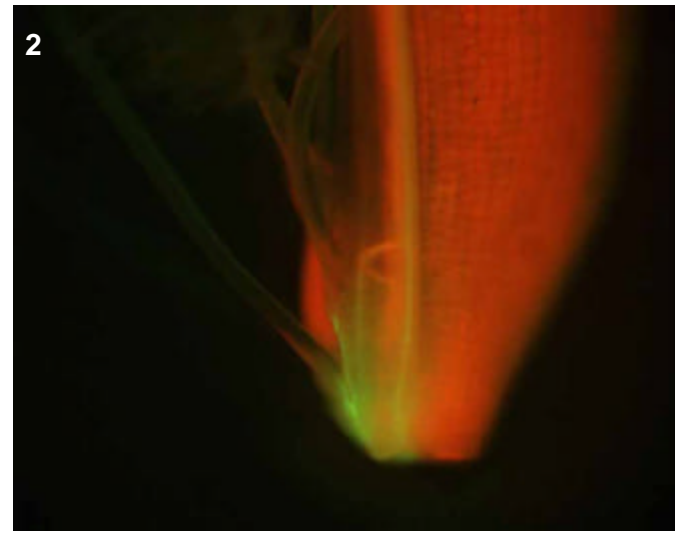
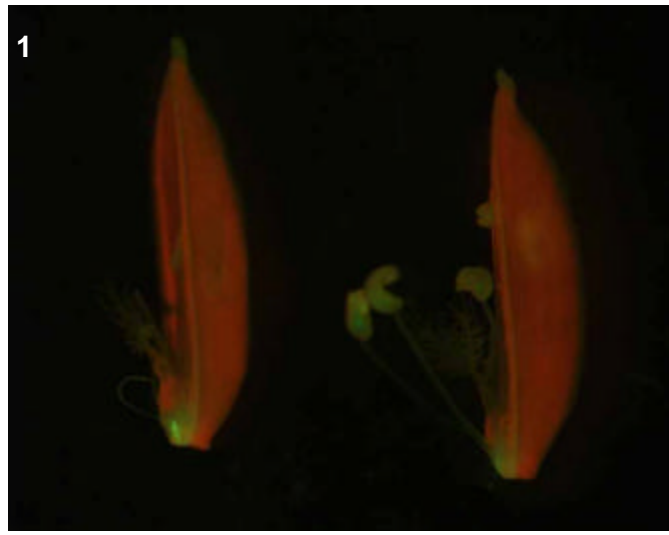
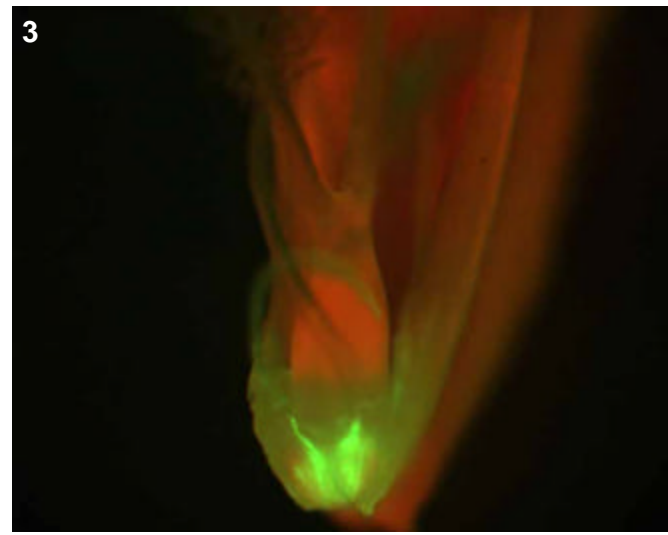
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: AQY D09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

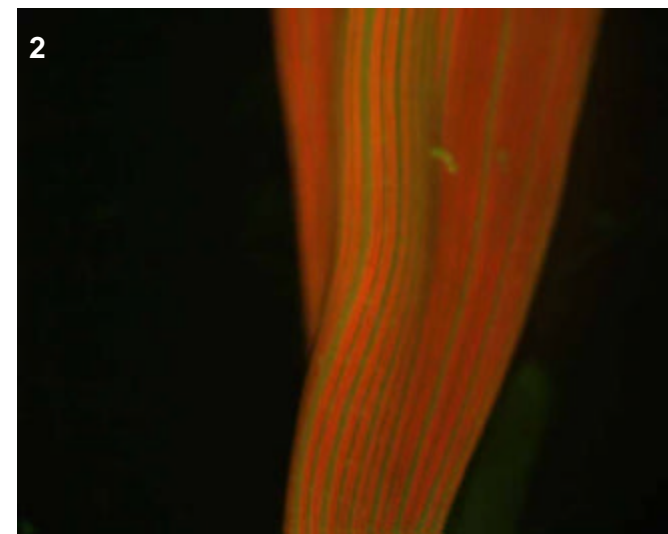
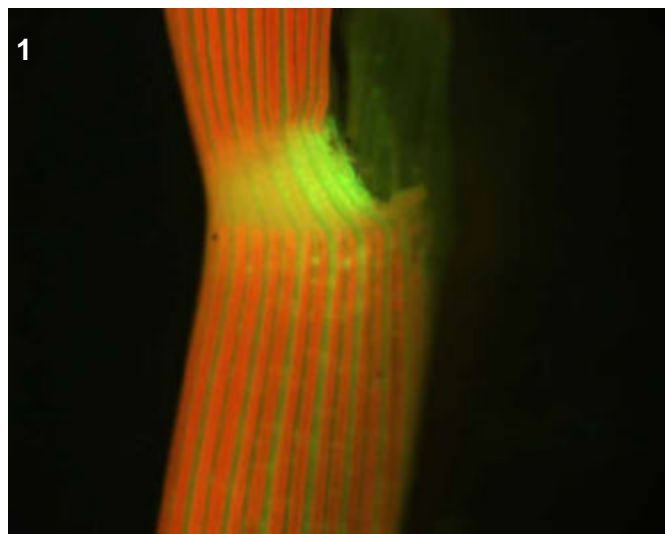
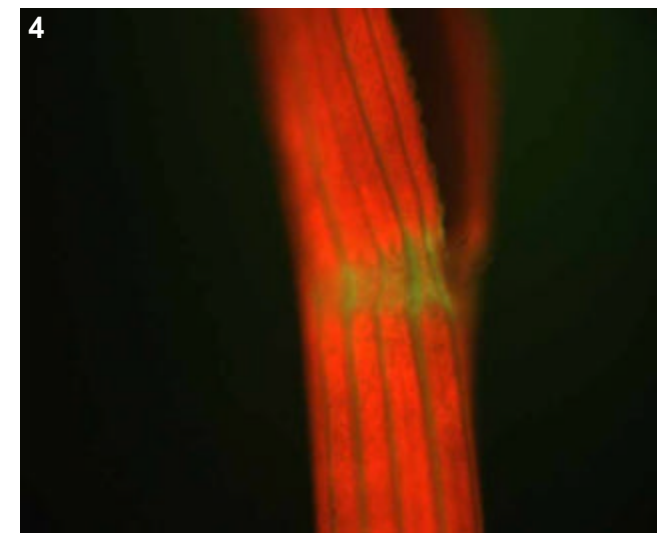
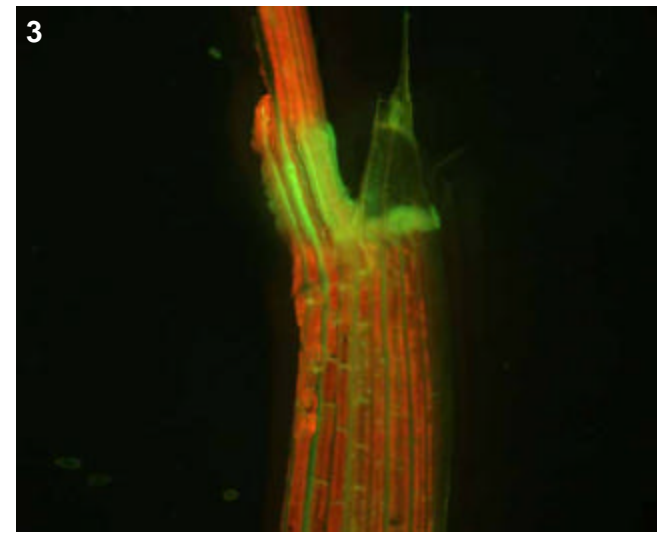
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 69



T0 comments

Possibly a leaf phenotype (see pic 2). Bright collar and surrounding vertical vascular elements, not so much the horizontal ones. Also faint expression in lodicules but no pic.

T1 seed comments

T1 seedling comments

Also looked to be some expression in the scutellum region of the digesting seed.

Genotype: AQY E05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

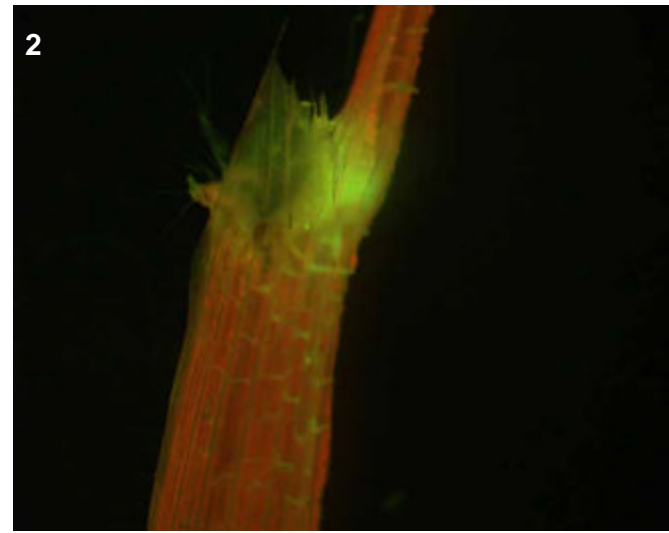
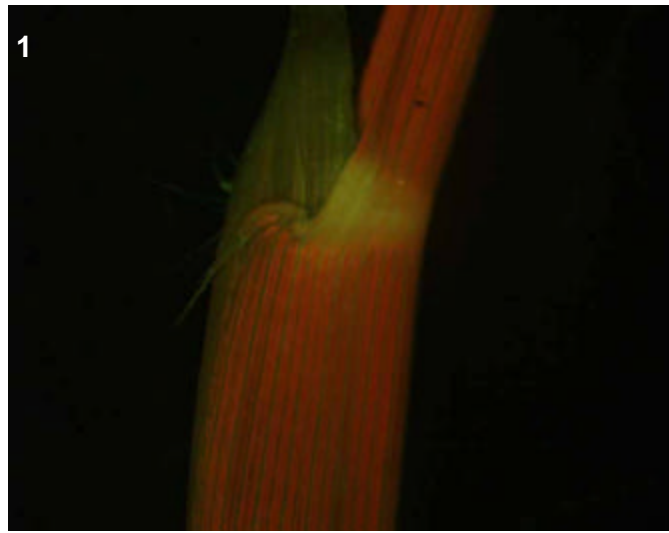
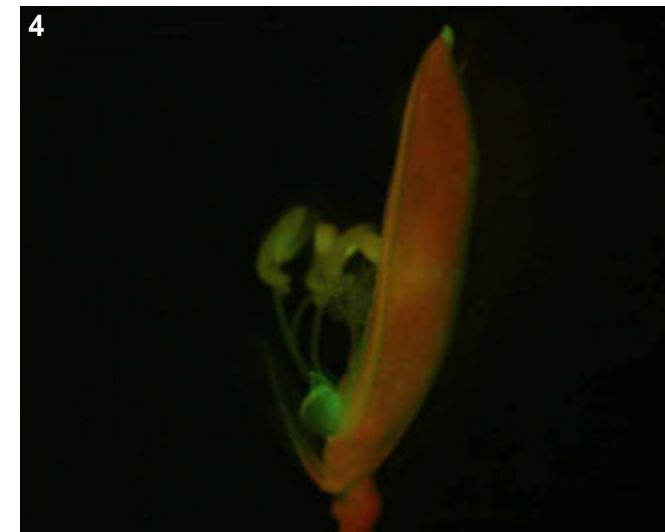
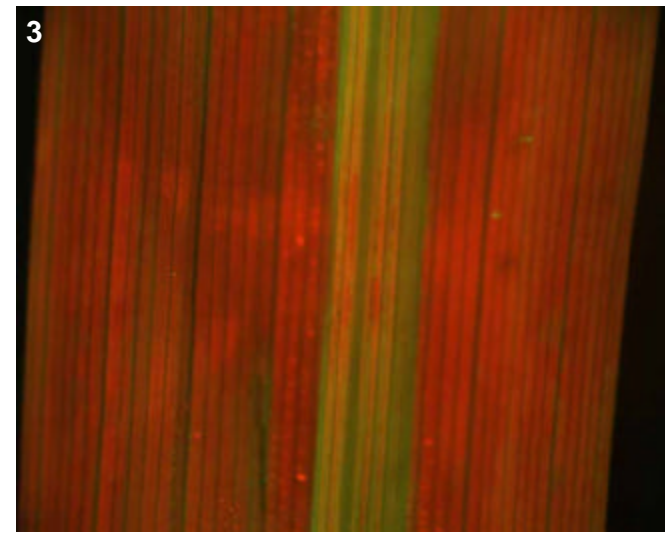
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Note the expression in floral tips as well.

T1 seed comments

T1 seedling comments

Genotype: AQY E06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

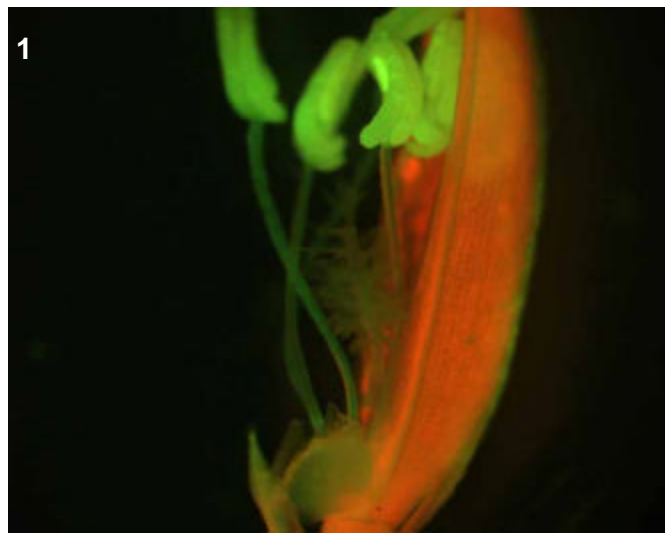
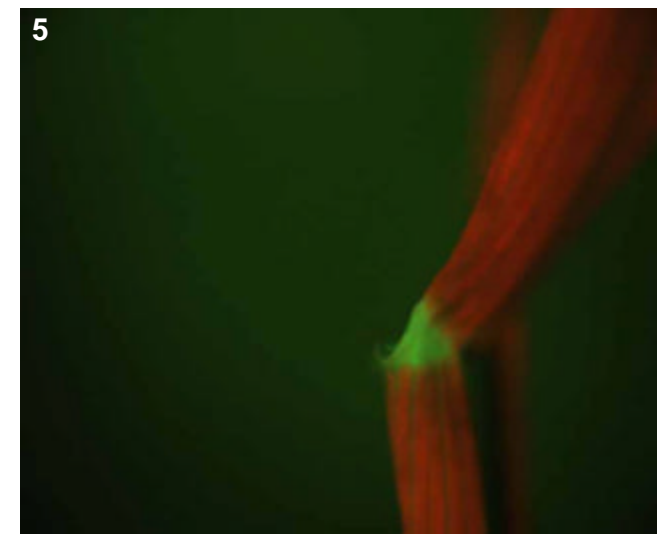
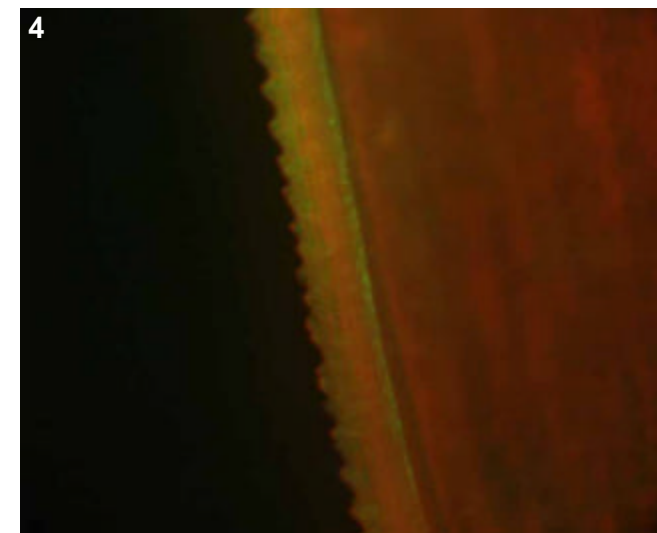
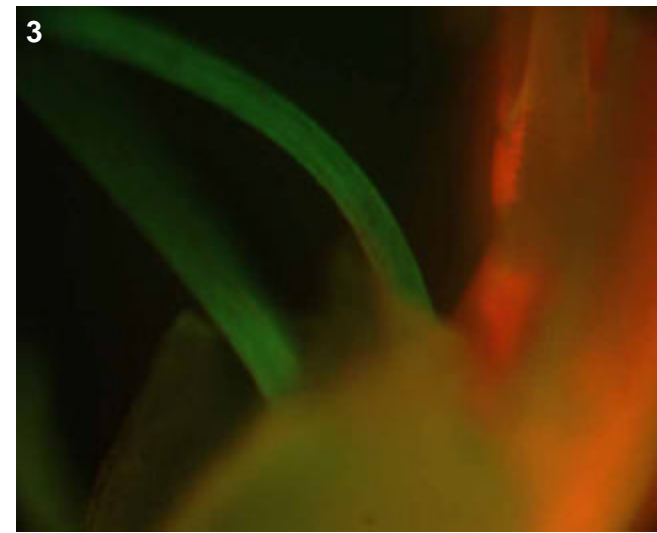
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 10



T0 comments

Bright anther filaments. Also faint floral vascular.

T1 seed comments

There may be faint scutellum expression in the seeds

T1 seedling comments

Expression was brighter in the shoot than in the root.

Genotype: AQY F04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

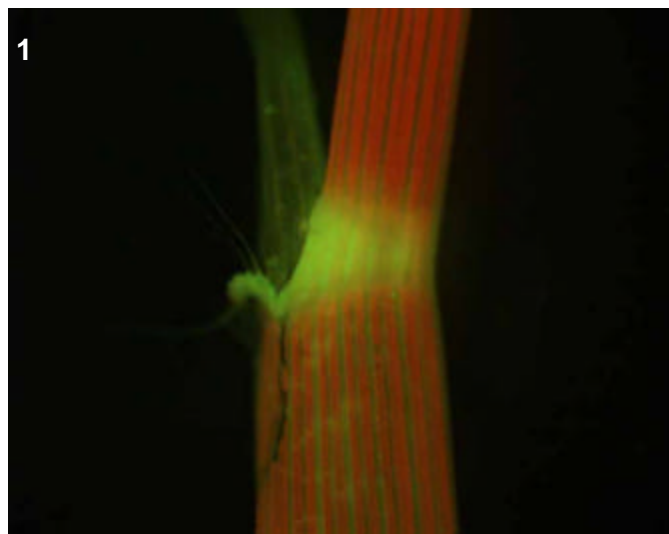
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 12



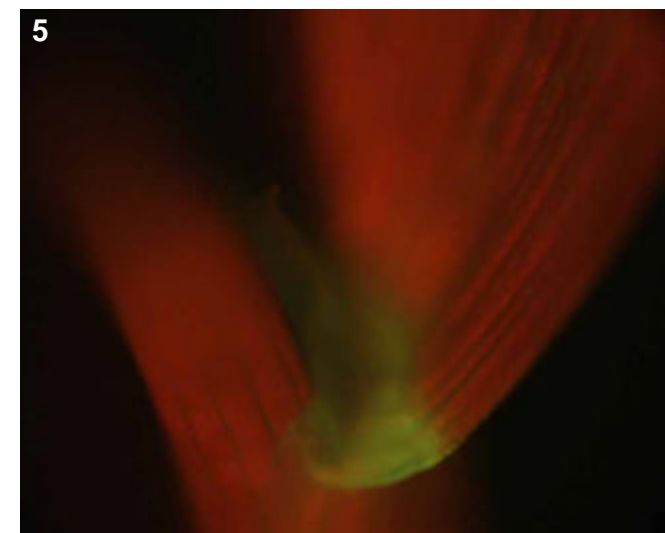
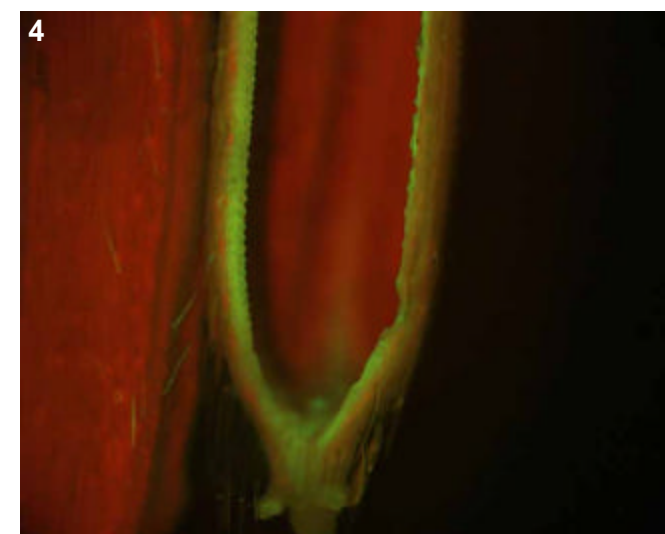
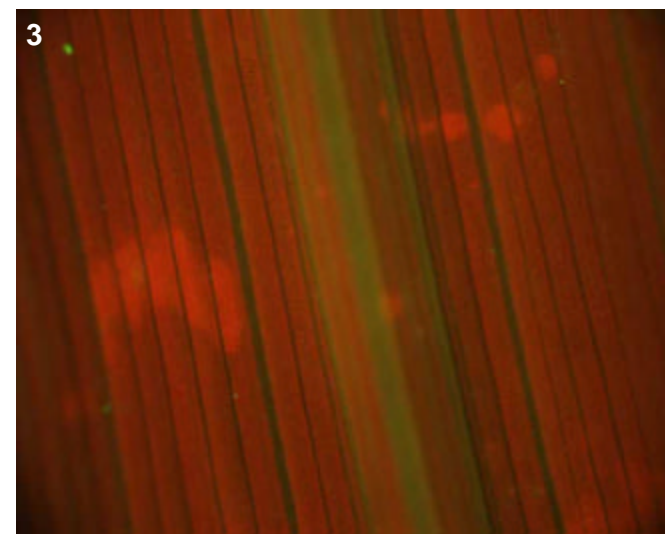
T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Faint expression in the collar and in what looks to be the endosperm region of the digesting seed.



Genotype: AQY F08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

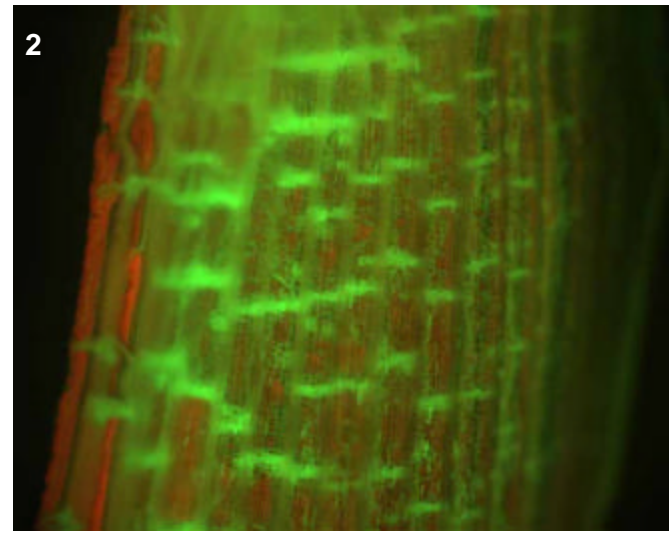
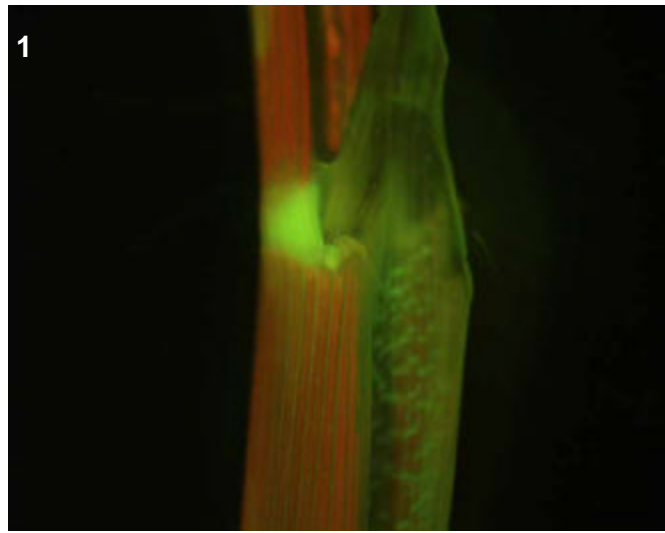
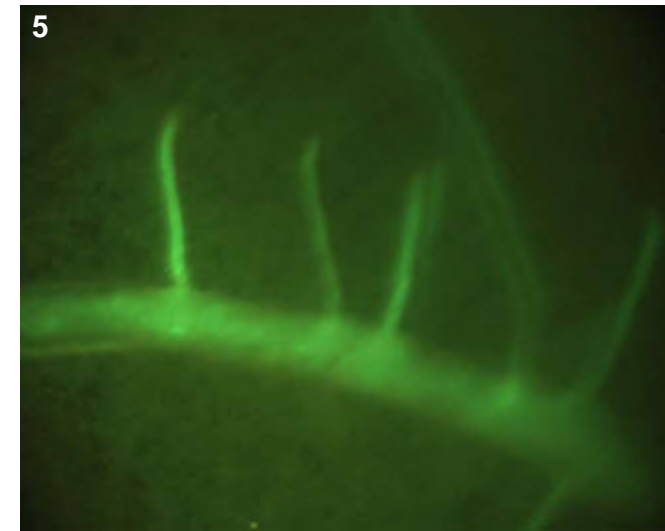
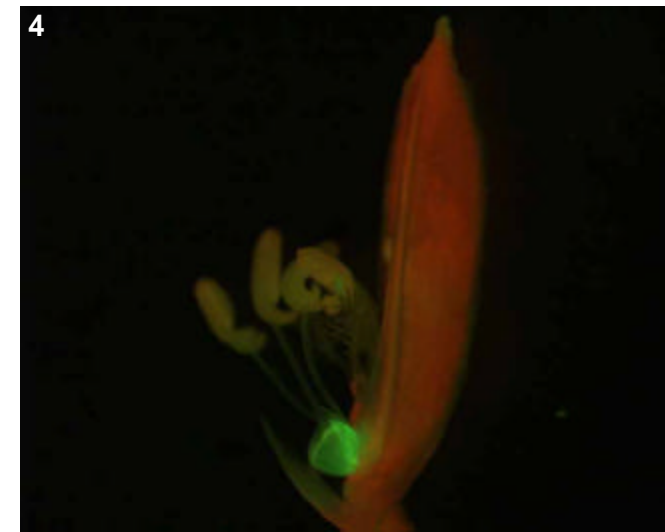
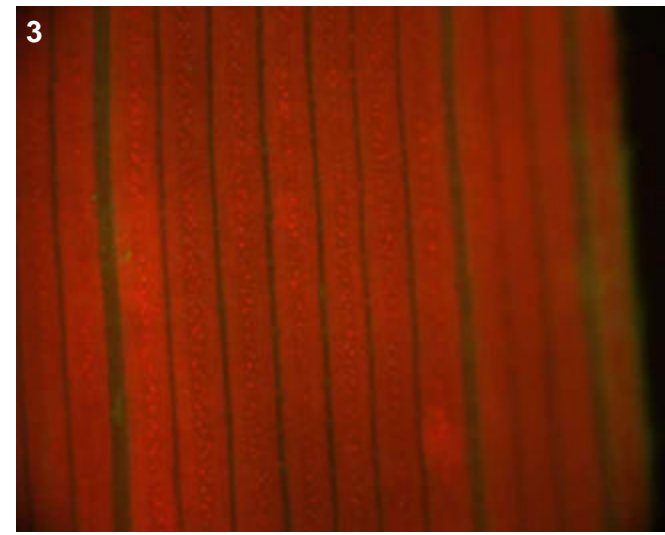
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 9



T0 comments

T1 seed comments

T1 seedling comments

Rather faint root expression.

Genotype: AQY G04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

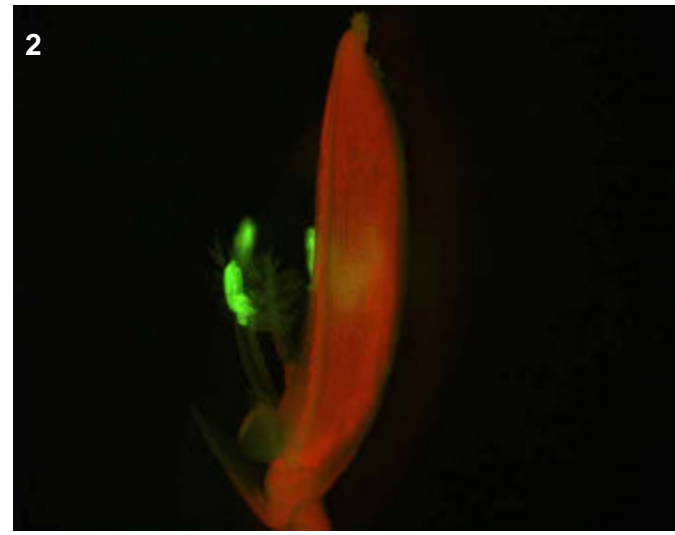
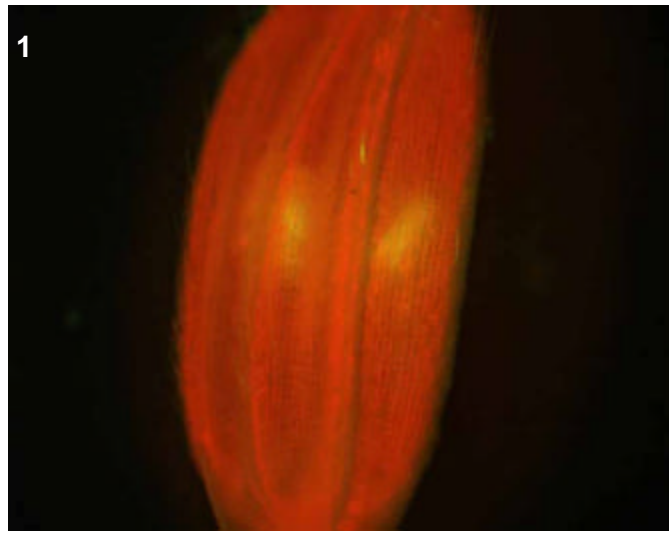
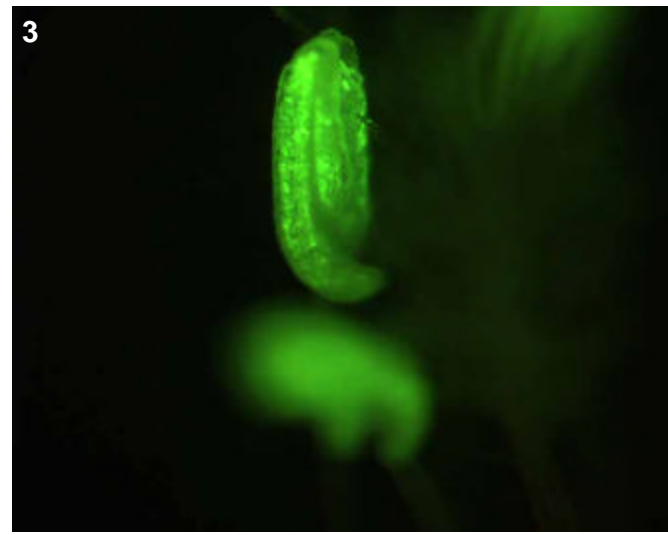
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

anther wall

T1 seed comments

T1 seedling comments

Genotype: AQY H05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

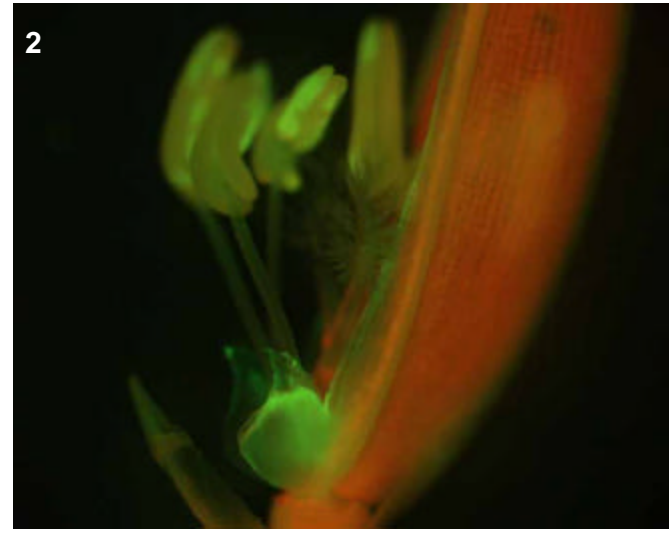
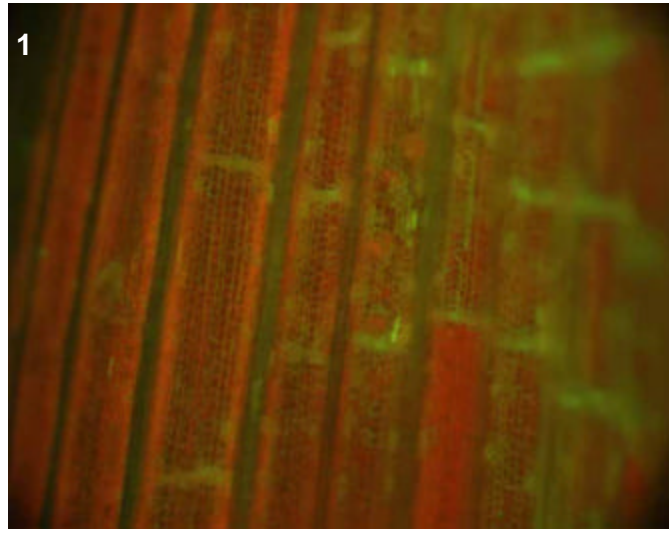
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

No collar, weak sheath vascular. Bright lodicules and floral vascular, maybe pathchy expression in anthers.

T1 seed comments

T1 seedling comments

Genotype: AQY H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

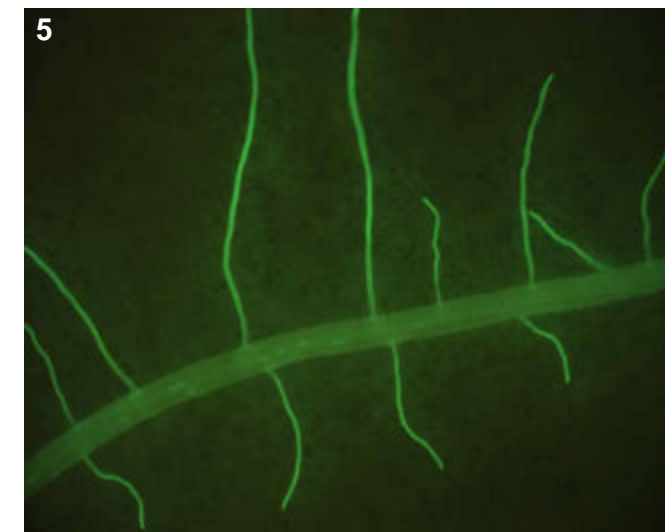
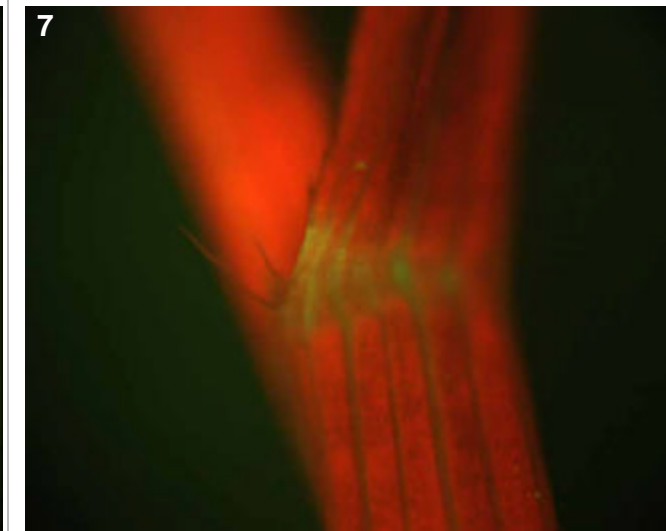
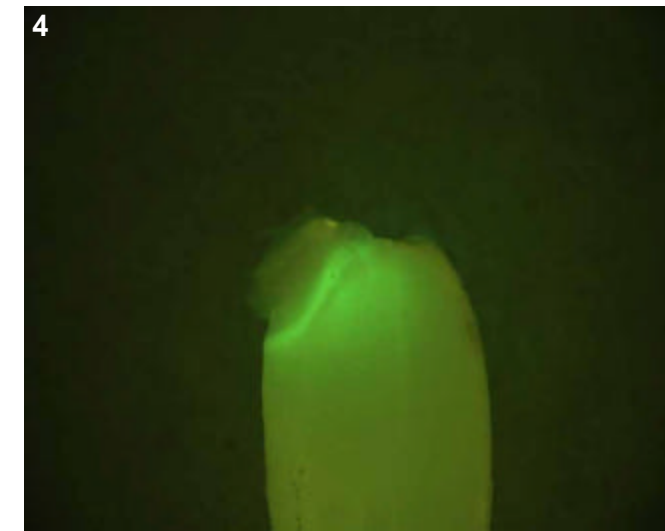
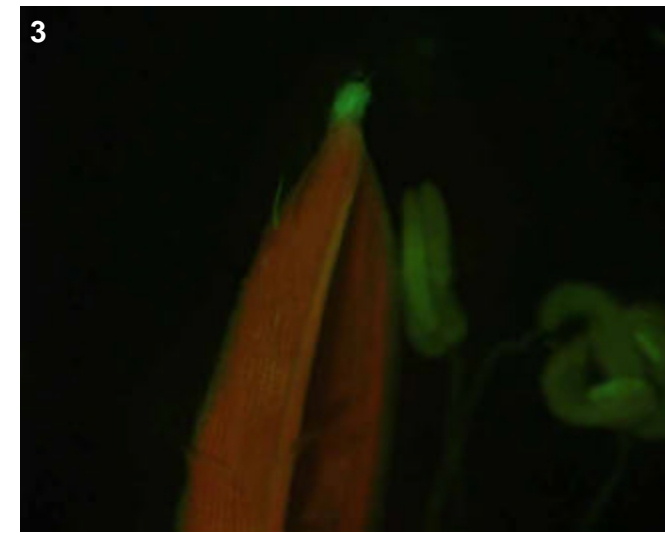
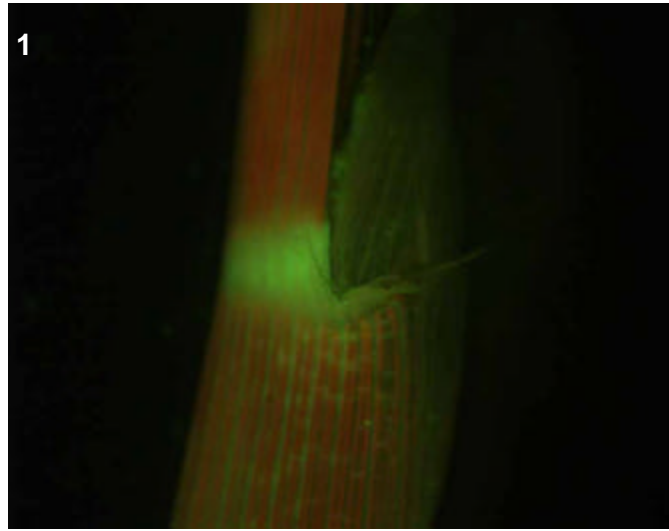
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 12



T0 comments

Bright expression in collar, sheath vascular and the floral tip.

T1 seed comments

3/5 seeds showed this pattern

T1 seedling comments

Only faint expression in collar, note the especially bright expression in tips of roots (pic 6). Perhaps epidermal?

Genotype: AQZ A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

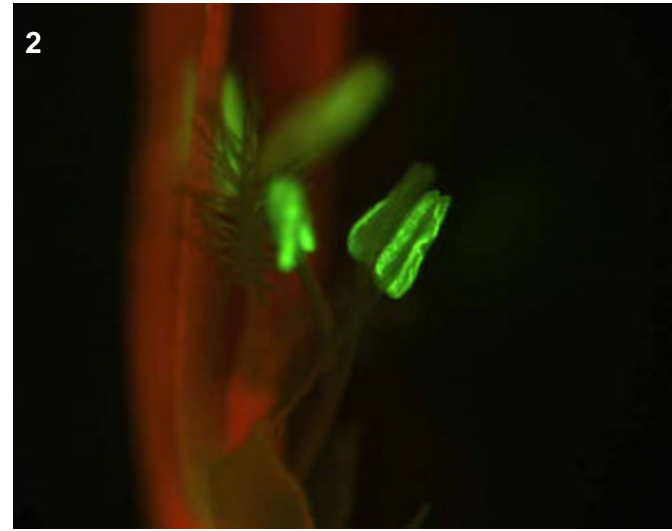
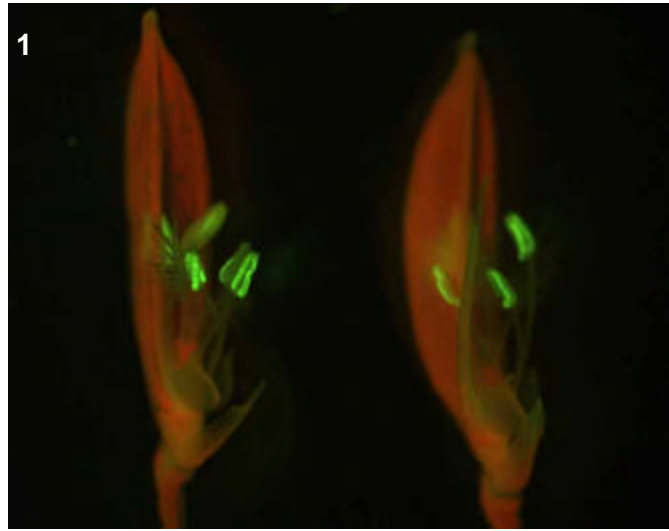
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

anther wall

T1 seed comments

T1 seedling comments

Genotype: AQZ A02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

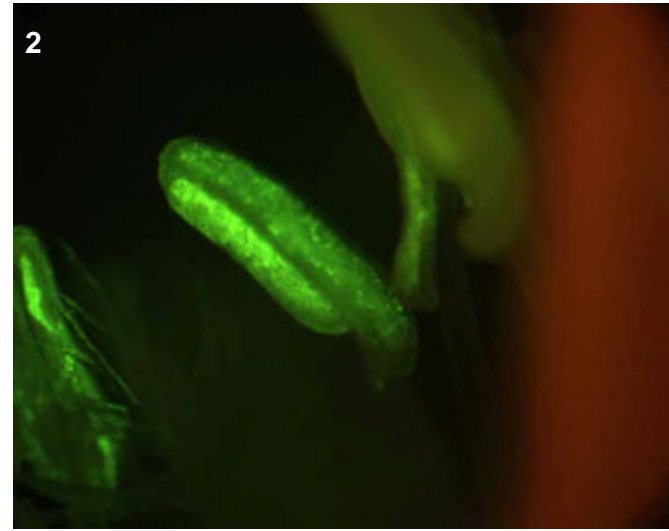
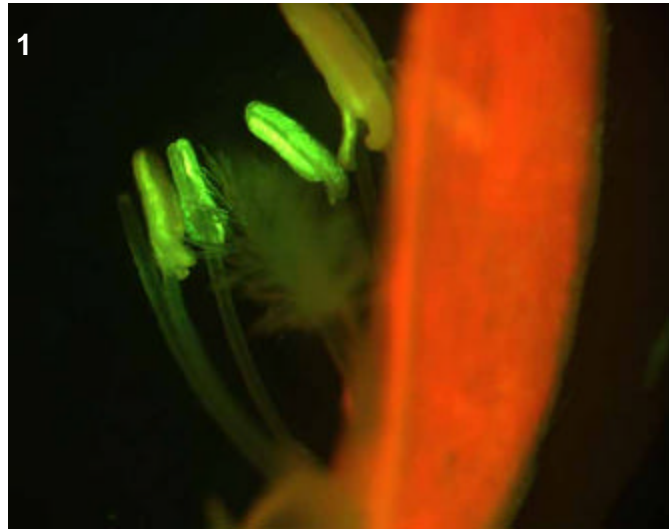
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Anther wall expression. Also expression in the vascular of leaf and sheath but the tissue was too bad for pictures.

T1 seed comments

T1 seedling comments

Genotype: AQZ B05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

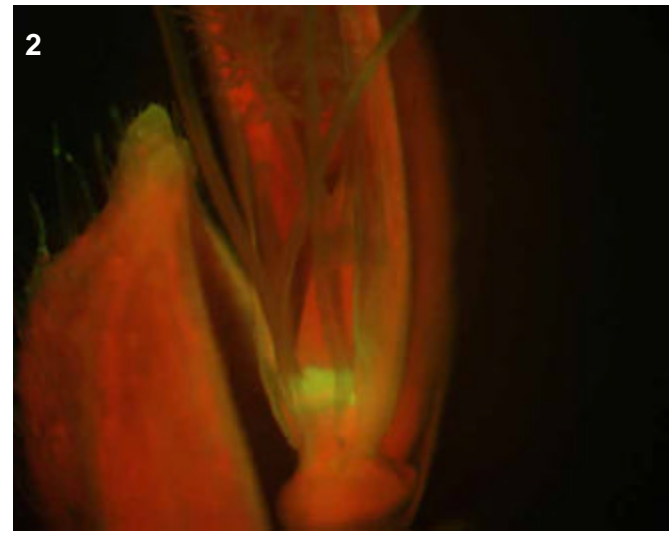
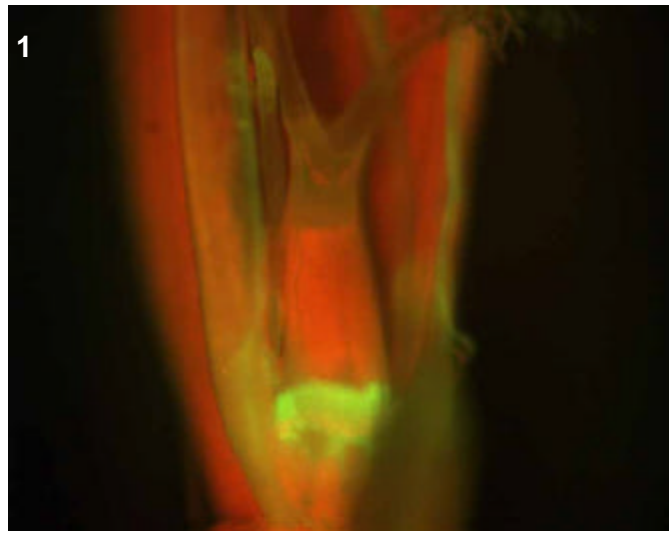
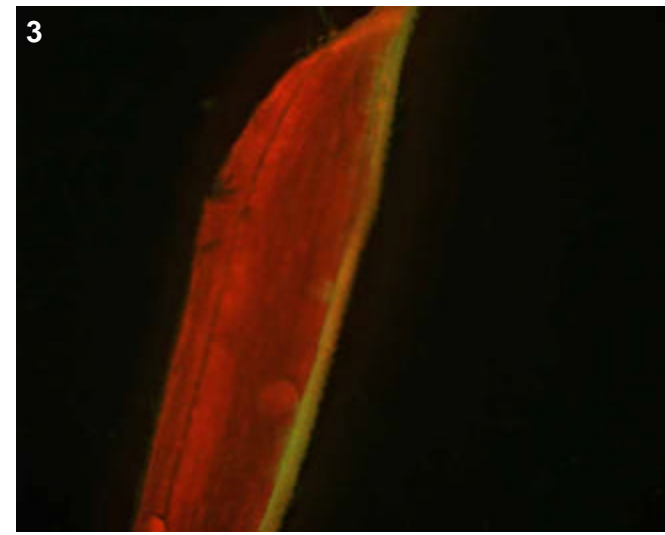
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Faint collar, medium floral vascular, bright carpel base.

T1 seed comments

T1 seedling comments

Genotype: AQZ C07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

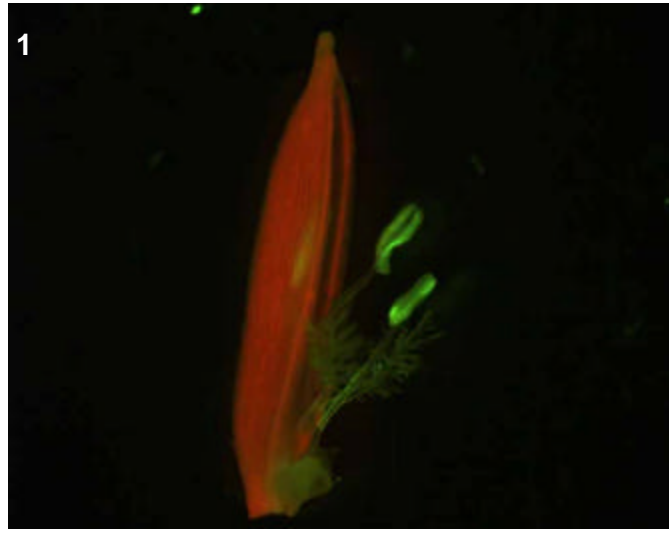
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

dwarf plant with anther wall expression.

T1 seed comments

T1 seedling comments

Genotype: AQZ E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

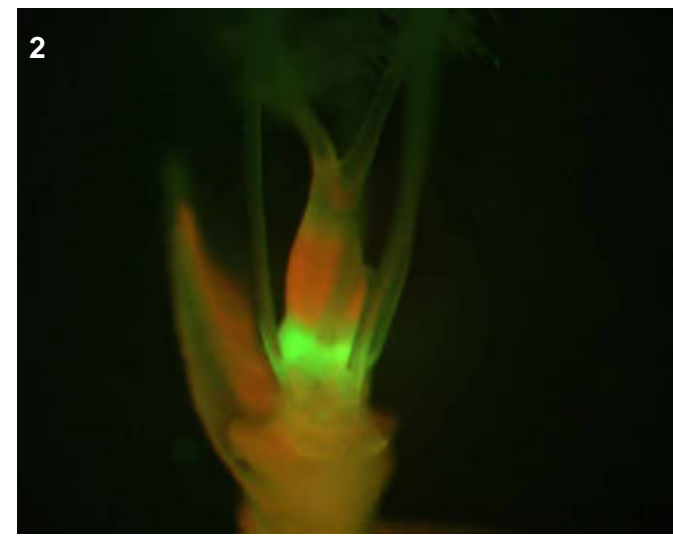
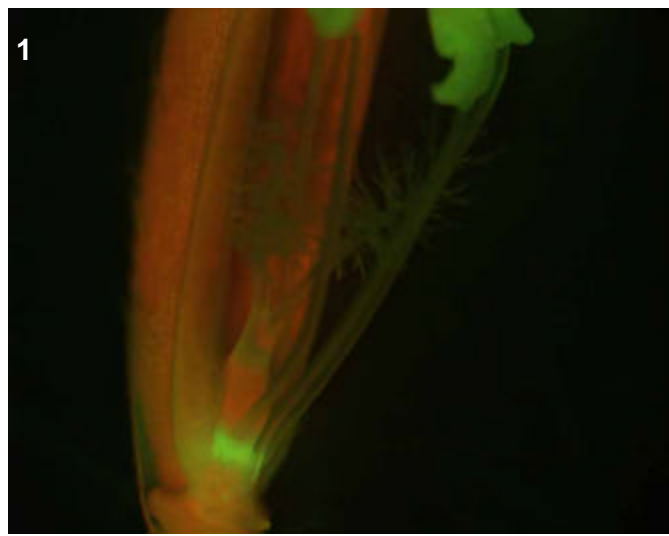
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 4



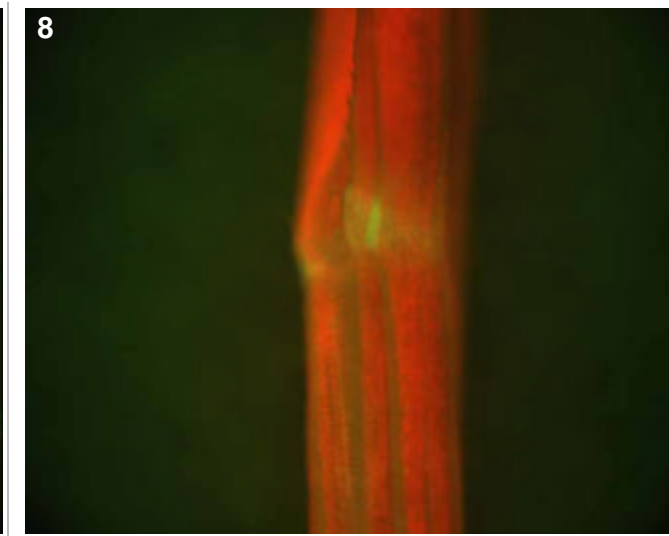
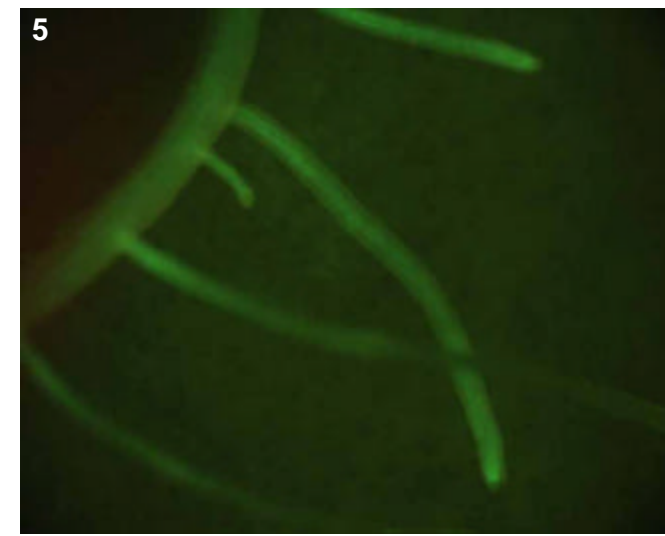
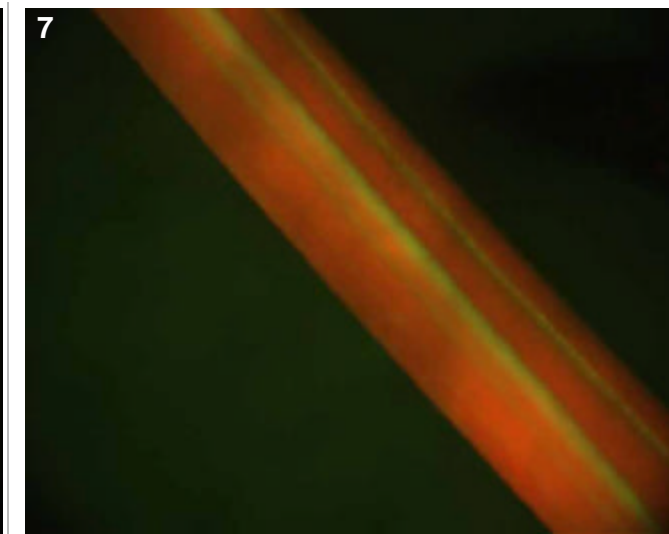
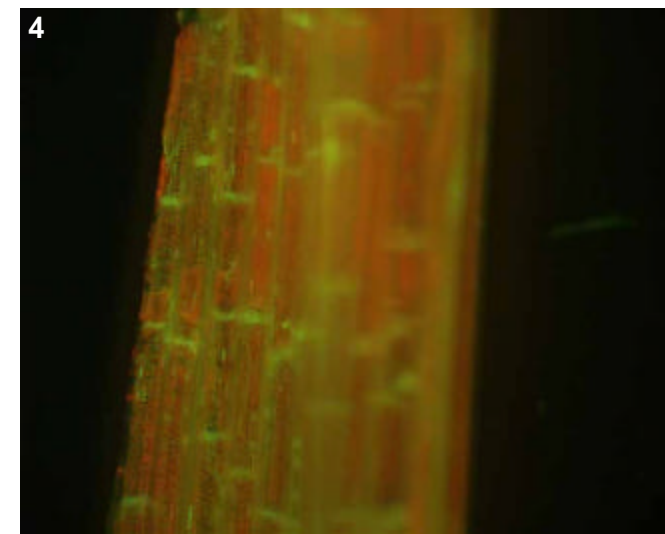
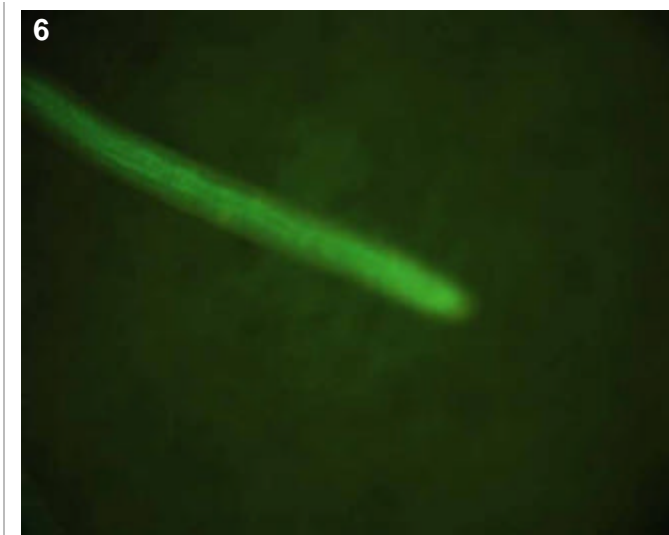
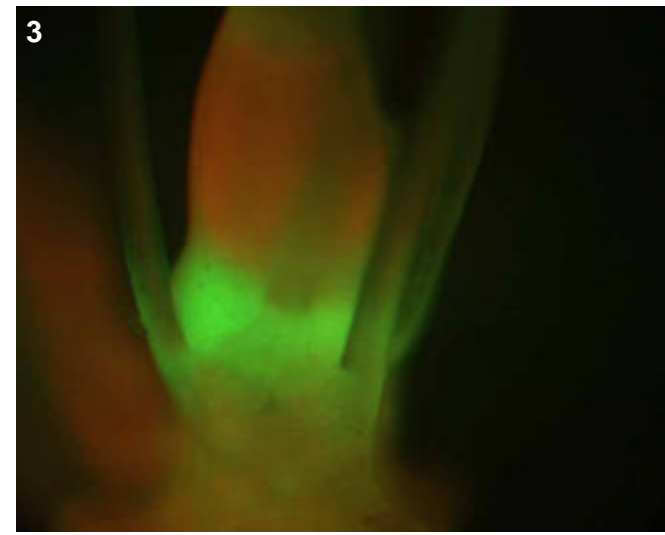
T0 comments

Floral expression appears to be in the base of the carpel.

T1 seed comments

T1 seedling comments

Perhaps general expression in lateral roots, faint expression in crowns.



Genotype: AQZ F11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling: 6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

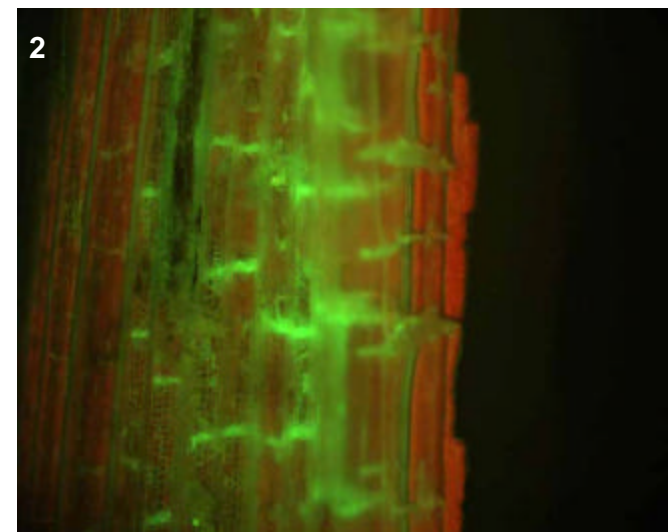
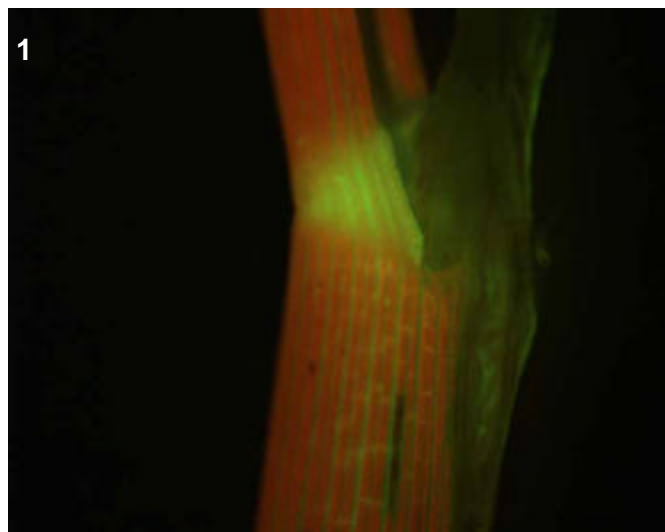
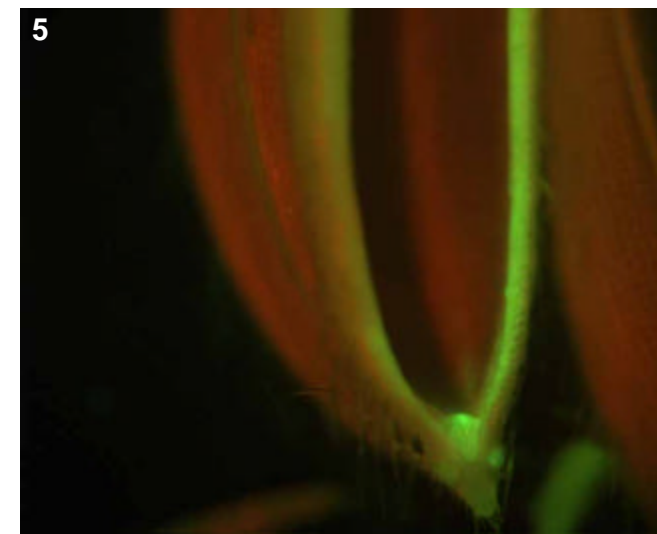
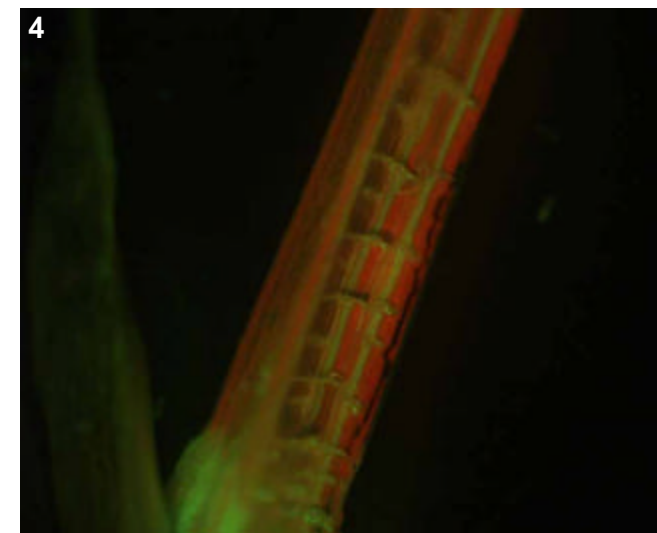
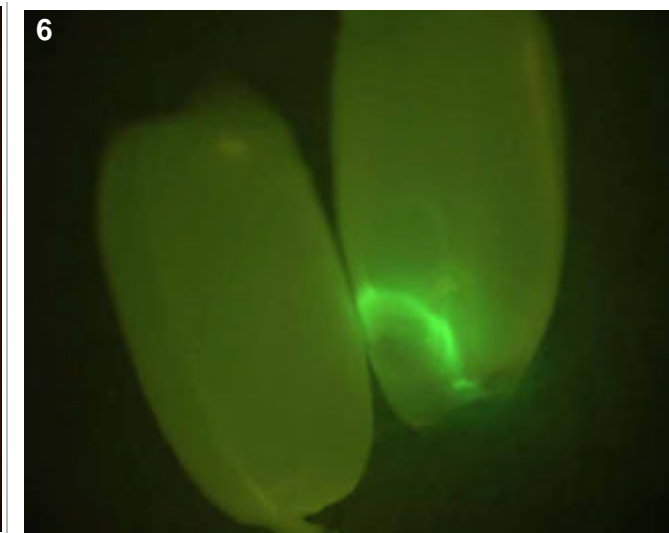
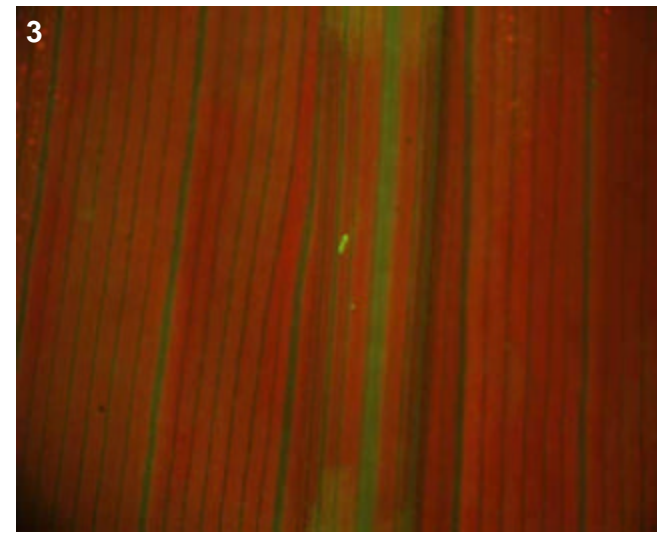
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 plants

Confocal?

Number T2 seed produced: 2



T0 comments

Strong vascular line

T1 seed comments

3/5 showed the pattern in pic 6

T1 seedling comments

Genotype: AQZ G06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

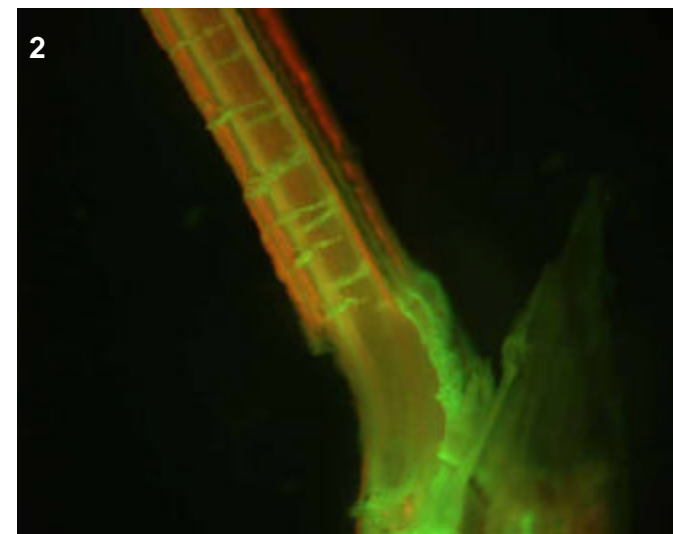
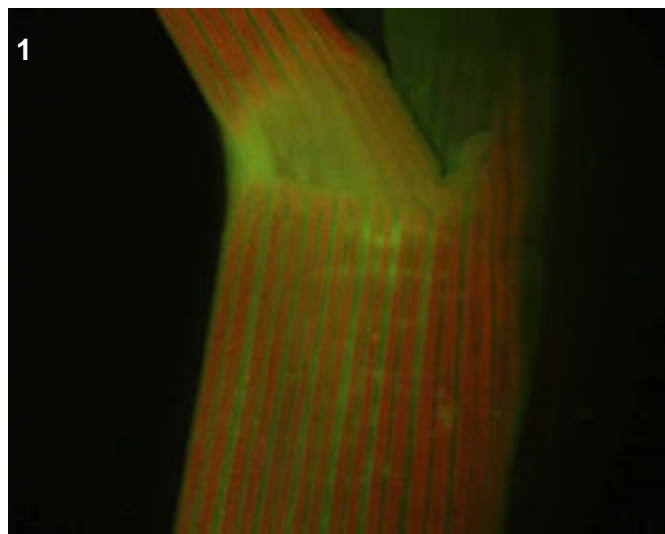
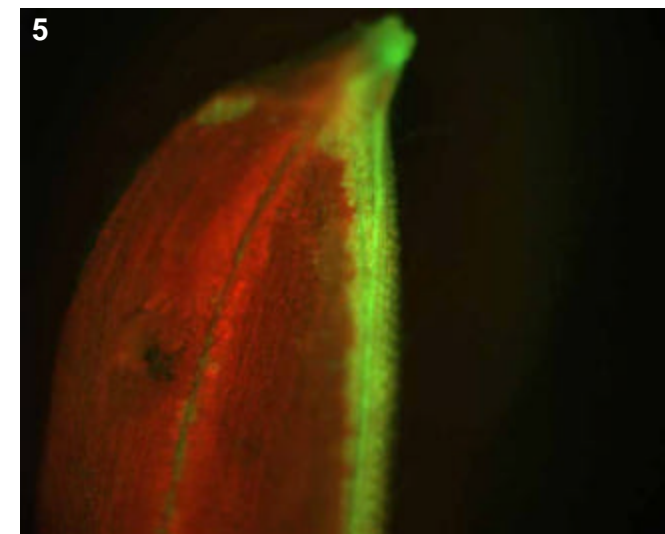
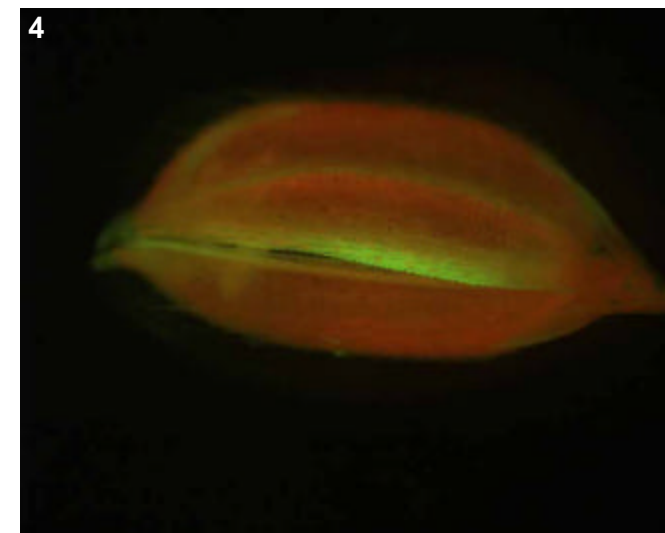
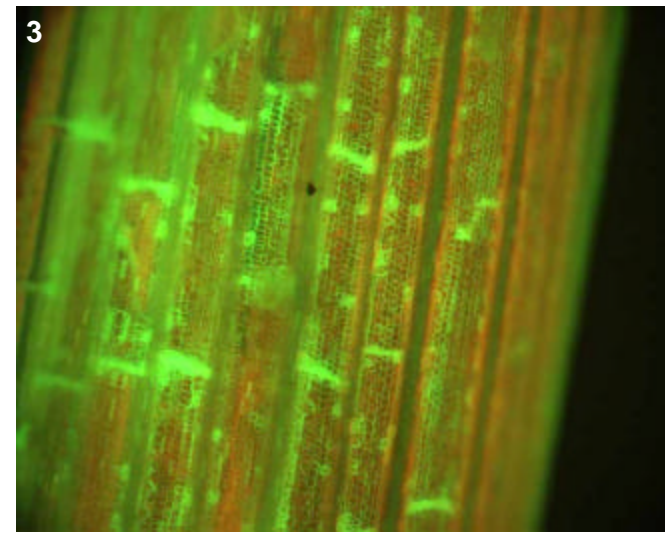
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Strong vascular line.

T1 seed comments

T1 seedling comments

Genotype: ARA B03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

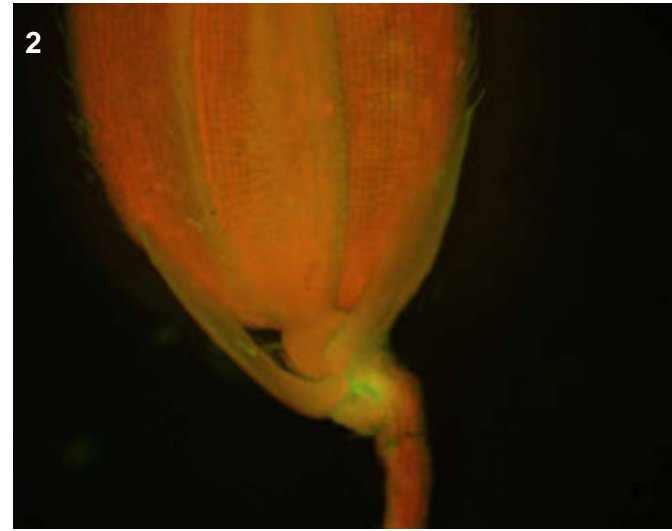
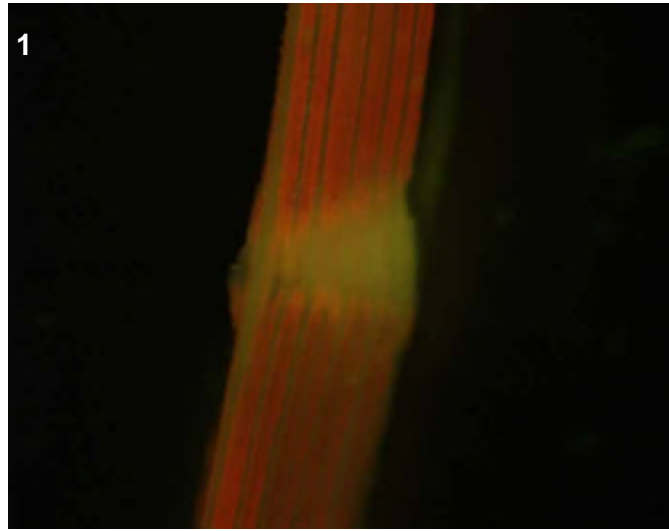
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 2 plants

Confocal?

Number T2 seed produced: 17



T0 comments

Faint collar expression, bright in the rachilla region of flower.

T1 seed comments

T1 seedling comments

Genotype: ARA B09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

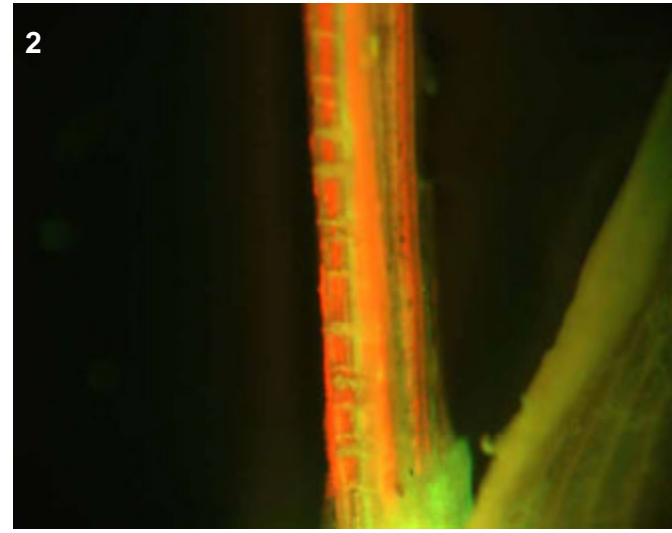
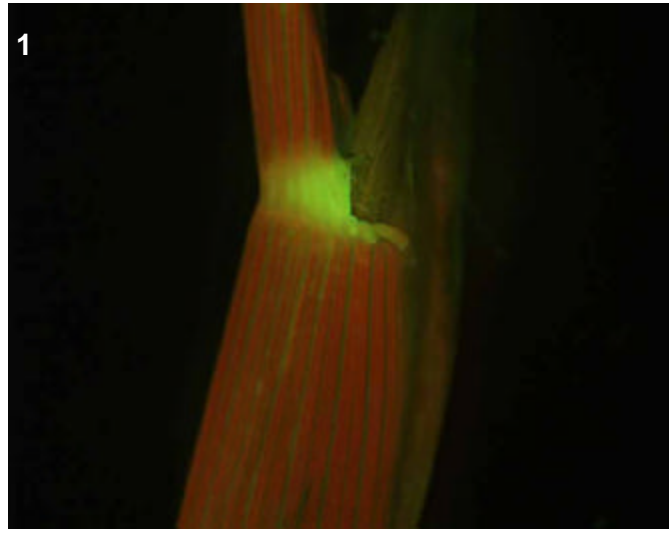
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

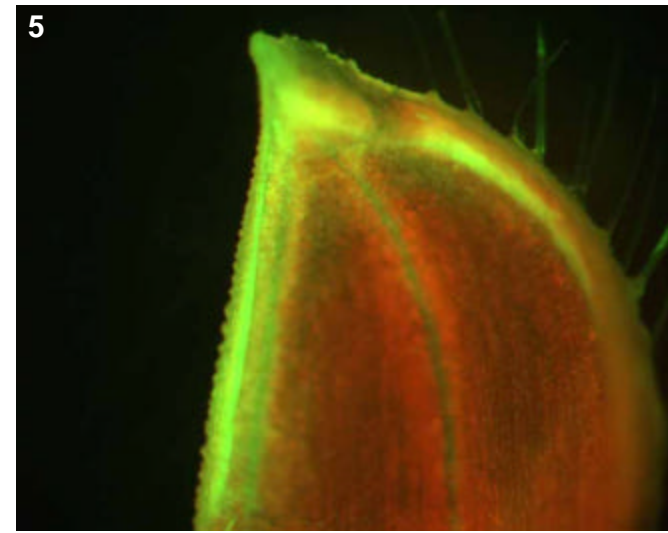
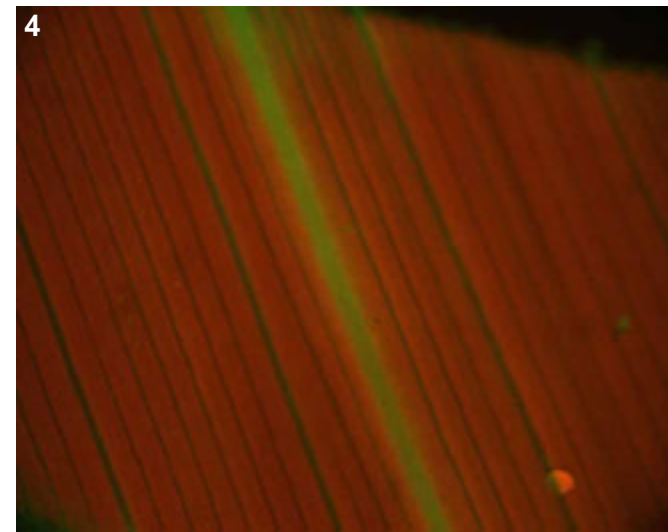
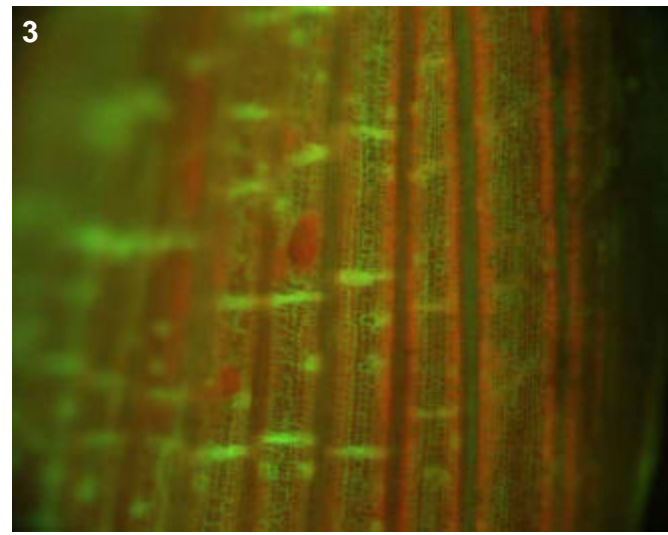


T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments



Genotype: ARA D07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

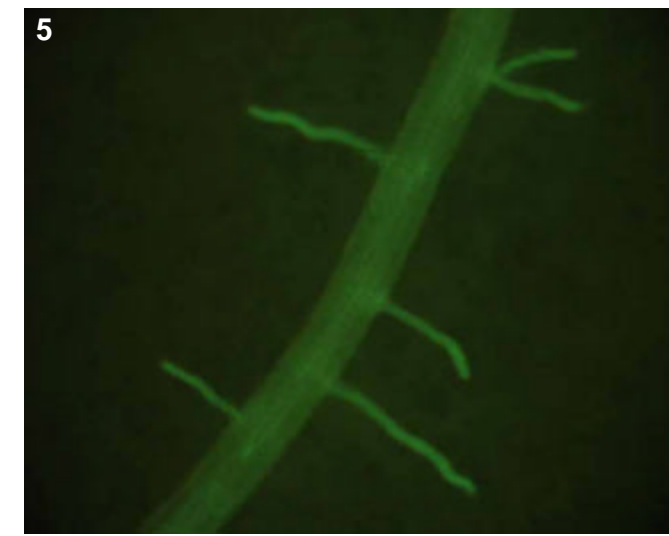
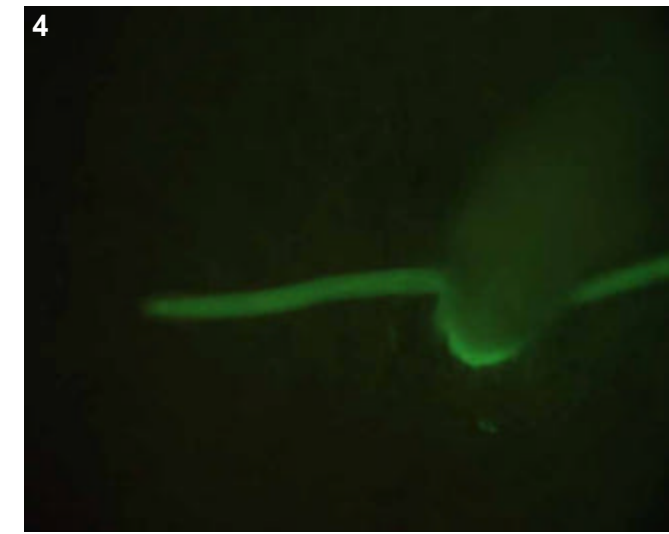
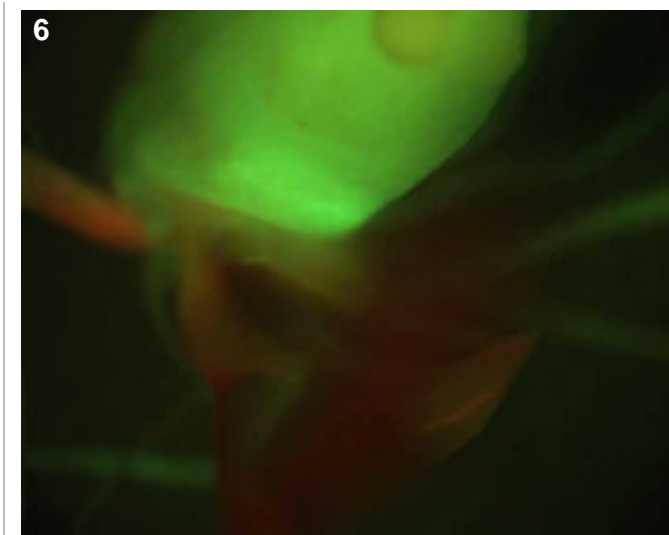
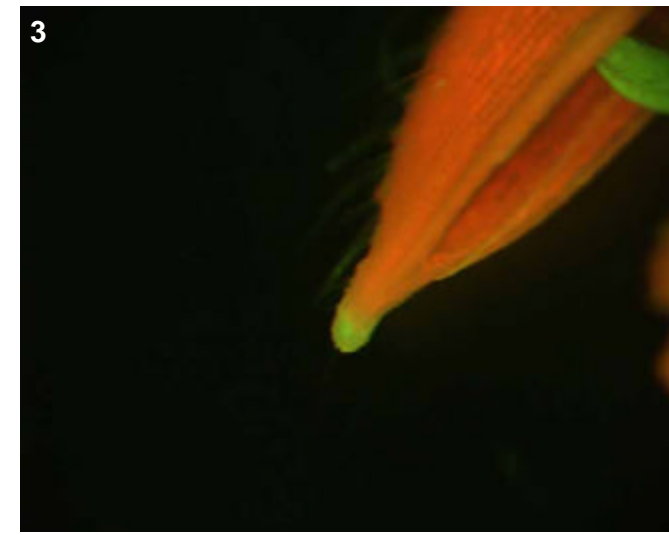
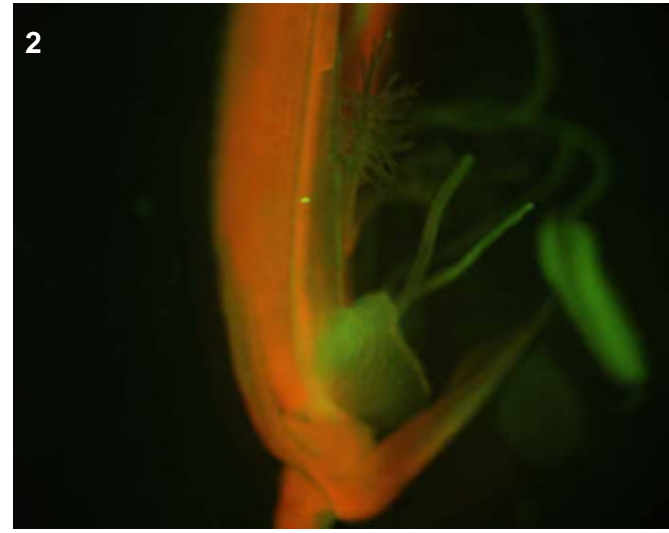
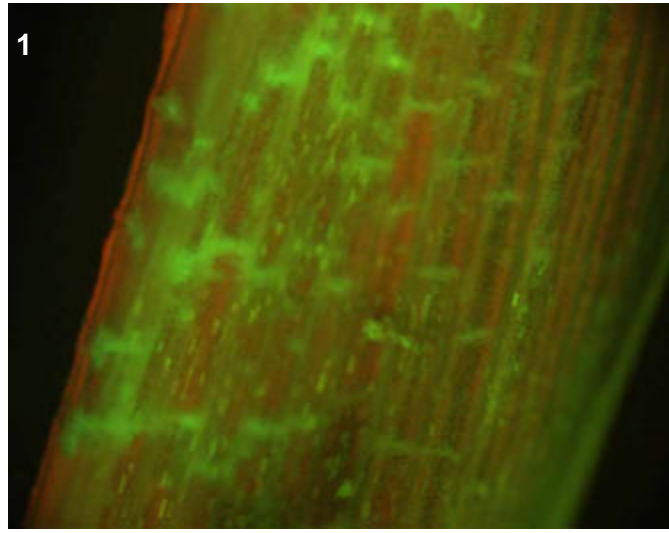
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 10



T0 comments

Faint expression in collar, lodicules and tips of flower. Brighter expression in sheath vascular.

T1 seed comments

T1 seedling comments

Genotype: ARA D11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

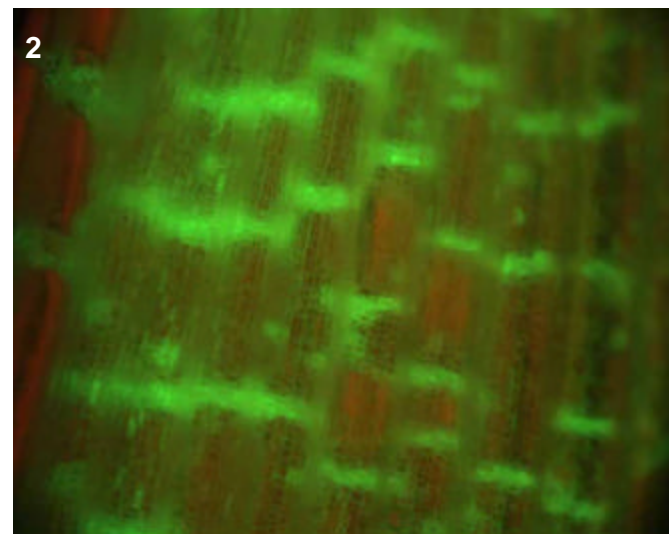
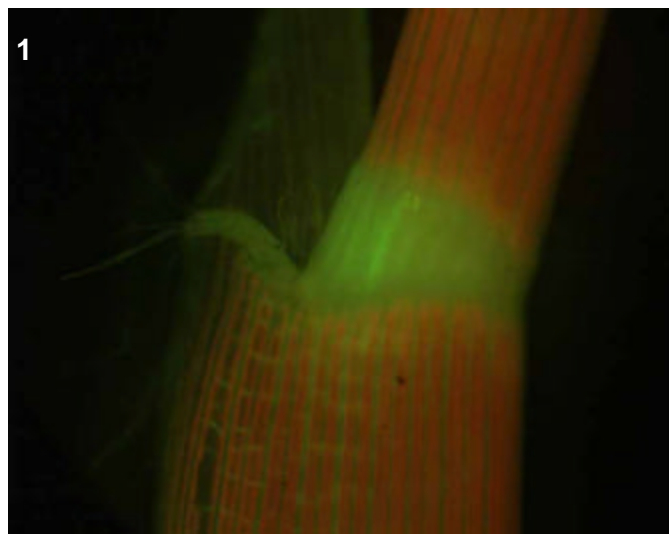
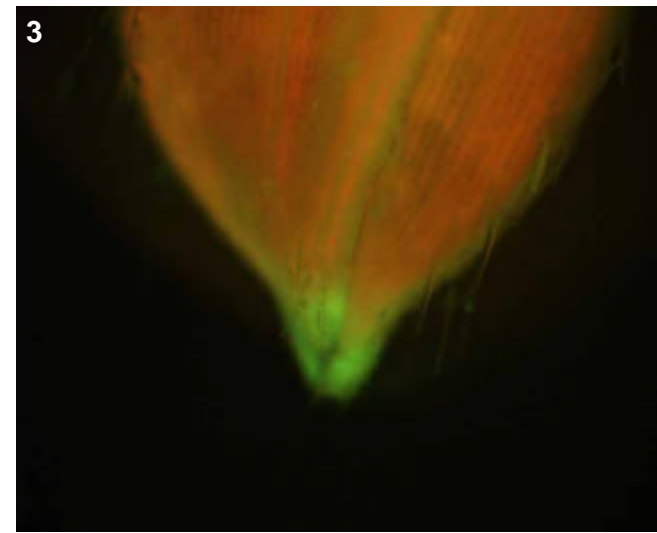
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in tips of lemma/palea.

T1 seed comments

None of the seeds germinated

T1 seedling comments

Genotype: ARA E04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

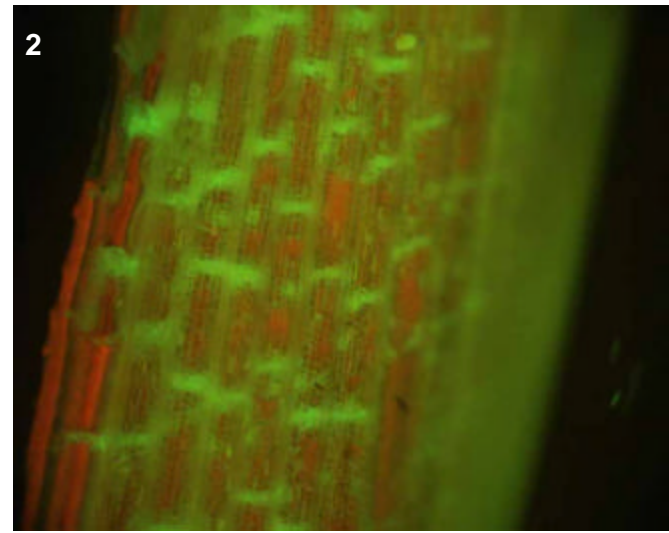
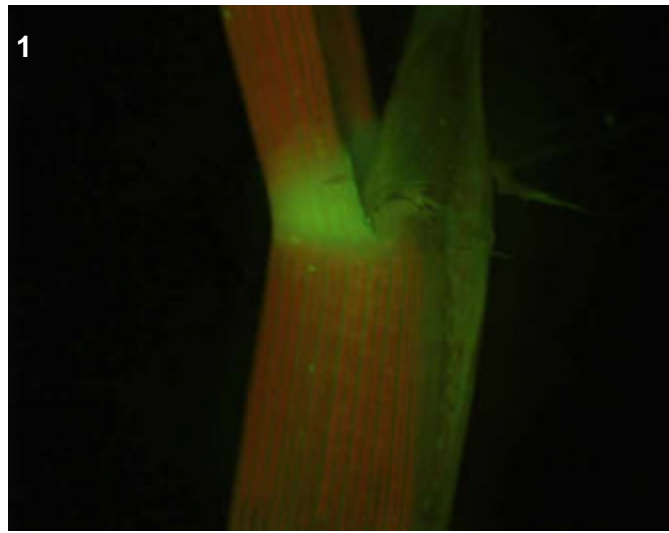
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 17



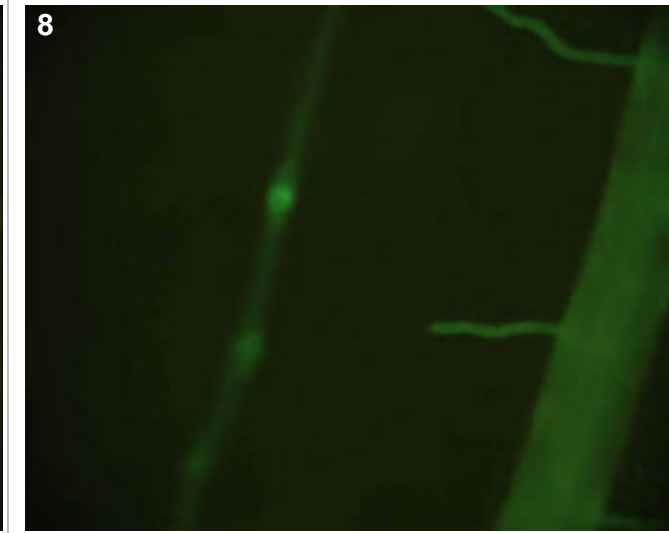
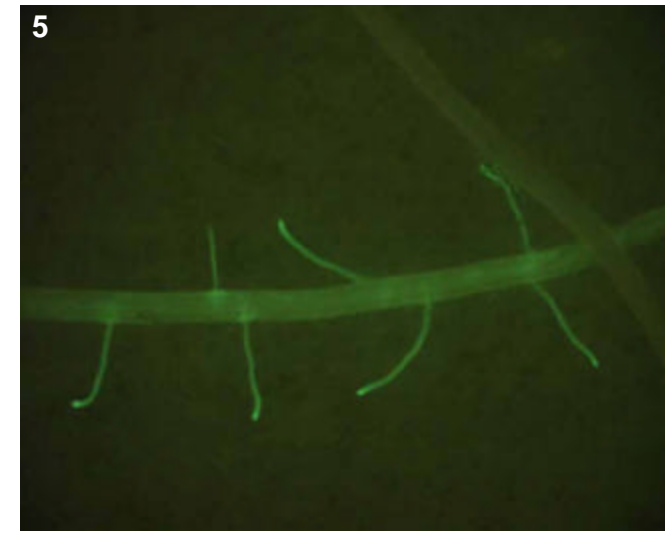
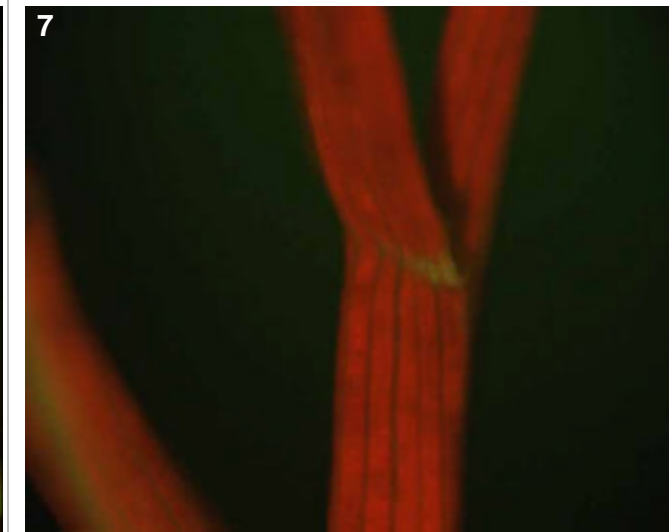
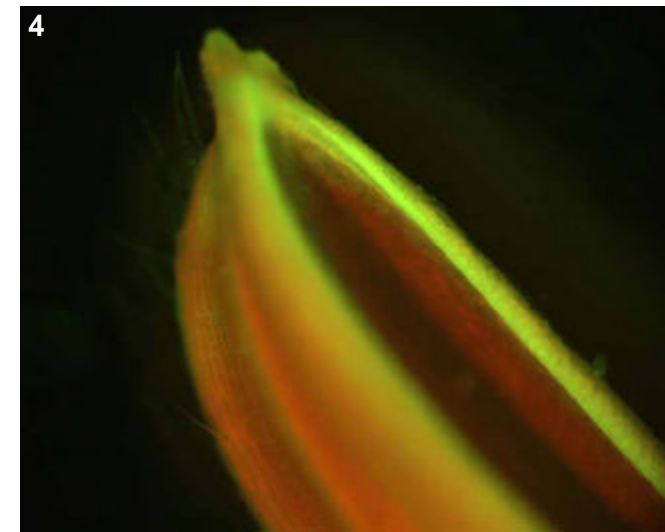
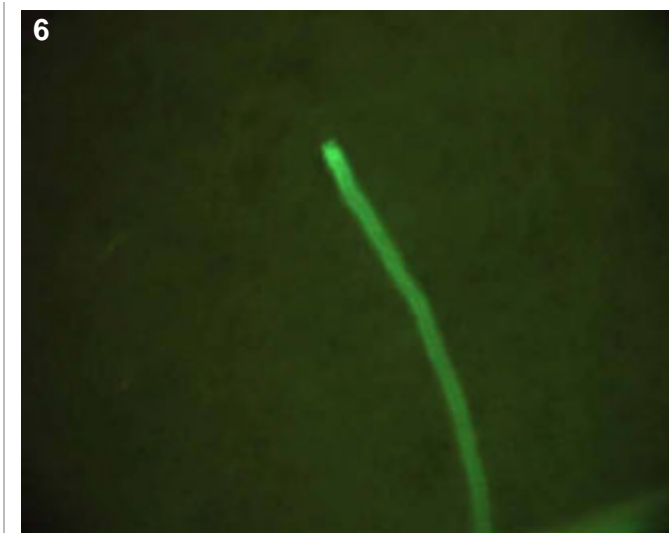
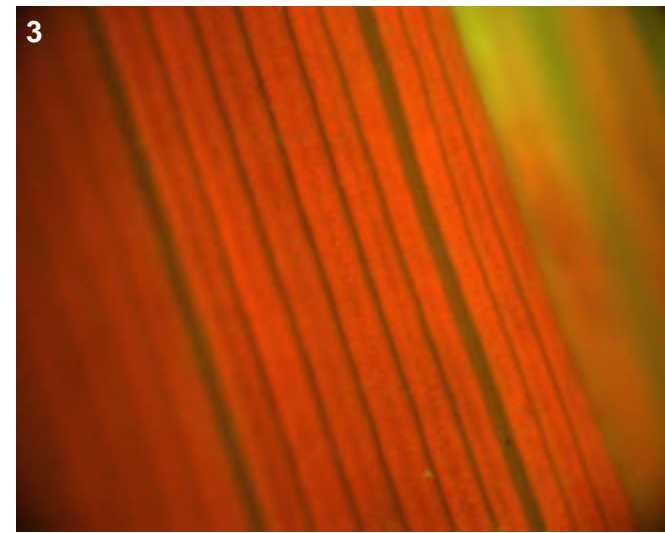
T0 comments

Bright vascular line.

T1 seed comments

T1 seedling comments

Expression in the collar was faint, root expression was bright.



Genotype: ARB E01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

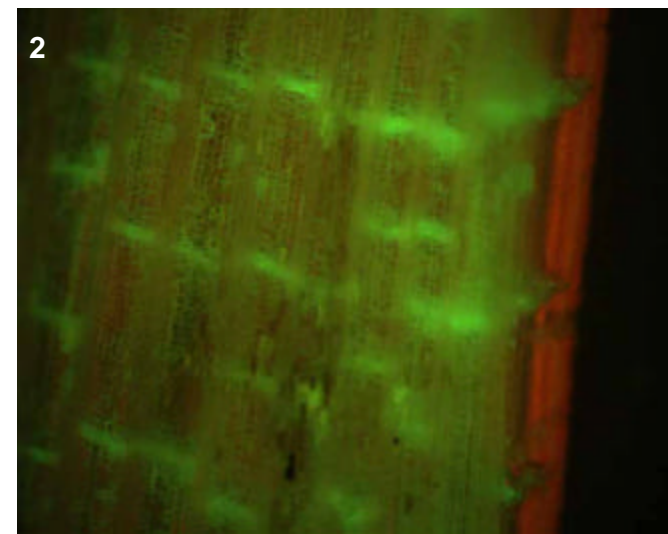
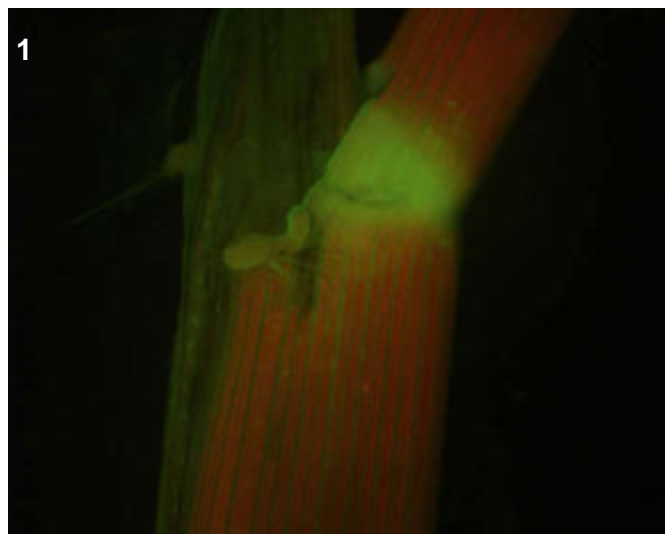
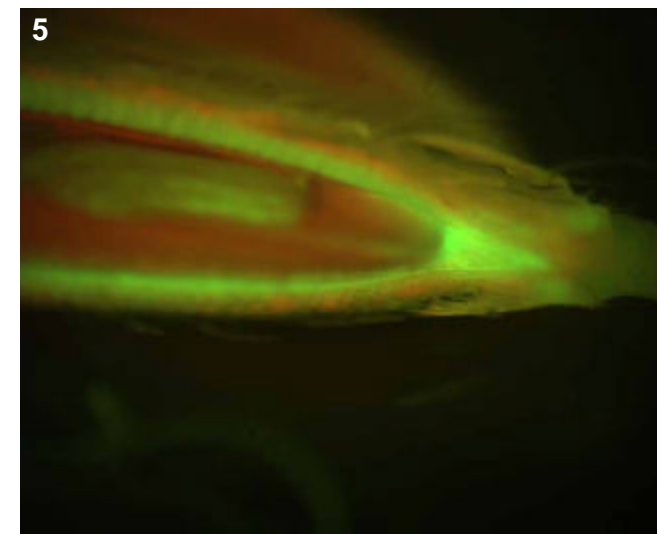
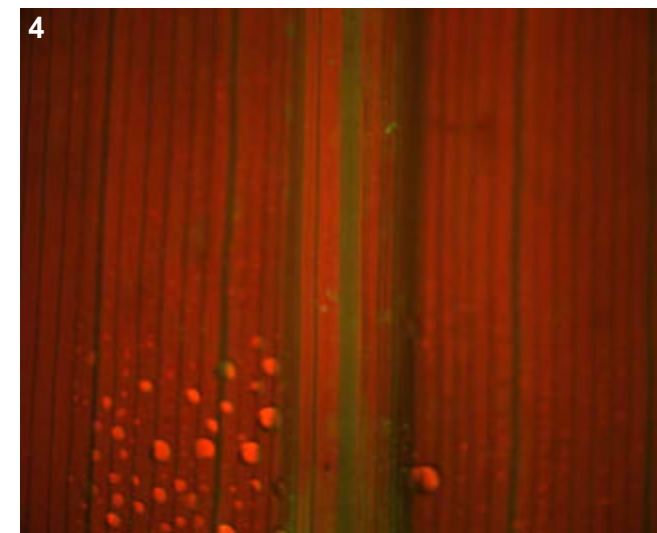
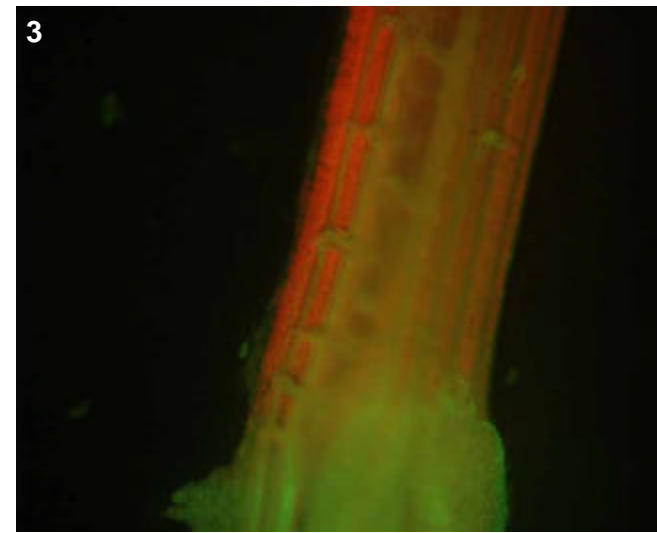
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Genotype: ARB H06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

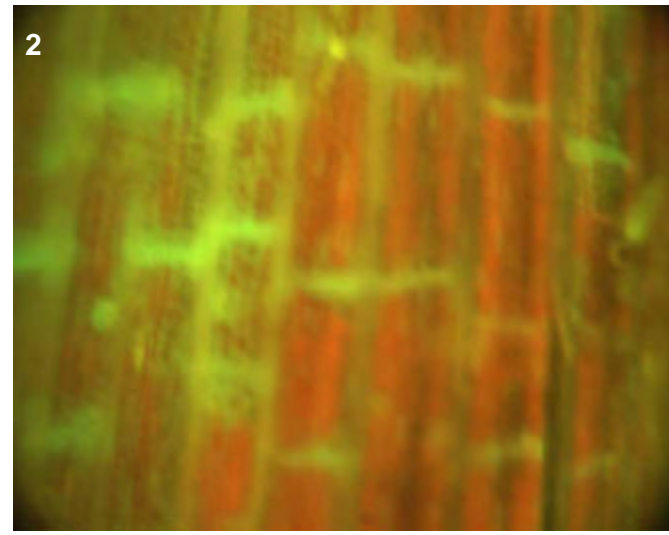
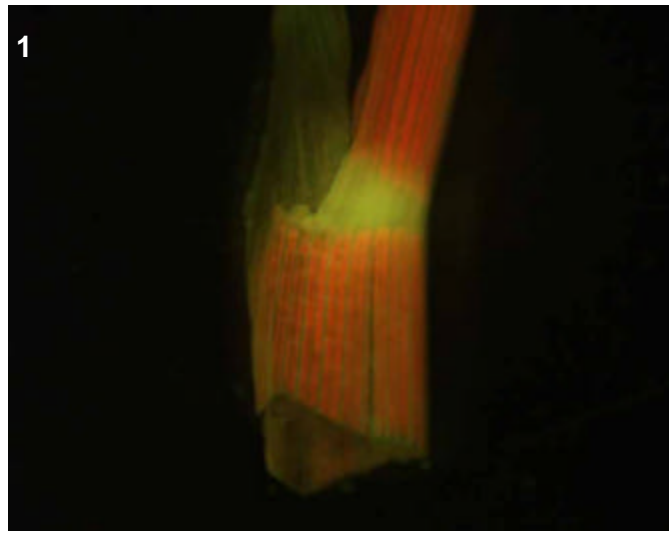
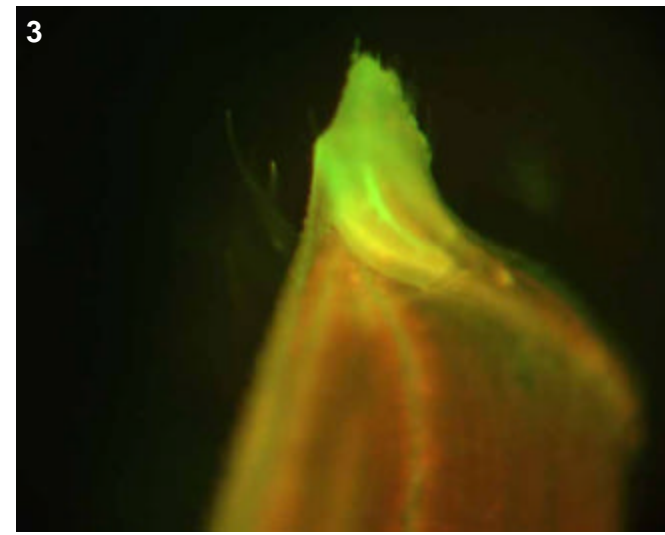
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Note the bright tips of lemma/palea.

T1 seed comments

T1 seedling comments

Genotype: ARB H08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

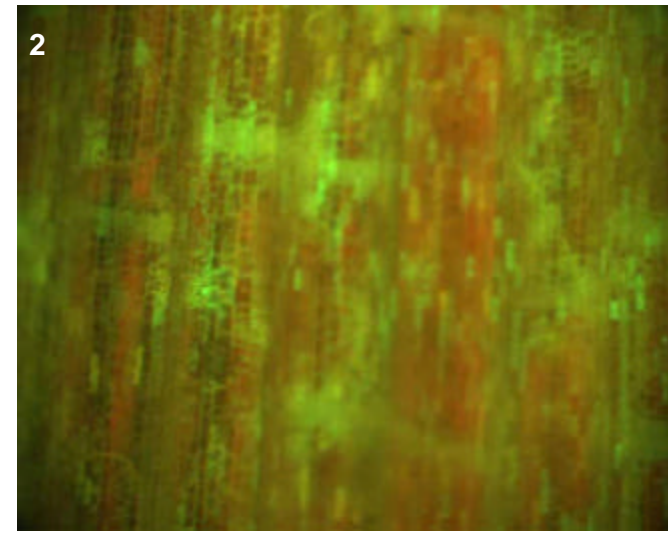
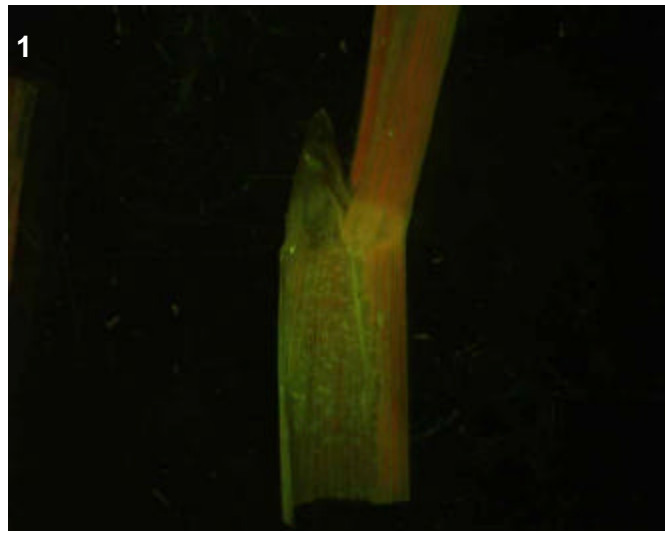
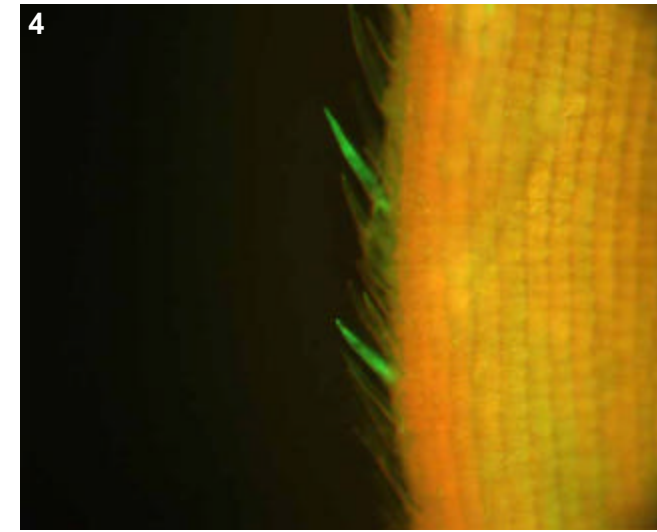
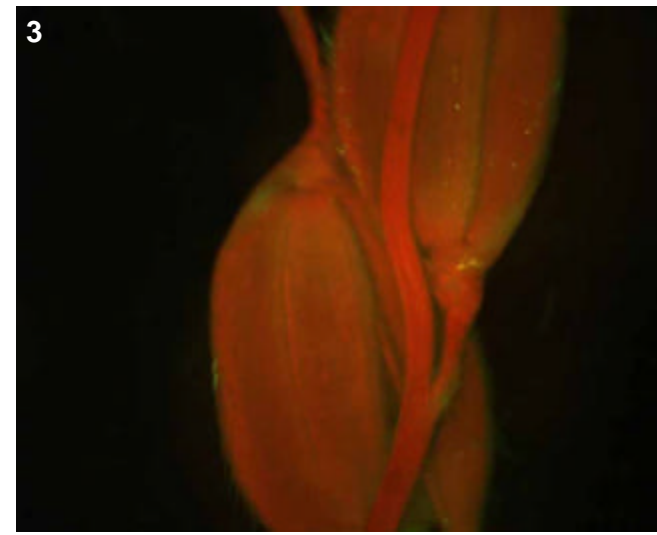
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Scattered expression in floral trichomes.

T1 seed comments

T1 seedling comments

Genotype: ARC A03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

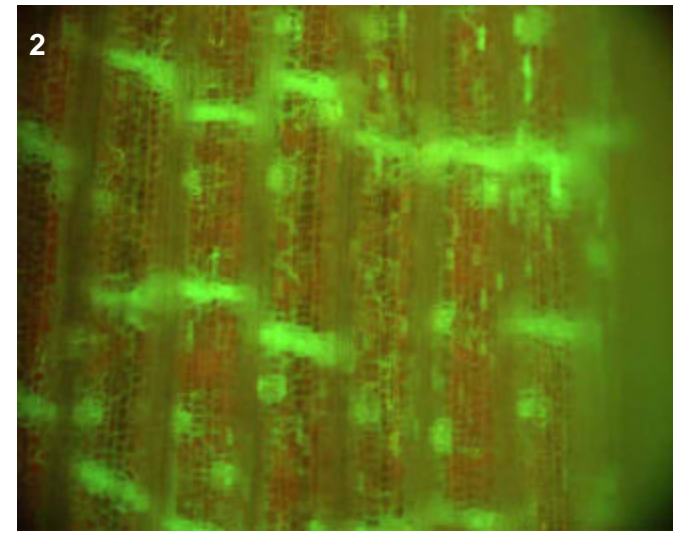
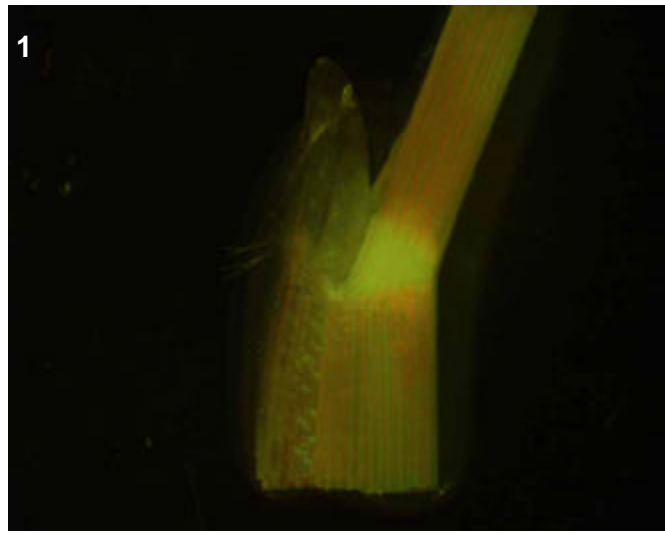
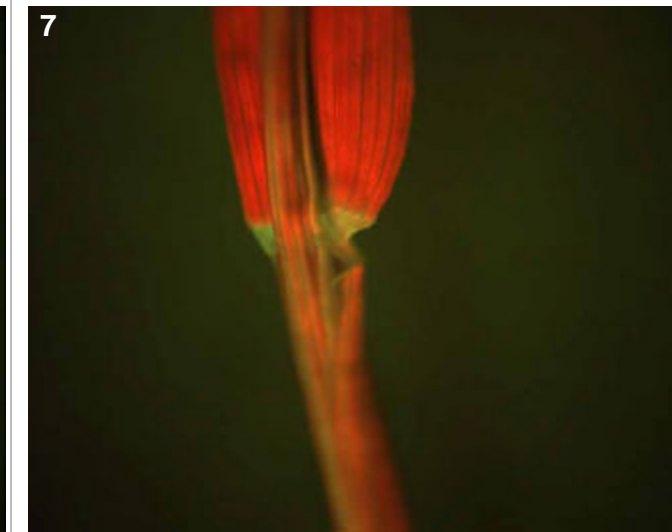
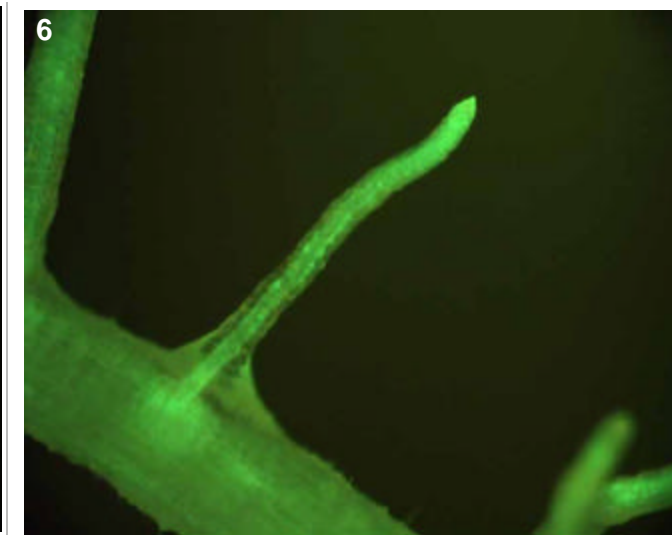
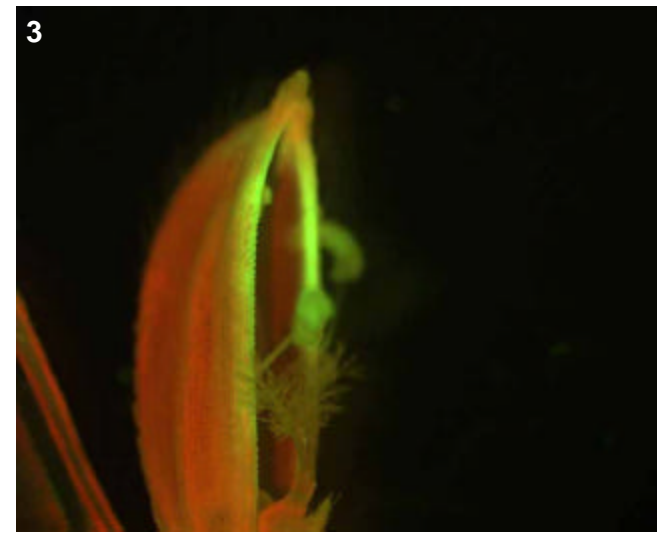
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 17



T0 comments

T1 seed comments
 1/5 had expression

T1 seedling comments
 Bright digesting endosperm (pic 5).

Genotype: ARC A09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling: 6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

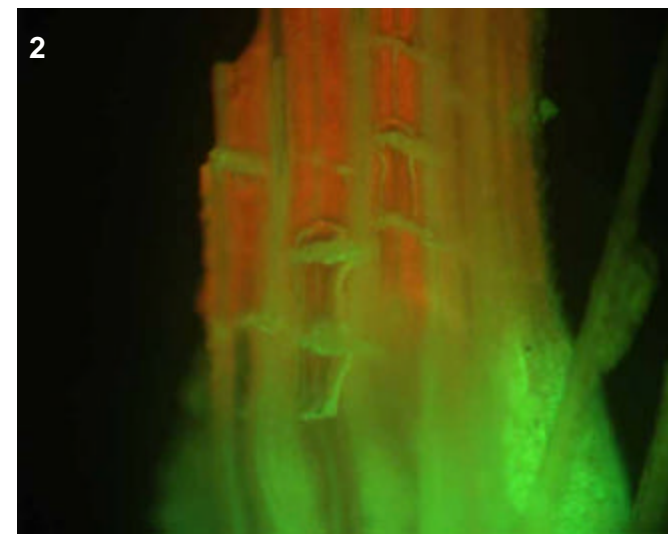
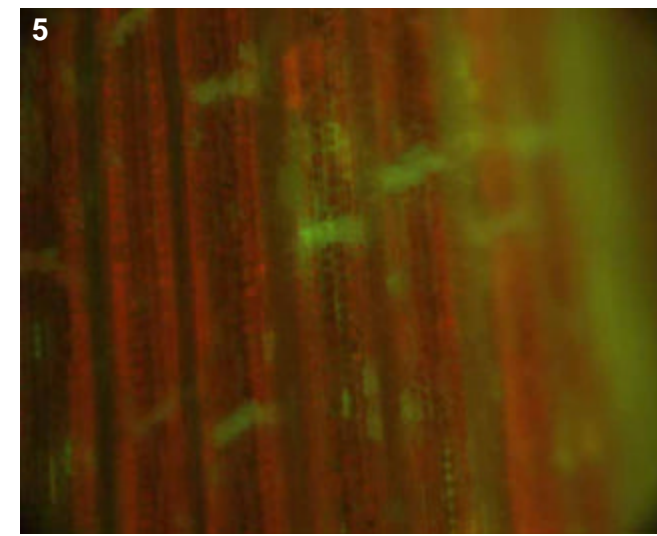
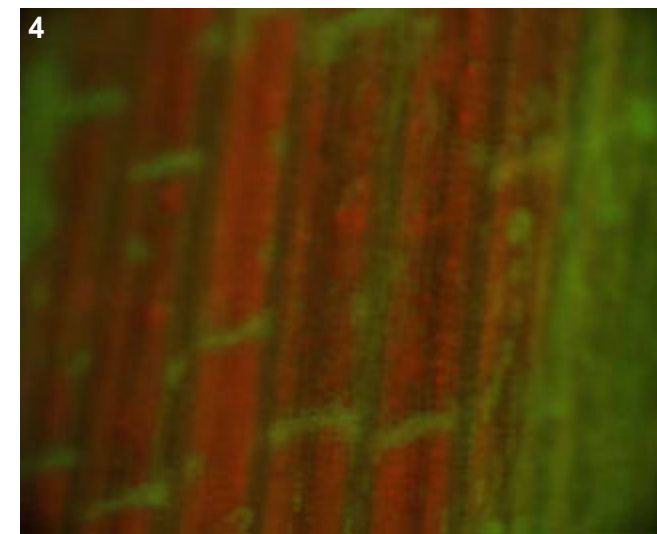
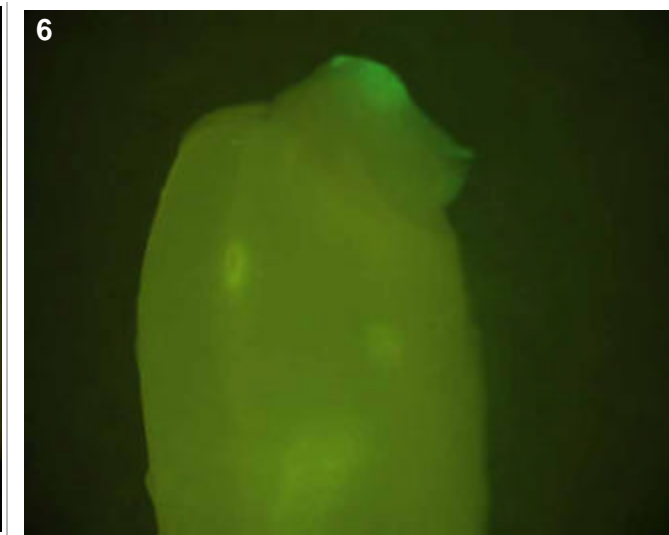
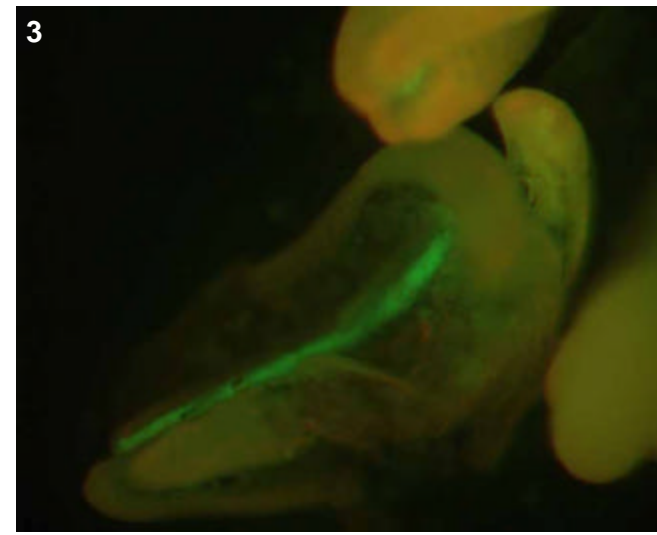
No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 0



T0 comments

Interesting "stripe" in the anthers, where the filament enters (see pic 3). Must be filament vascular expression inside the anther. In older flowers, there may be vascular expression throughout the entire filament.

T1 seed comments

1/5 had expression

T1 seedling comments

Expression quite general throughout the root, and vascular in the shoot. No pictures were taken of the seedlings. The 1 GFP+ seedling died after transfer to the greenhouse.

Genotype: ARC A11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

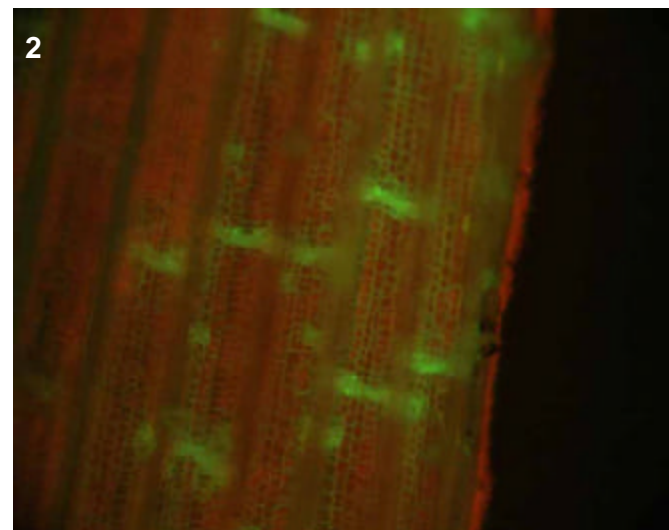
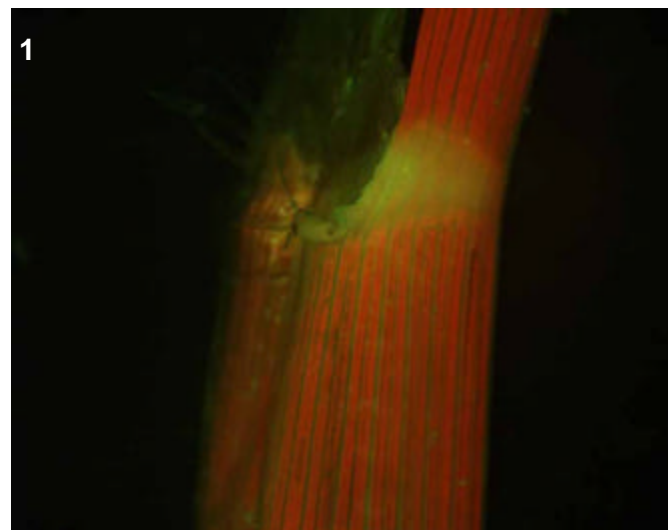
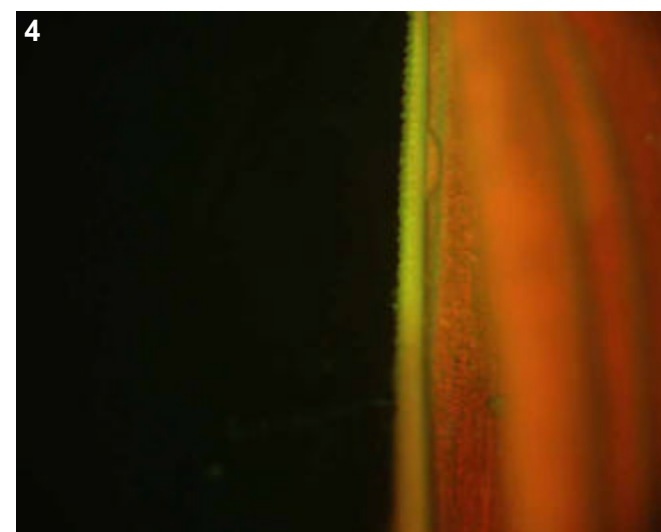
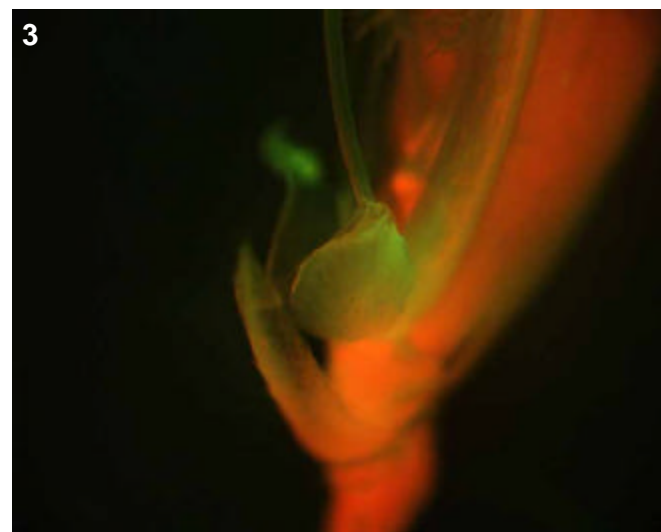
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARC B01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

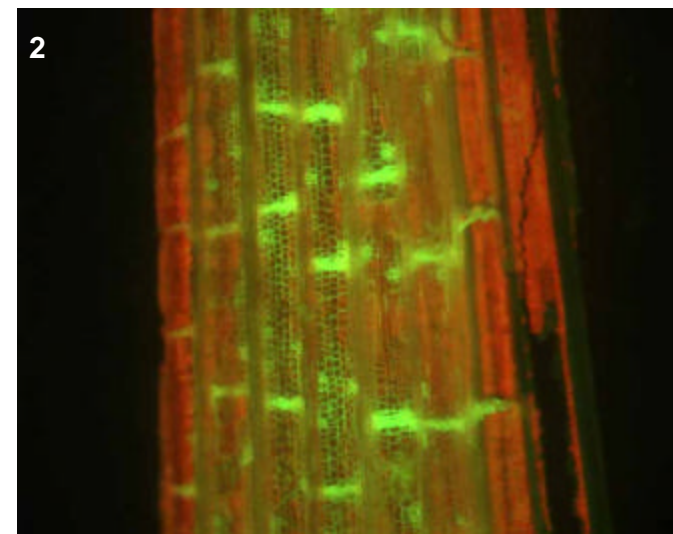
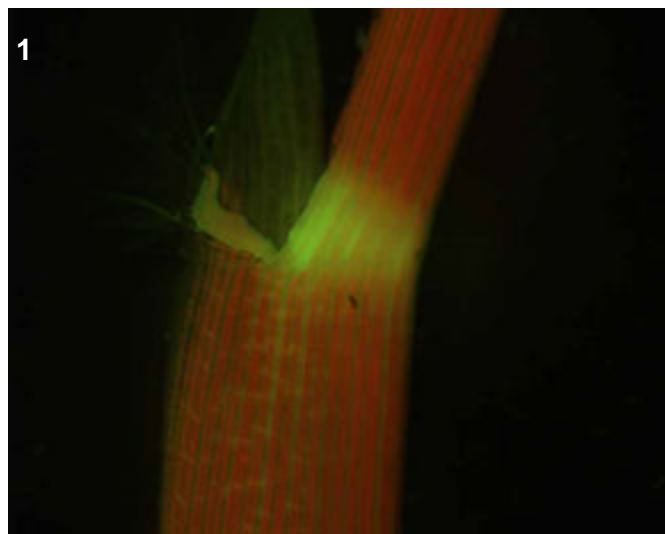
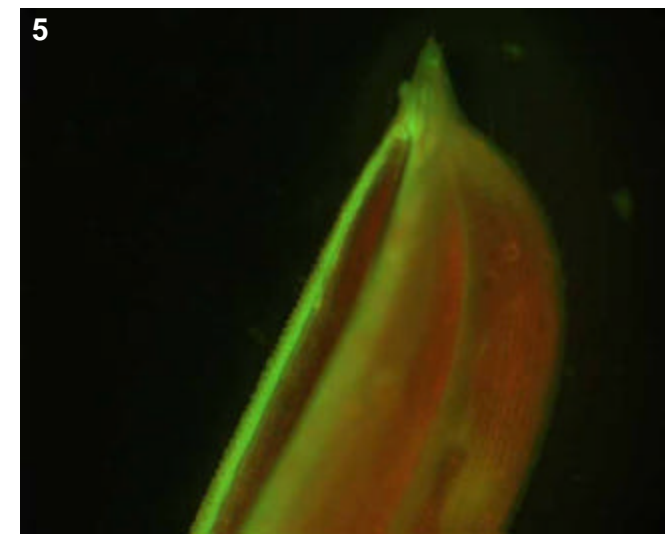
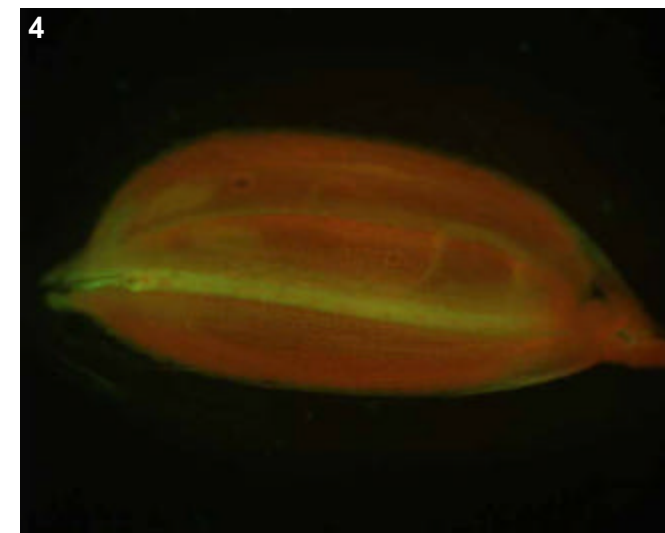
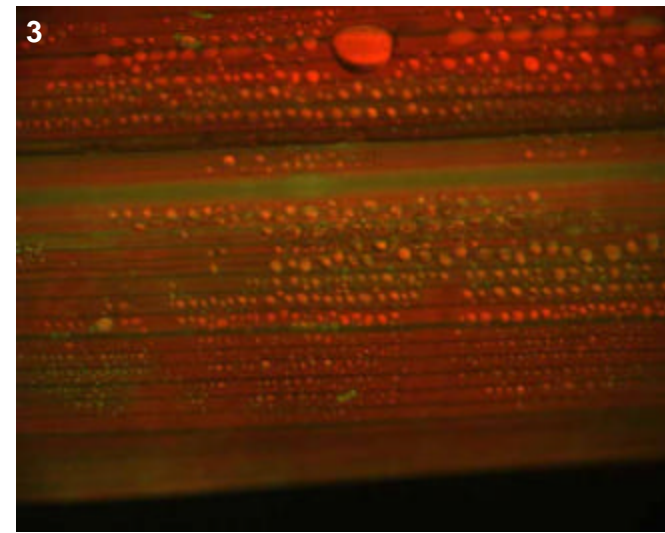
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Seedlings were accidentally discarded.

Genotype: ARC C05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

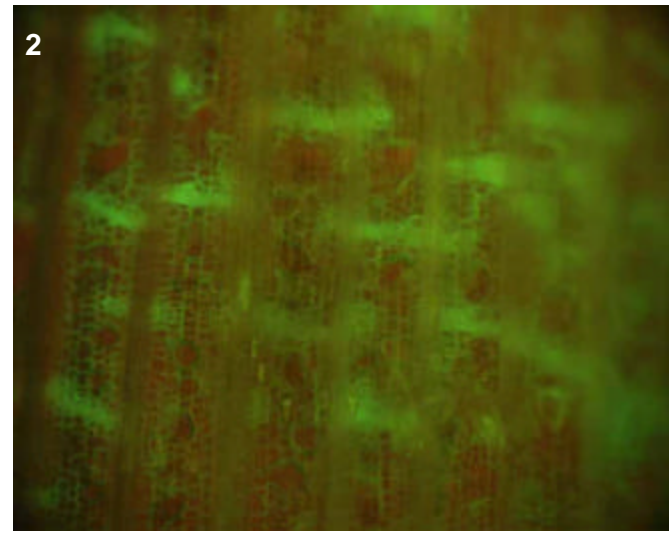
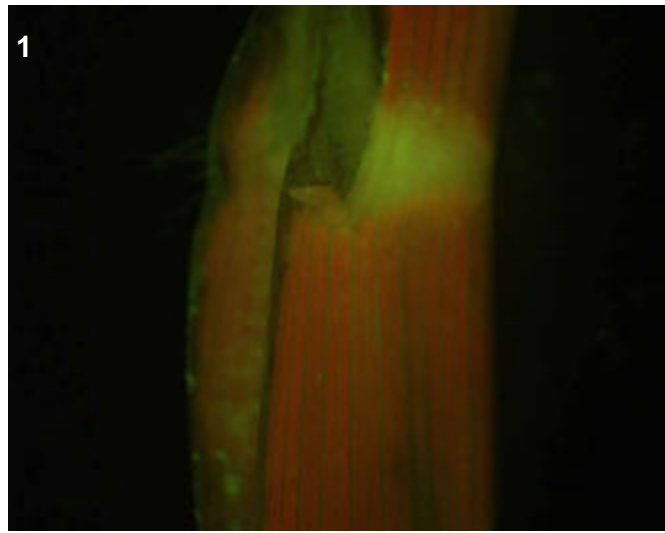
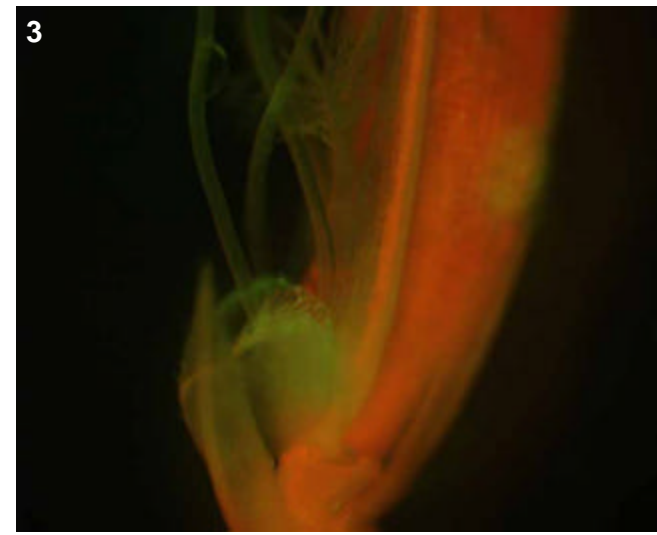
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARC D06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-10
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

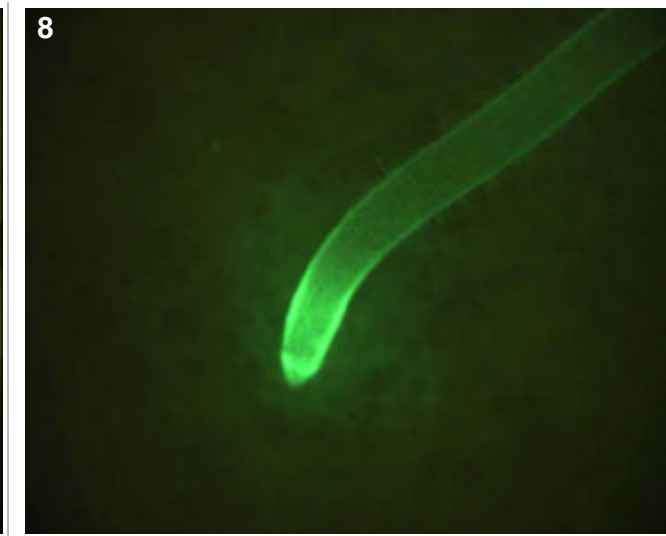
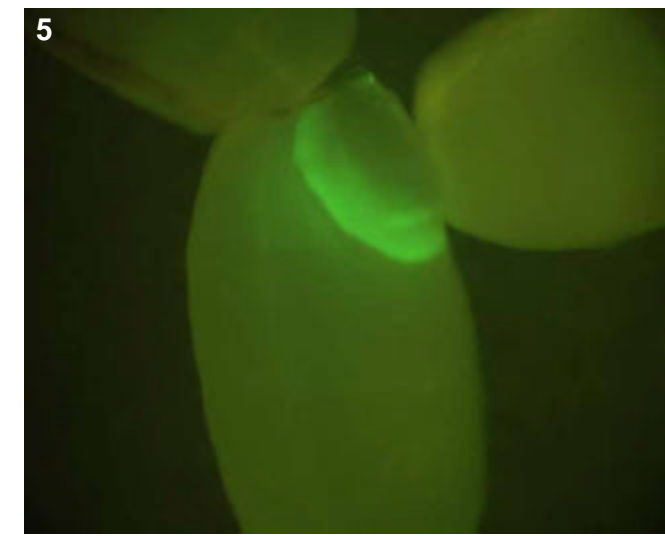
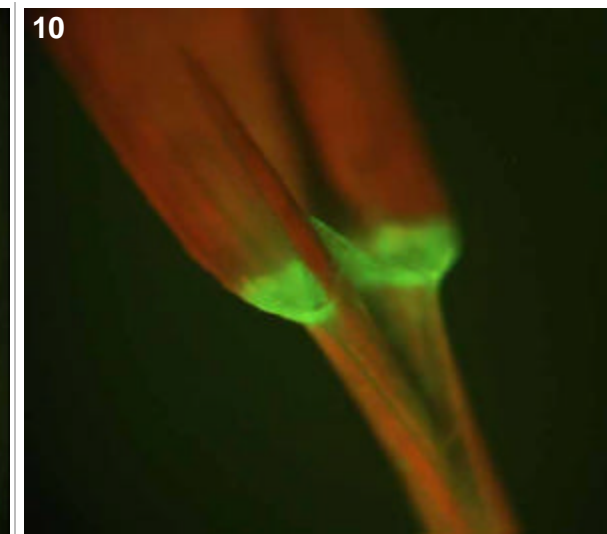
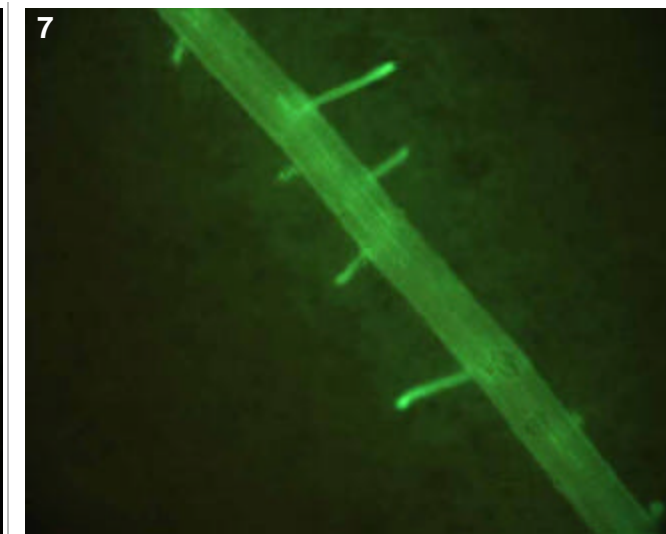
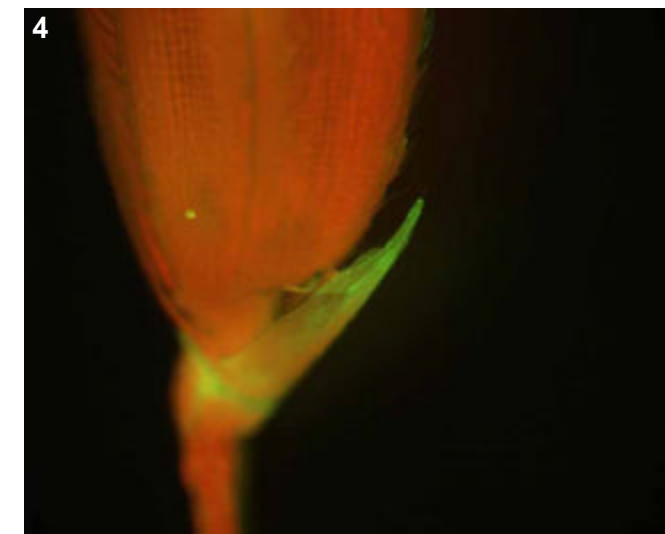
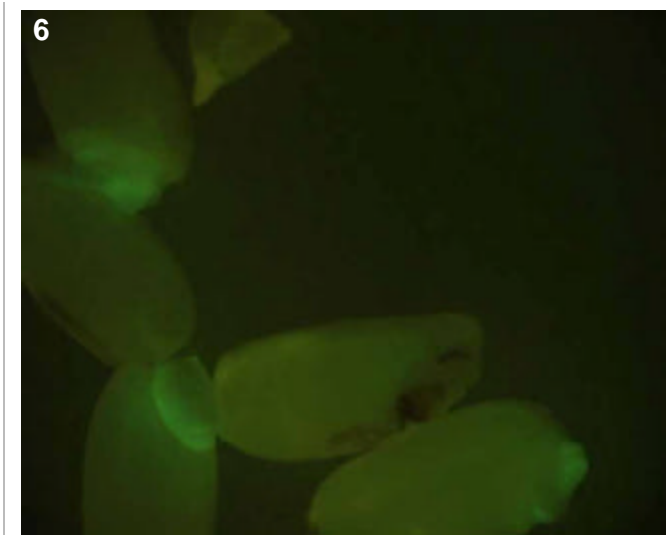
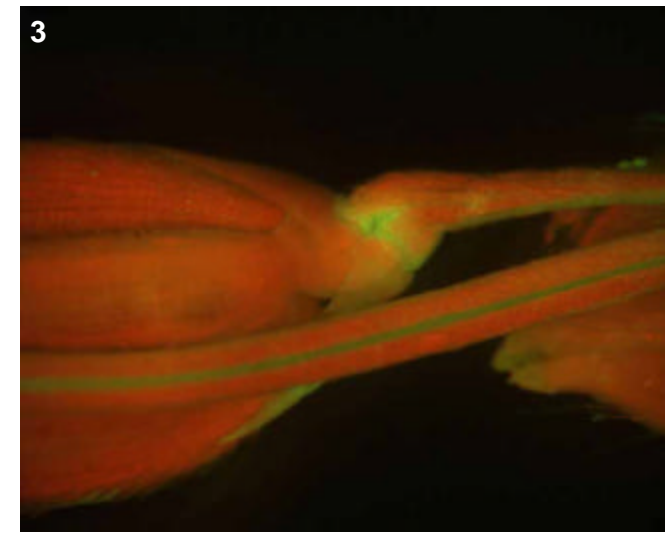
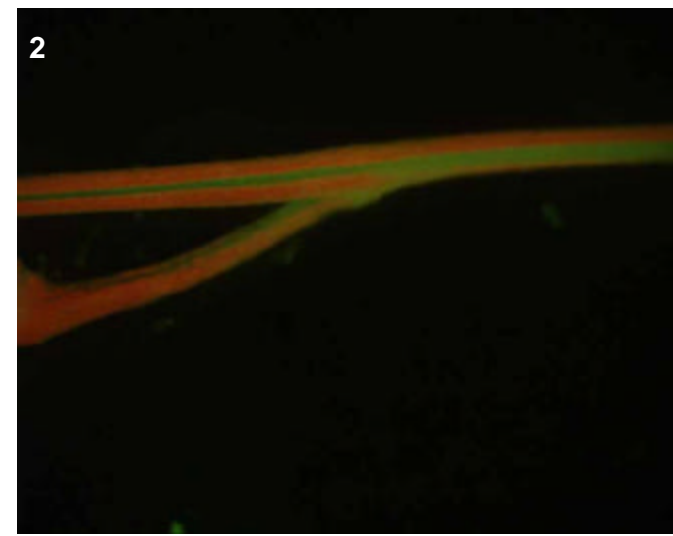
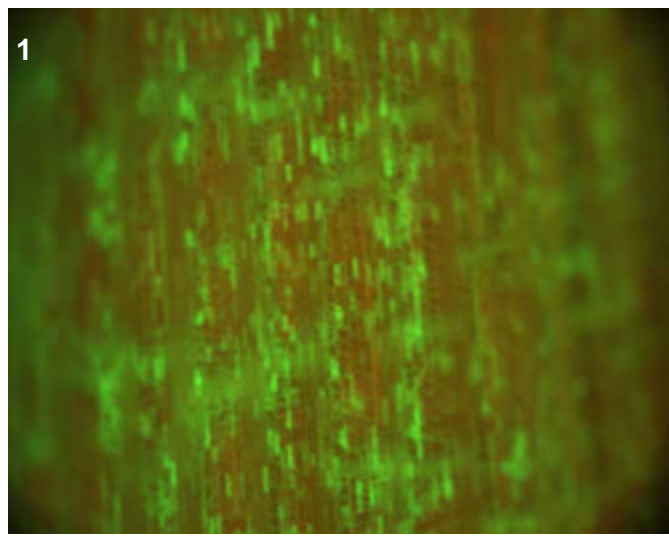
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 15



T0 comments

Scattered expression in cells of sheath. Bright vascular expression in the pedicel (pic 2) floral stem (pic 3) and sterile lemmas (pic 4).

T1 seed comments

3/5 seeds had expression. Two seeds looked like embryo, while the other looked like scutellum.

T1 seedling comments

Looks like bright epidermal expression in the roots (pics 7-8).

Genotype: ARC E03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling: 6-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

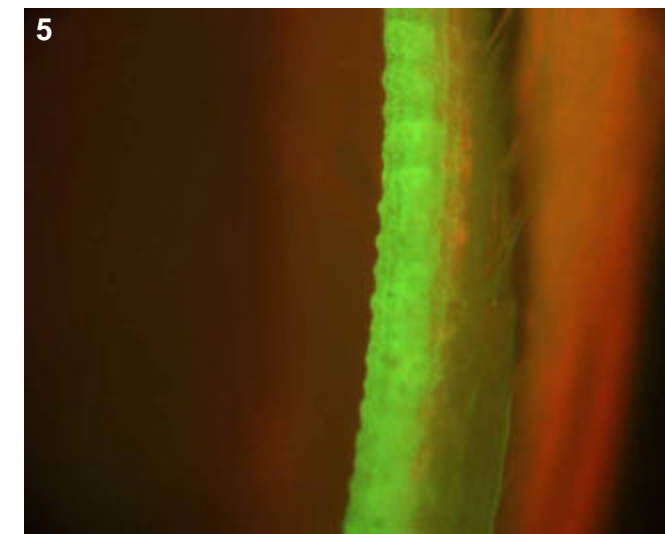
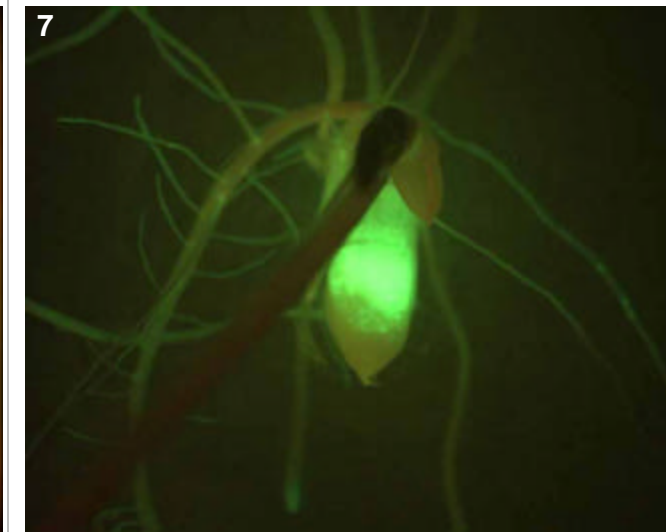
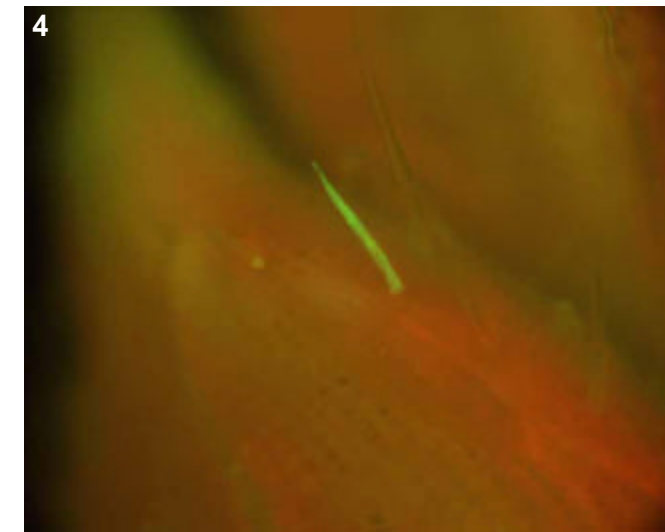
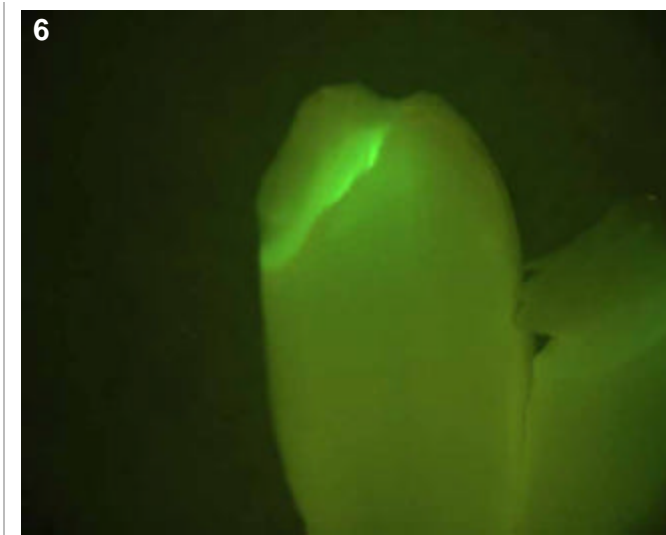
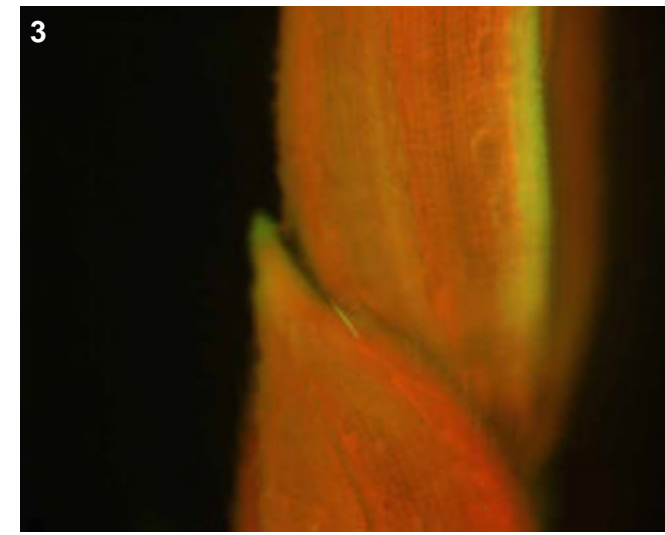
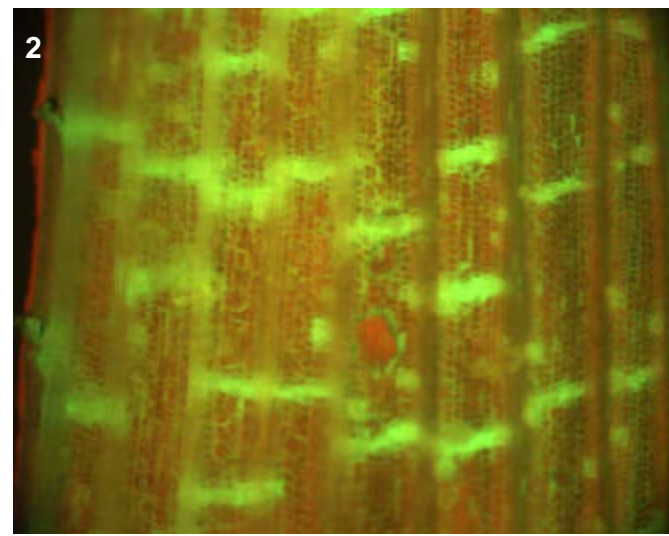
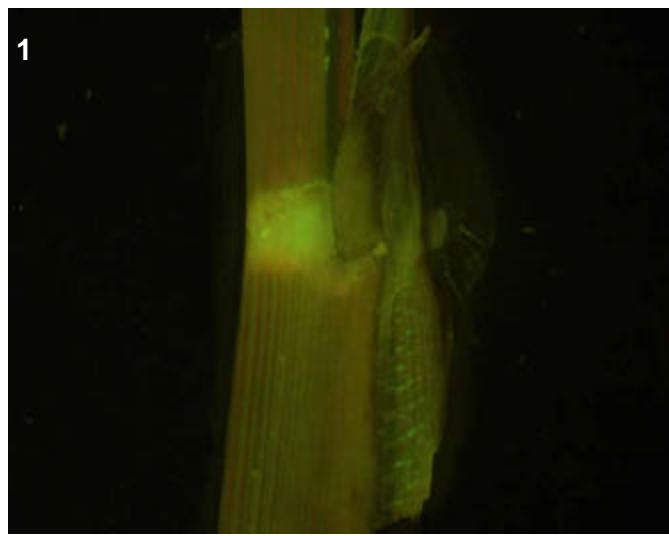
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 41



T0 comments

T1 seed comments
 2/5 seeds had medium expression in scutellum

T1 seedling comments
 Note the brighter expression towards tips of crowns (pic 7) as well as the very bright endosperm.

Genotype: ARC E07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

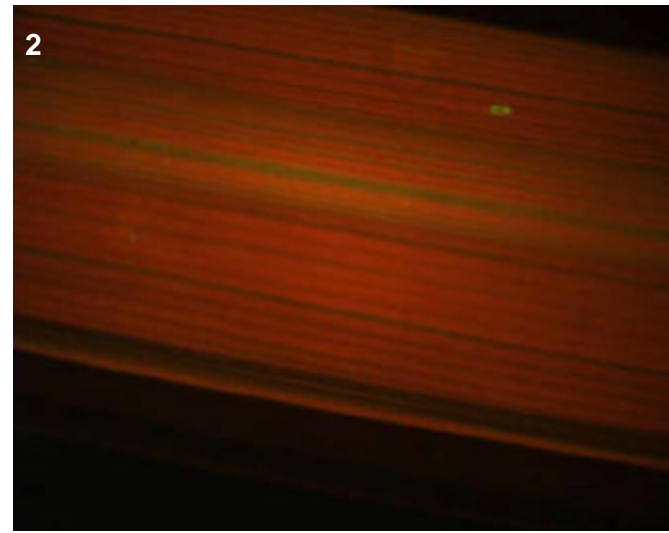
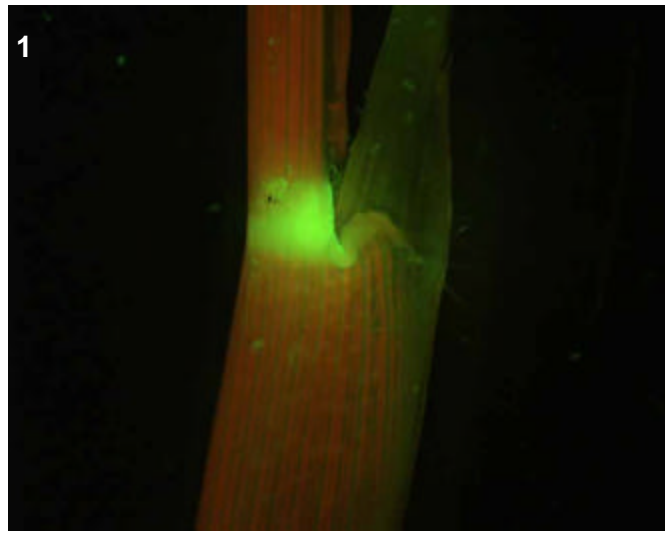
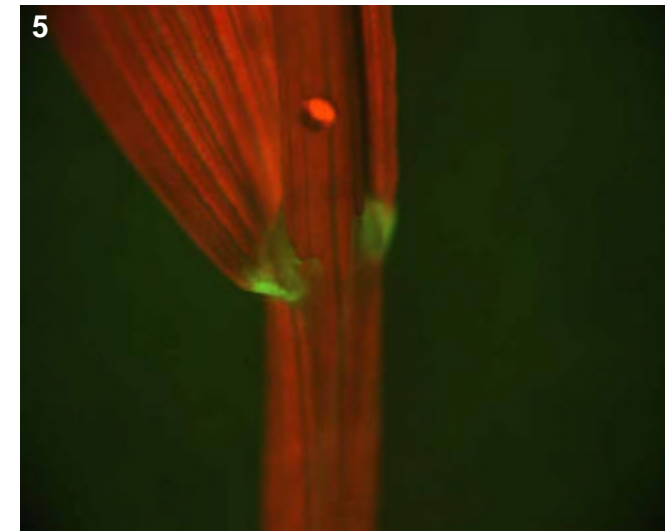
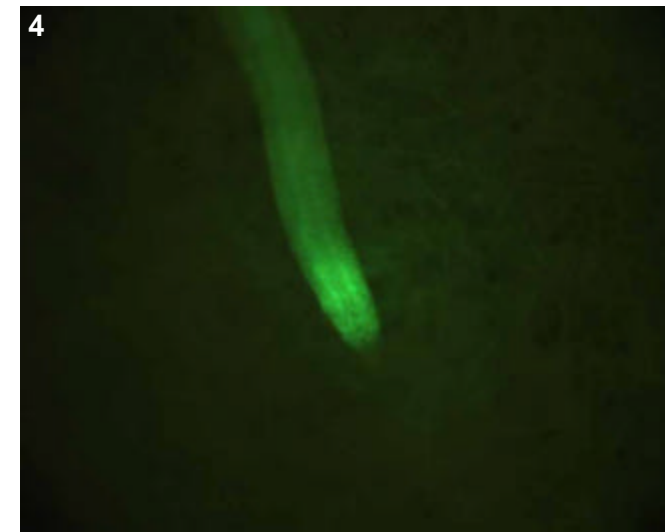
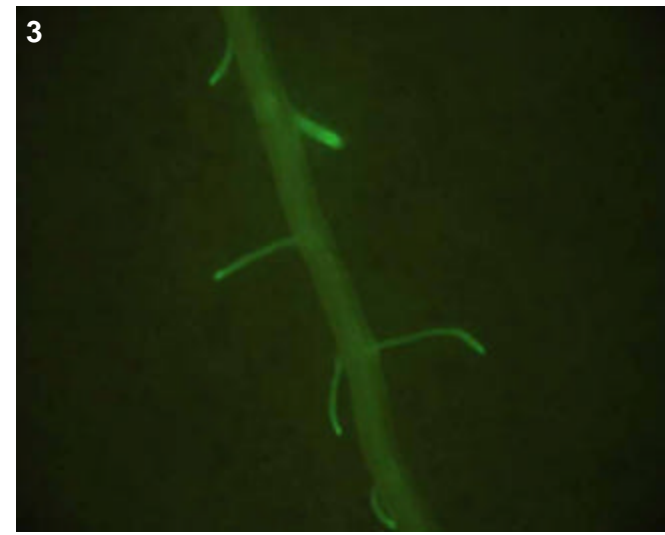
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 3



T0 comments

Flowers too diseased for photograph.

T1 seed comments

T1 seedling comments

Perhaps epidermal expression in roots (pic 4)

Genotype: ARC E12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-8
 T1 seed/seedling: 9-10
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

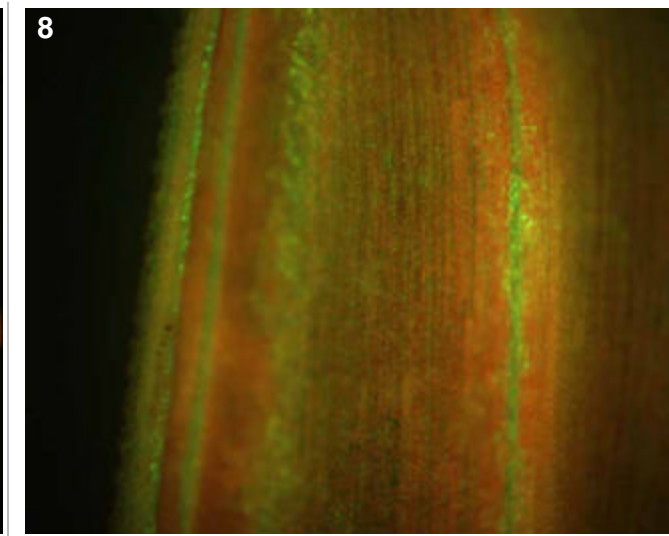
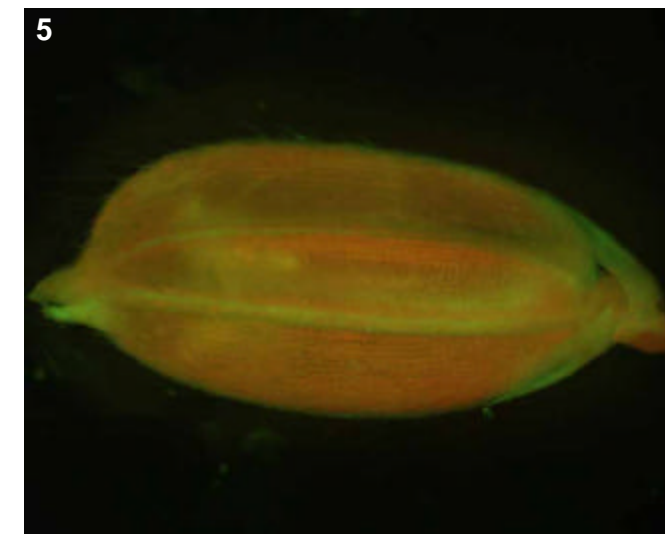
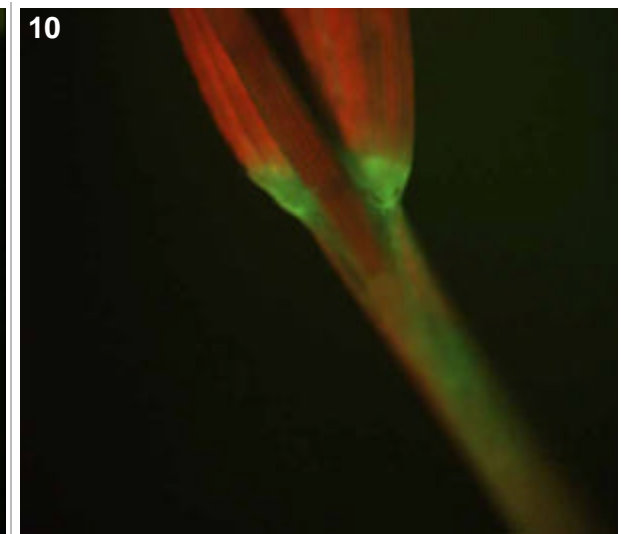
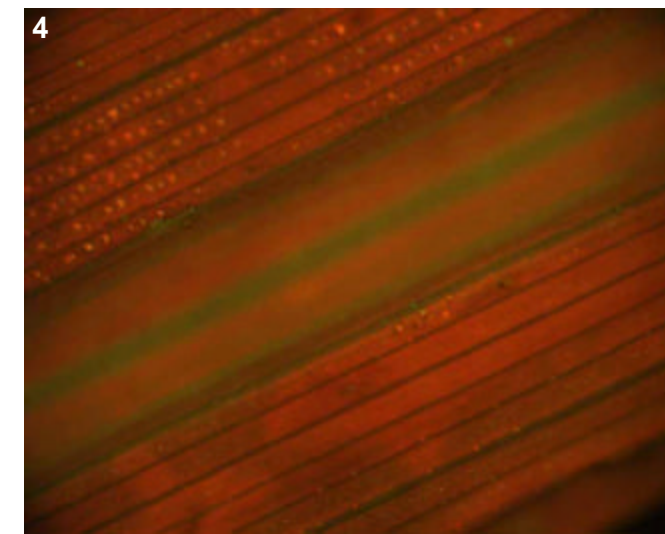
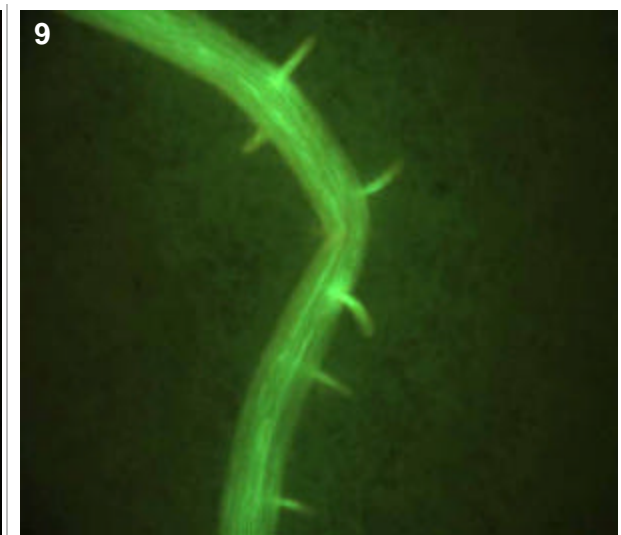
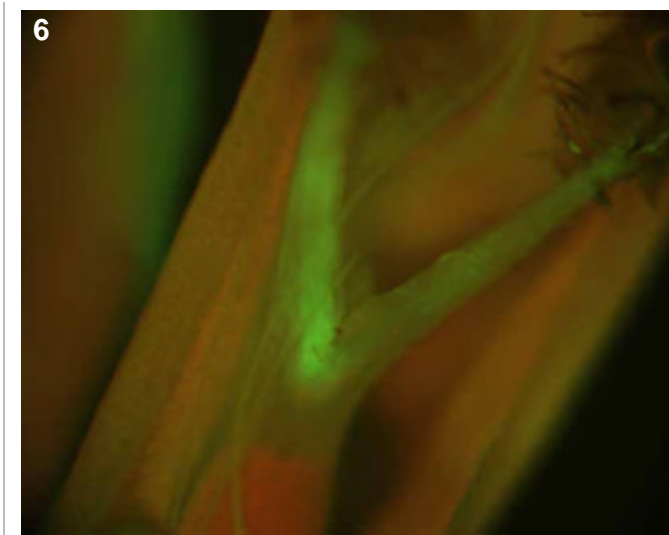
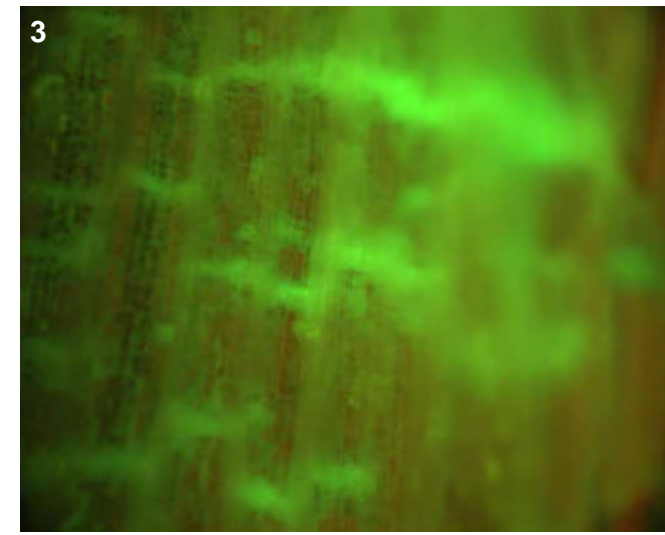
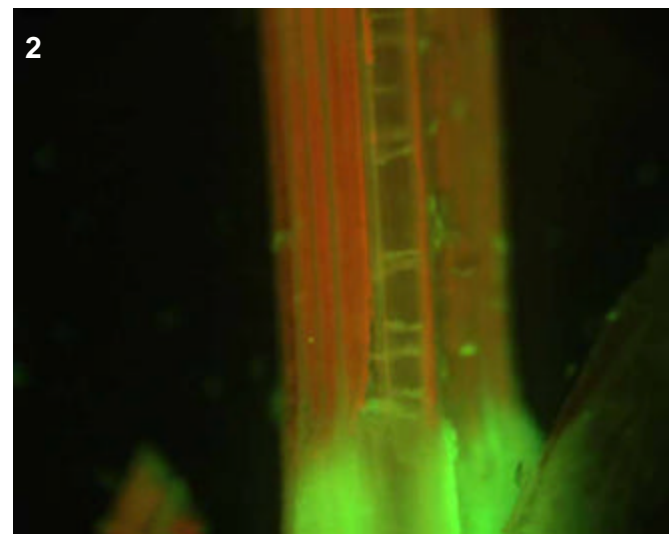
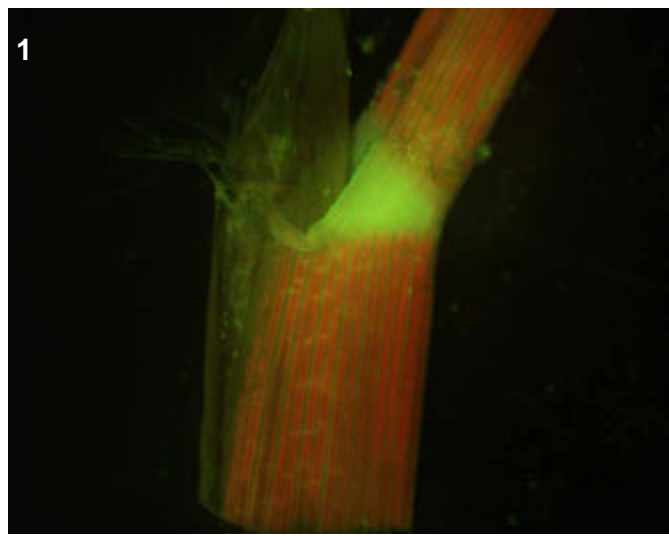
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 105



T0 comments

Note the stigma expression in pictures 6 and 7.

T1 seed comments

T1 seedling comments

Could be quite general expression throughout the shoot, perhaps in the mesophyll around collar (pic 10).

Genotype: **ARD B08**

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

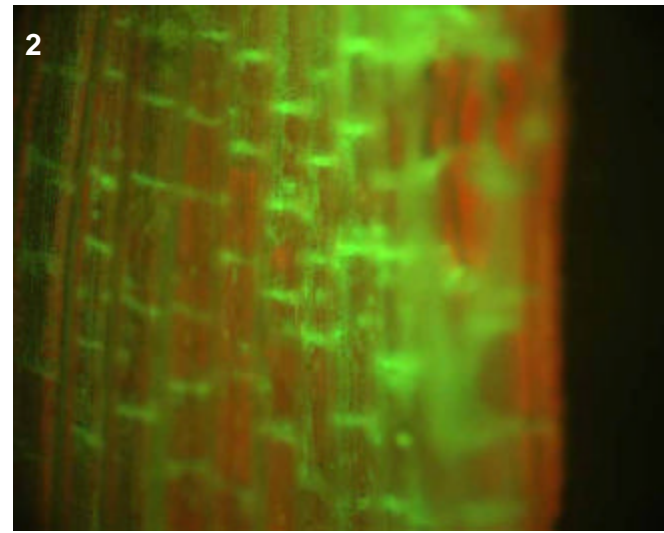
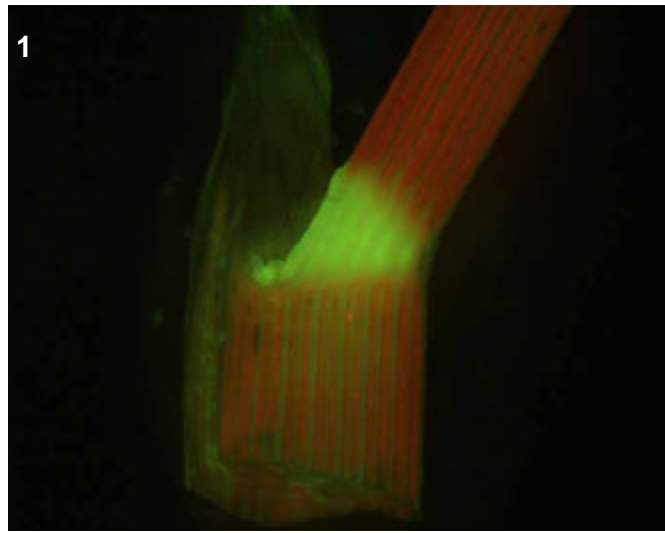
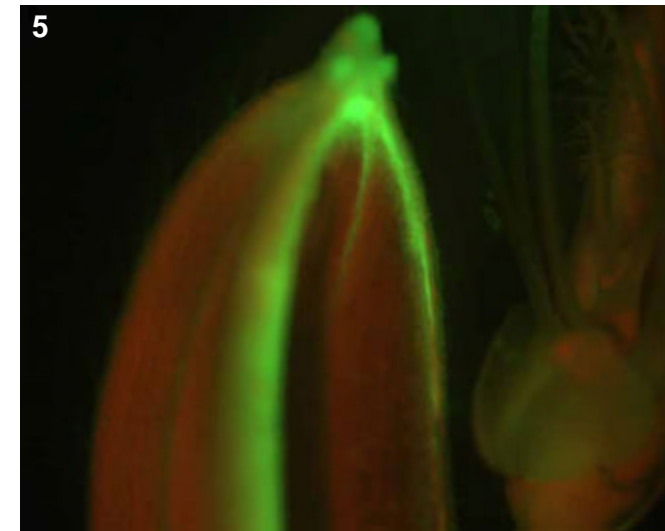
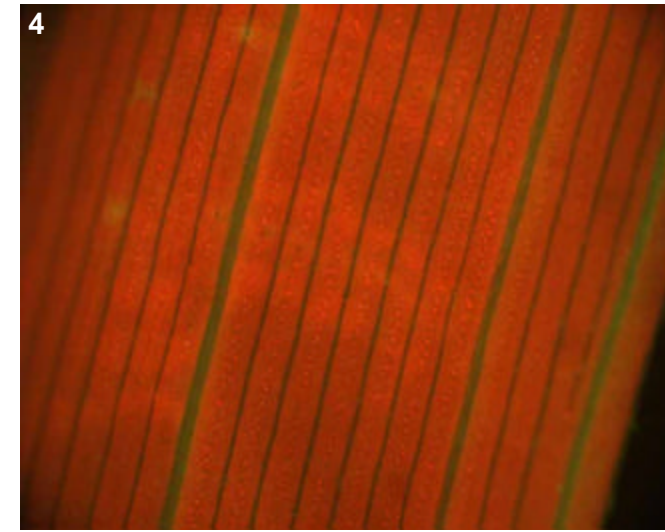
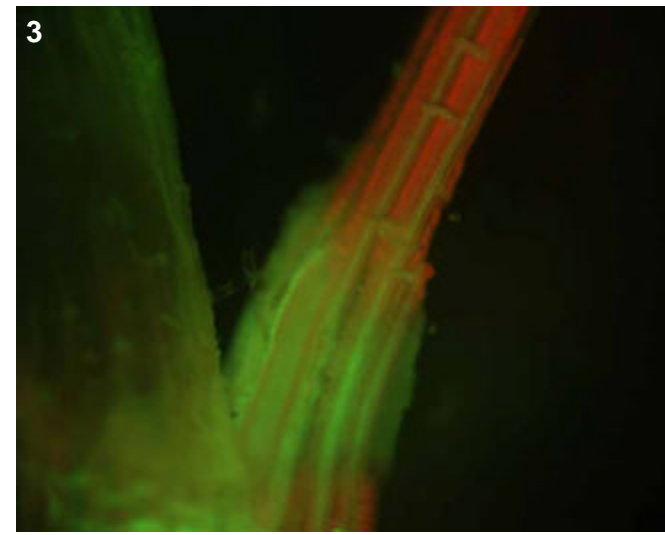
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Genotype: **ARD F07**

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

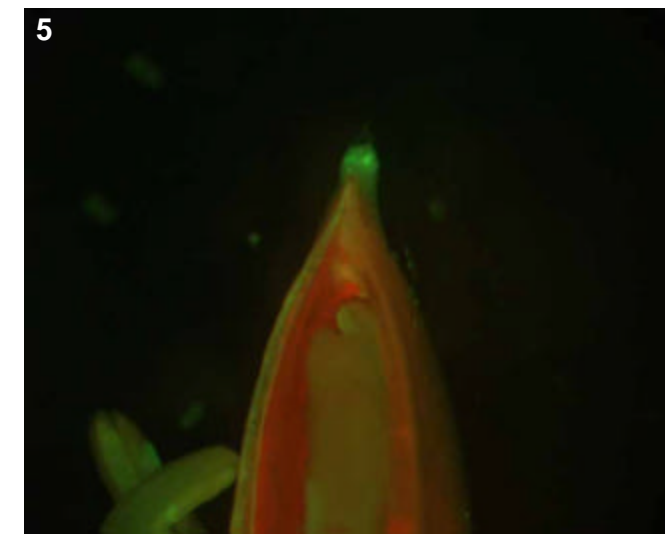
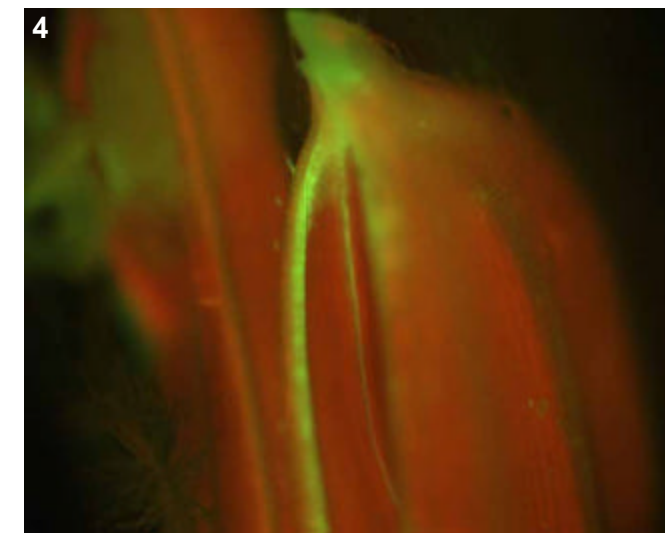
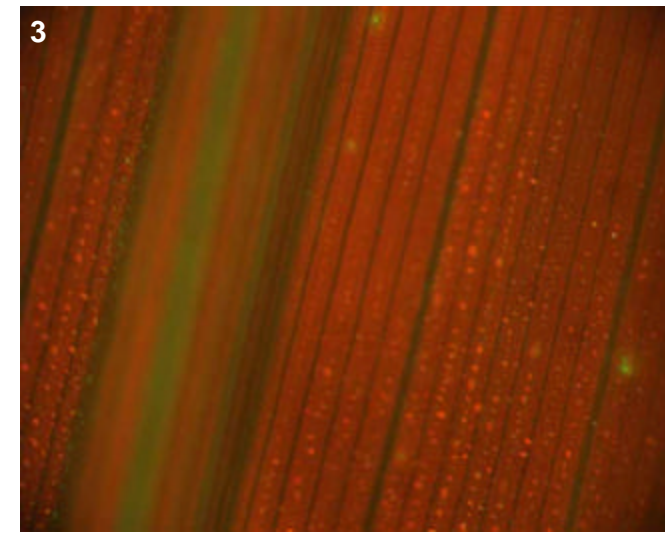
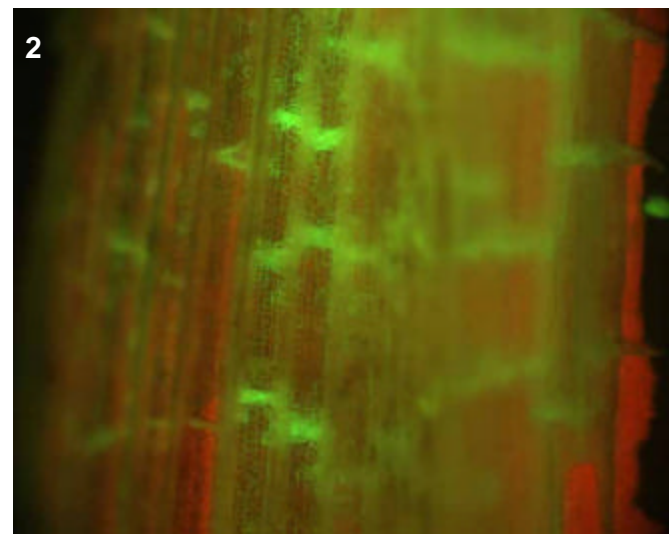
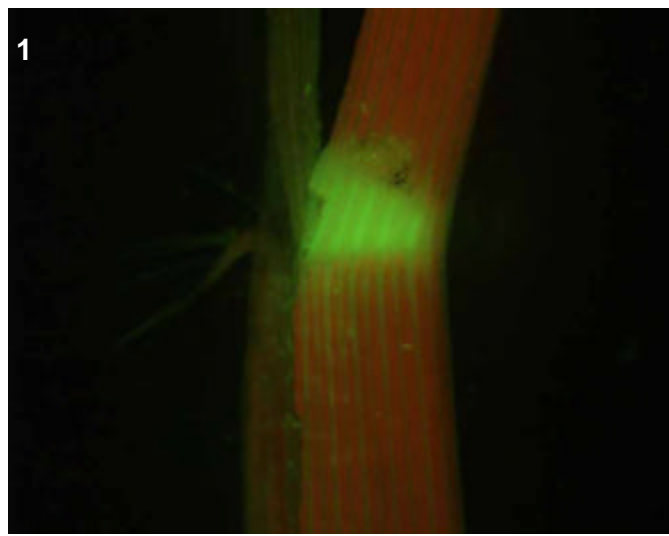
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line, note the bright tips of lemma/palea in pics 4 and 5.

T1 seed comments

T1 seedling comments

Genotype: **ARD F10**

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

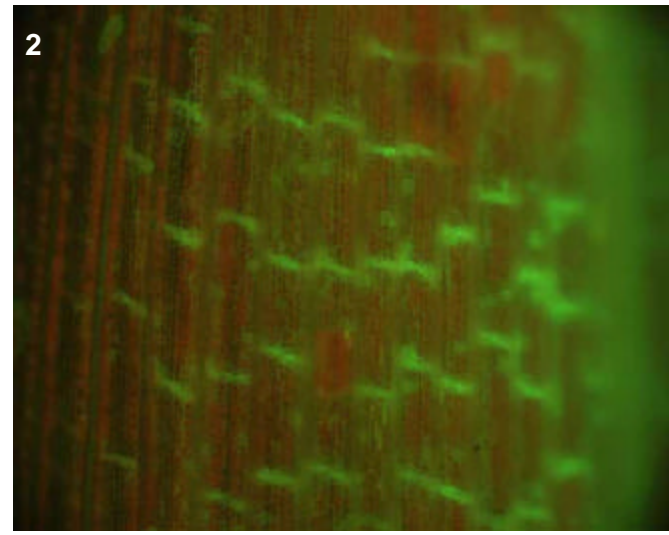
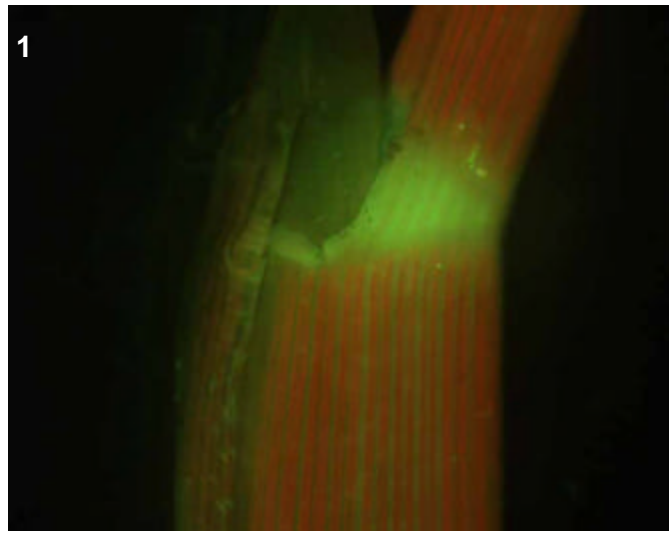
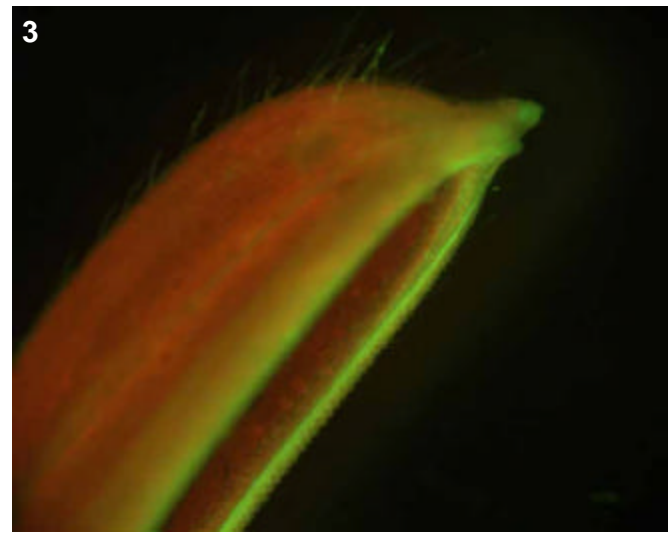
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

Expression in the flower includes the vascular and the tips of lemma/palea (pic 3).

T1 seed comments

T1 seedling comments

Genotype: **ARD F11**

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

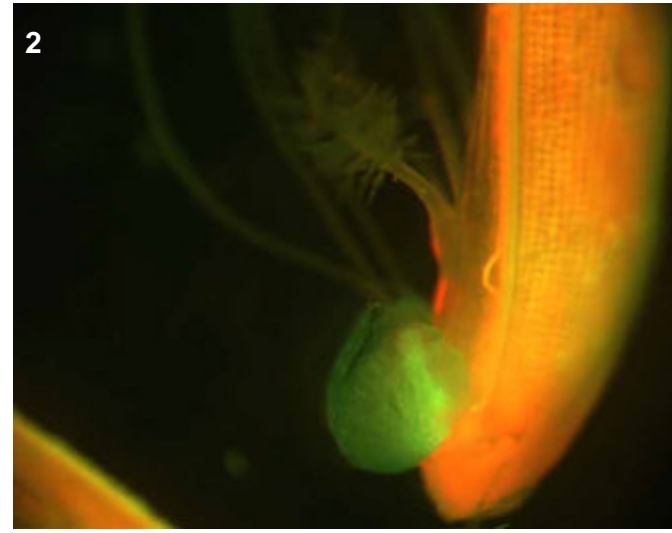
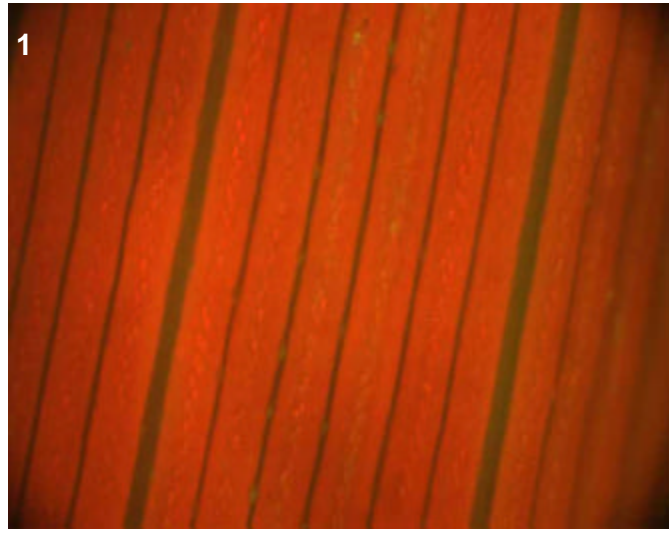
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARE A06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

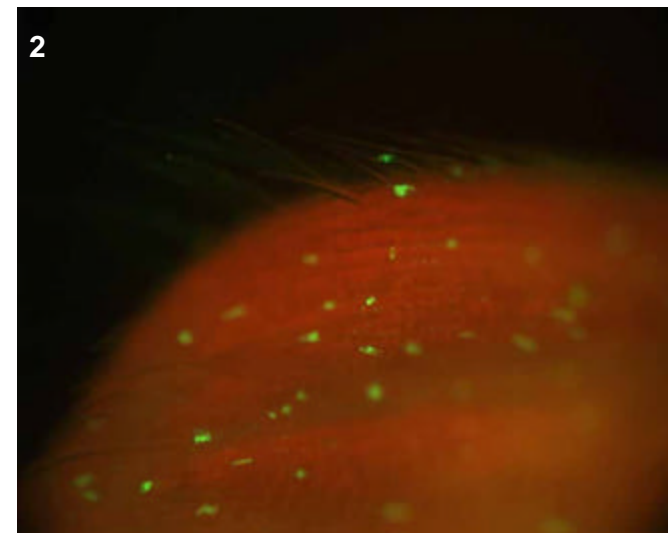
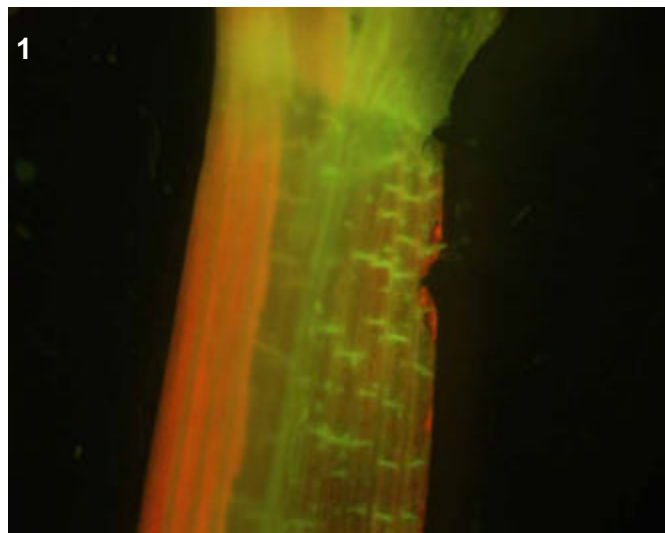
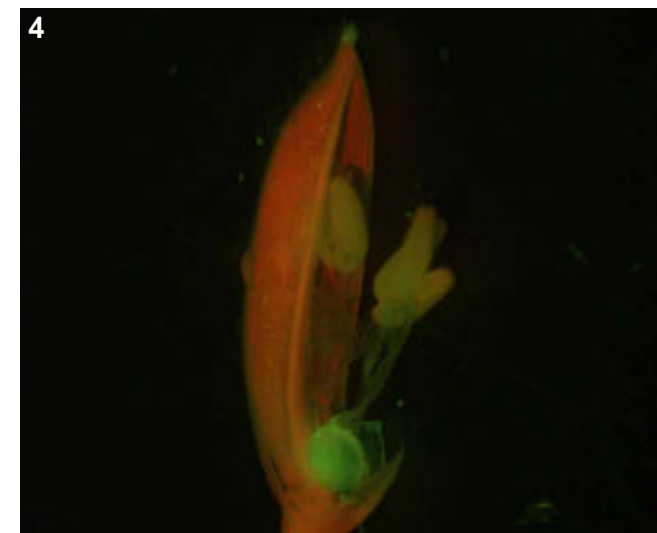
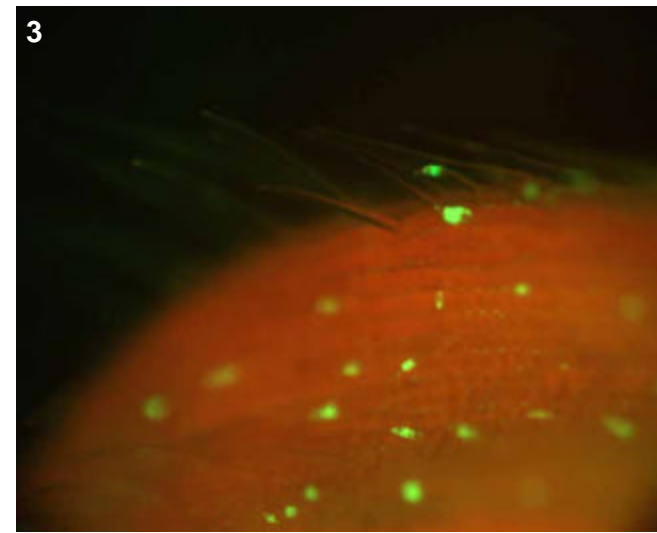
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 plants

Confocal?

Number T2 seed produced: 1



T0 comments

Very interesting floral trichomes (pics 2 and 3). Only the small trichomes are expressing GFP, not the larger ones as observed in a few other lines.

T1 seed comments

Possibly very faint expression in embryo, no picture taken.

T1 seedling comments

Genotype: ARE B08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

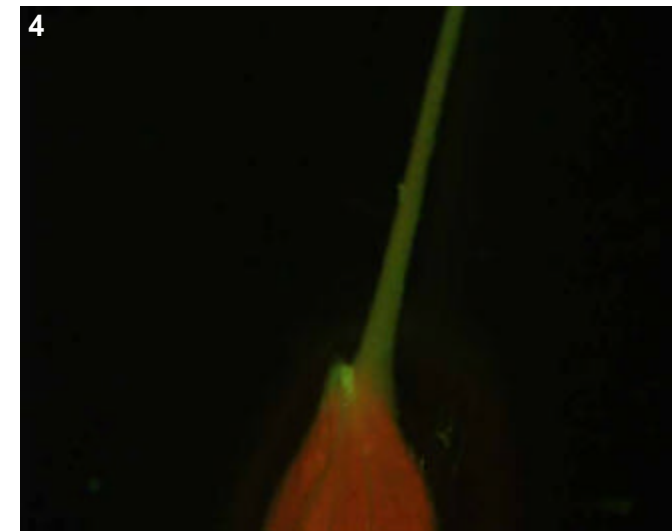
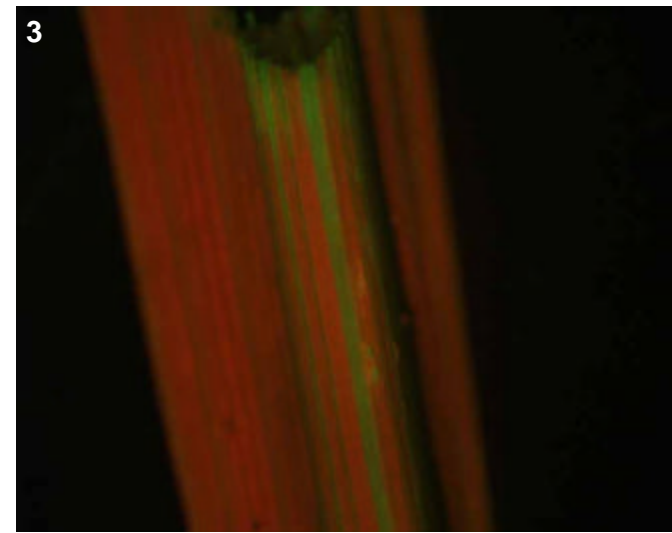
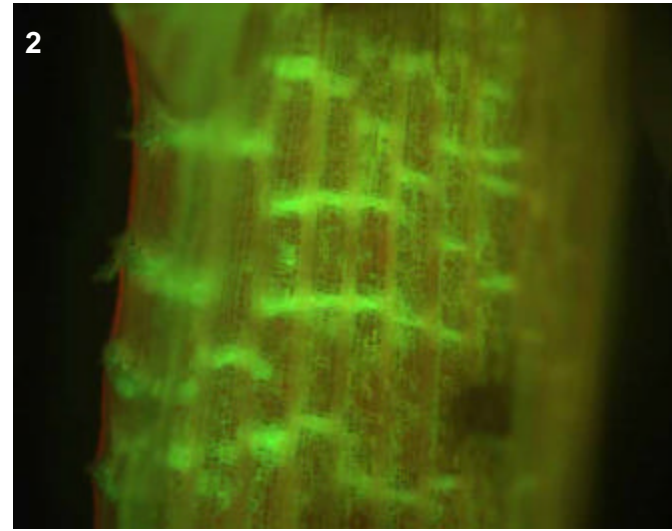
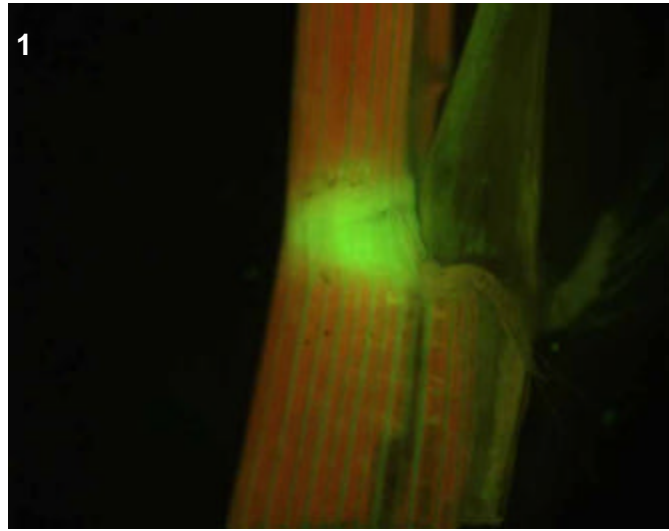
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

tetraploid plant with bright vascular expression in the blade and tips of flower.

T1 seed comments

T1 seedling comments

Genotype: ARE D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

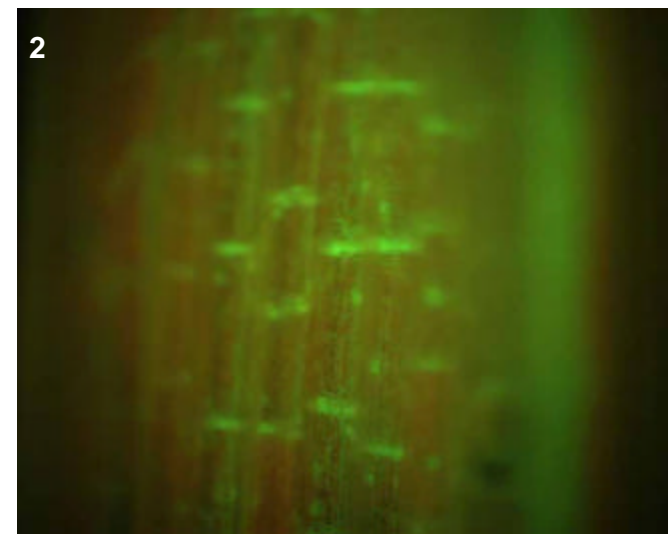
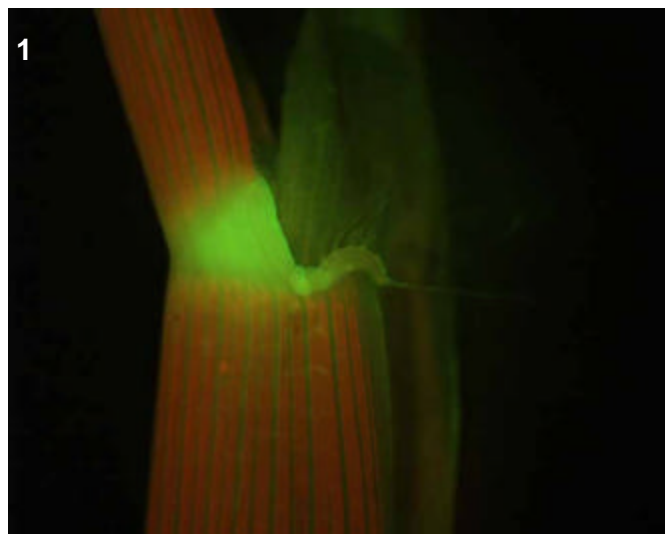
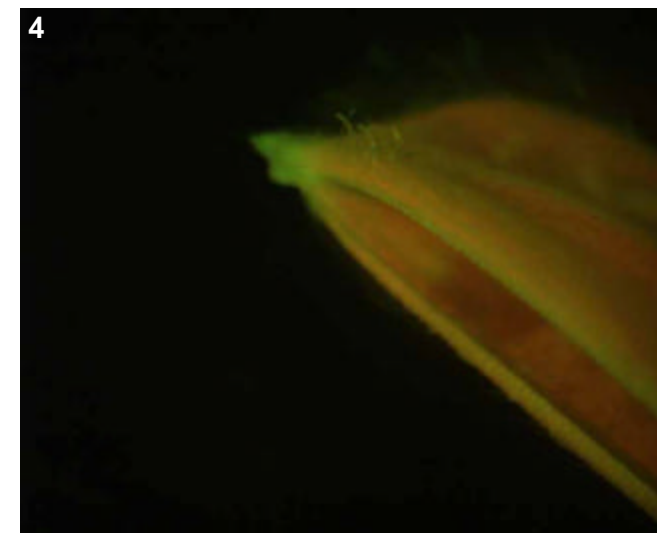
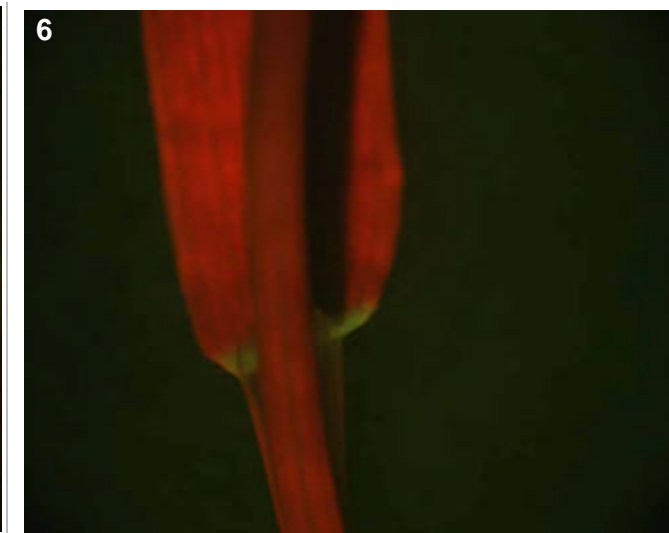
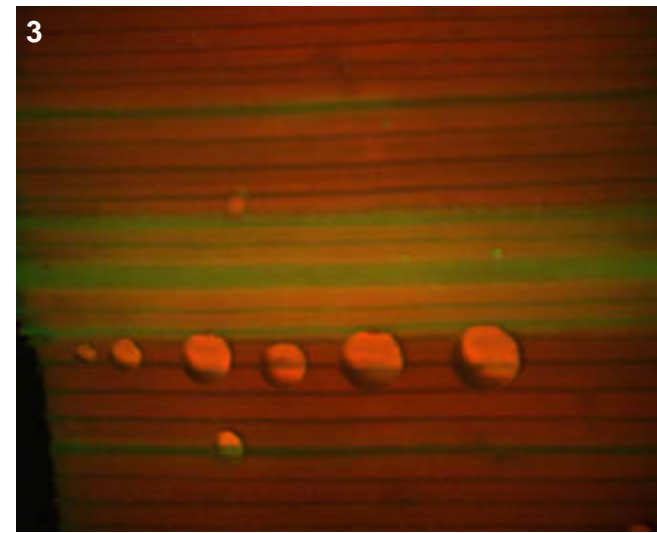
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 3



T0 comments

Bright collar and sheath/leaf vascular, more faint floral vascular (pic 4).

T1 seed comments

T1 seedling comments

Medium vascular expression in the roots (pic 5), weak expression in the collar (pic 6).

Genotype: ARE E02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

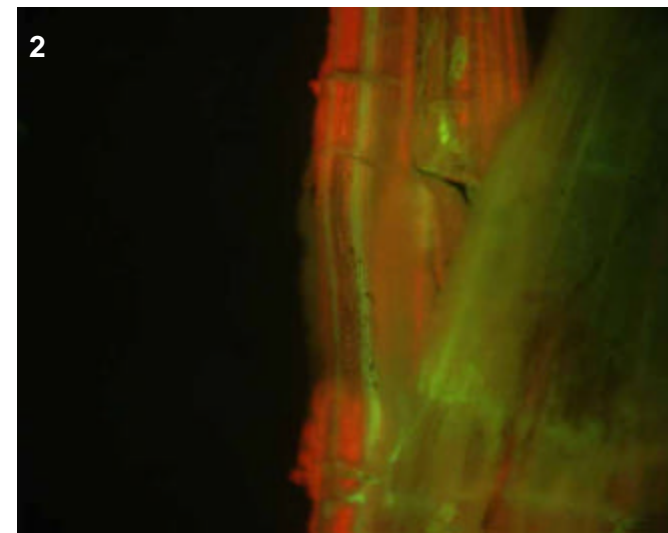
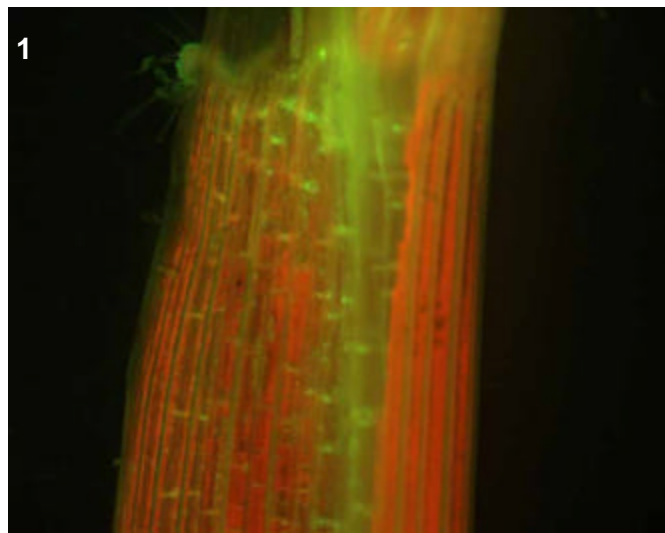
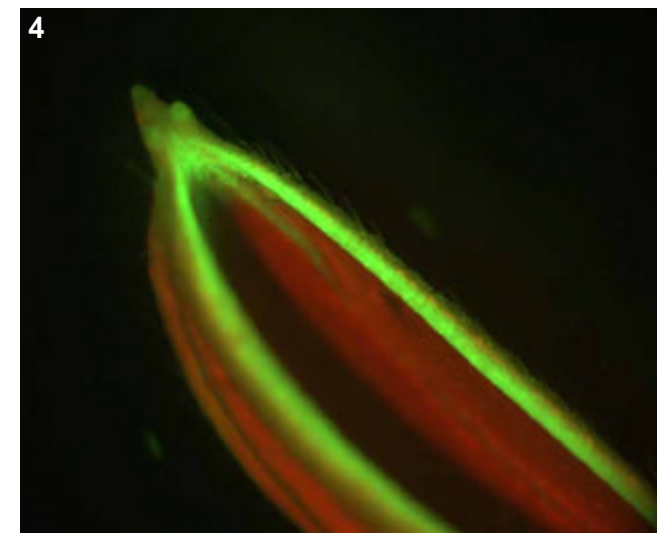
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

No collar expression, medium expression in sheath and leaf vascular. Very bright expression in floral vascular (pics 3 and 4).

T1 seed comments

T1 seedling comments

Genotype: ARE G11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-9
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

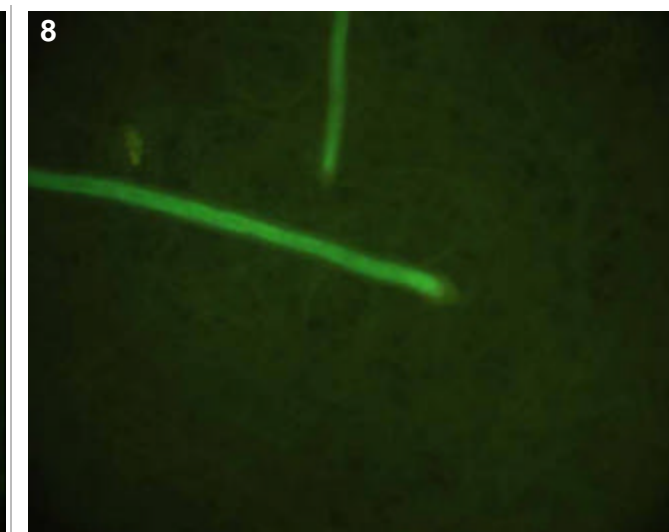
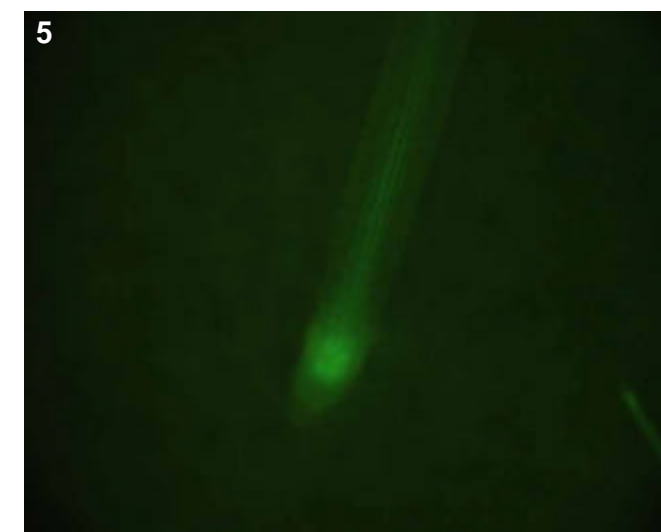
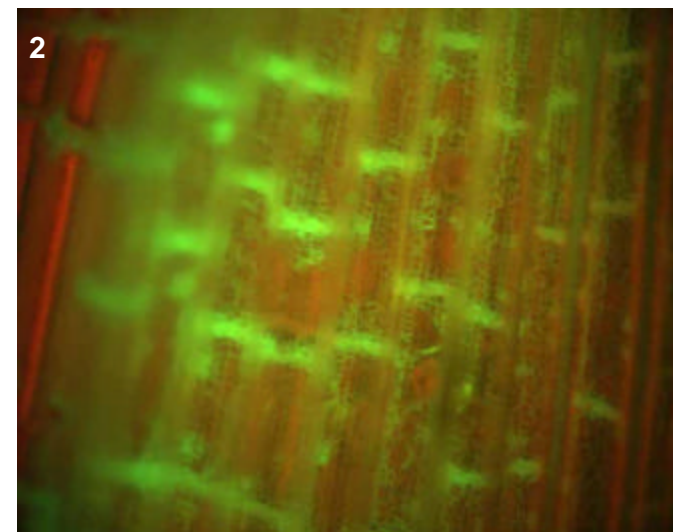
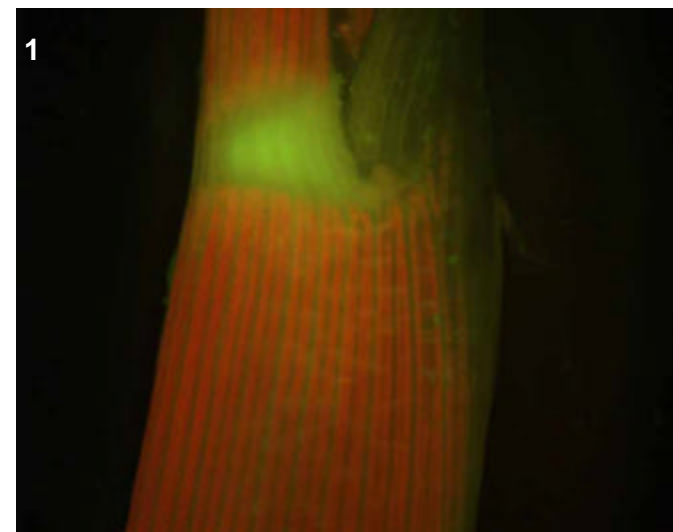
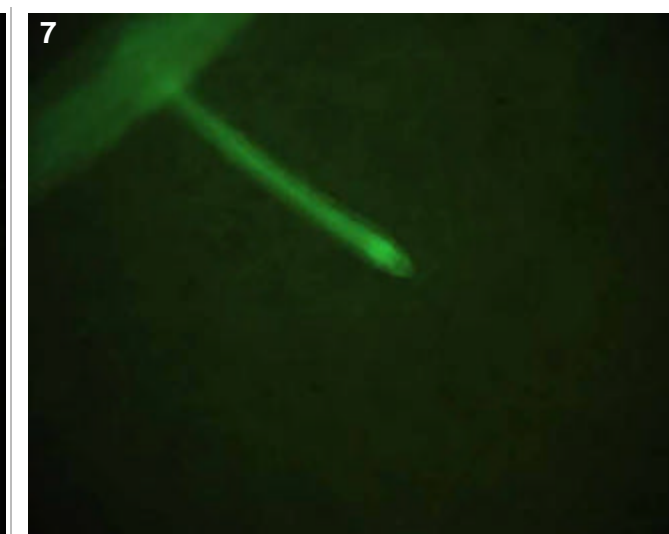
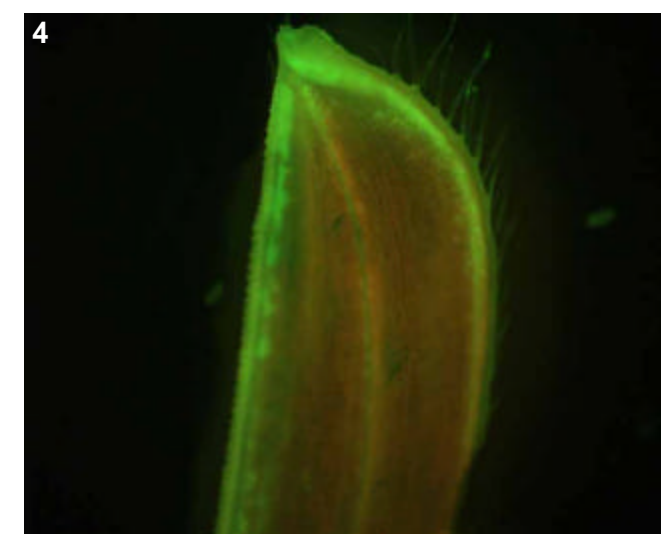
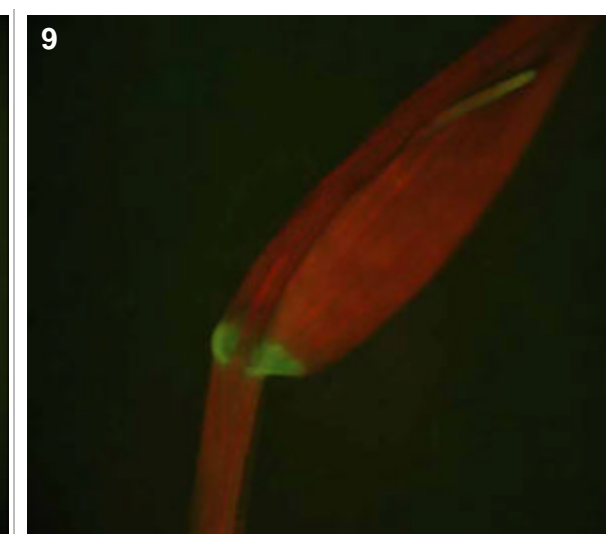
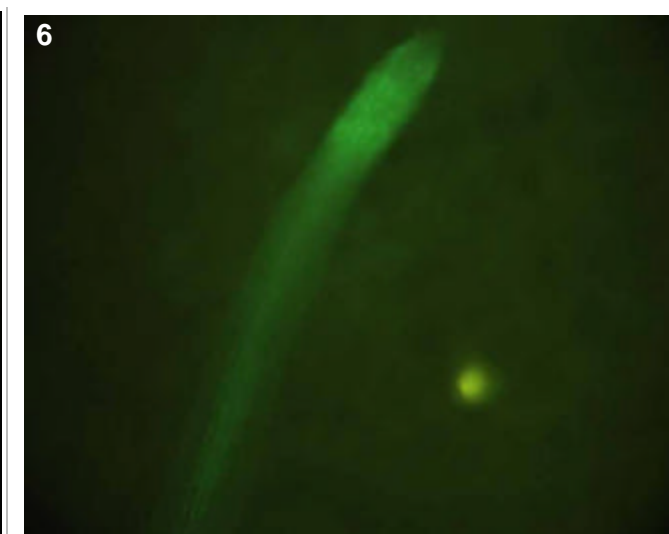
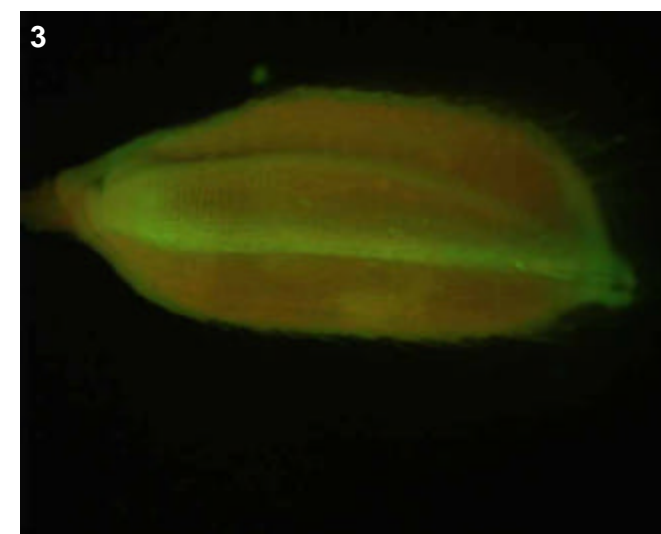
No GFP detected

T1 in greenhouse?

YES, 3 GFP+ plants

Confocal? WIP

Number T2 seed produced: 33



T0 comments

Bright expression in sheath and floral vascular, while the collar expression (pic 1) is medium expression.

T1 seed comments

T1 seedling comments

Note the interesting expression in crown roots (pics 5-6), bright expression near root apex followed by thin "line" extending into the mature root. Pattern may be the same in lats (pics 7-8). Also bright expression in the collar and leaf tips (pic 9).

Genotype: ARE G12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling: 6-9
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

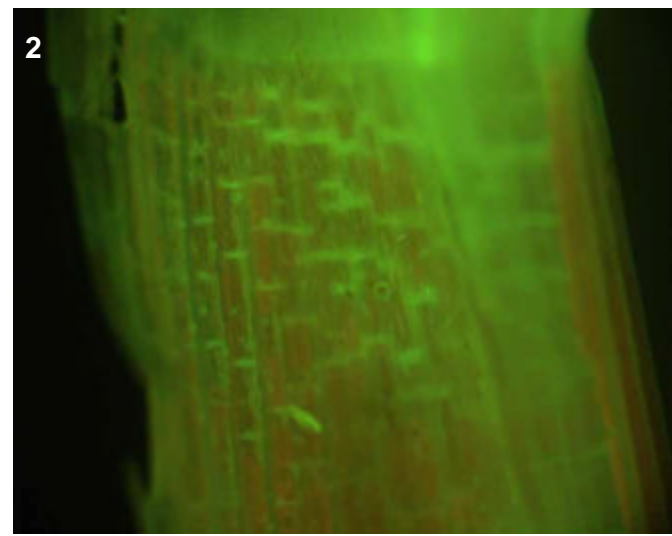
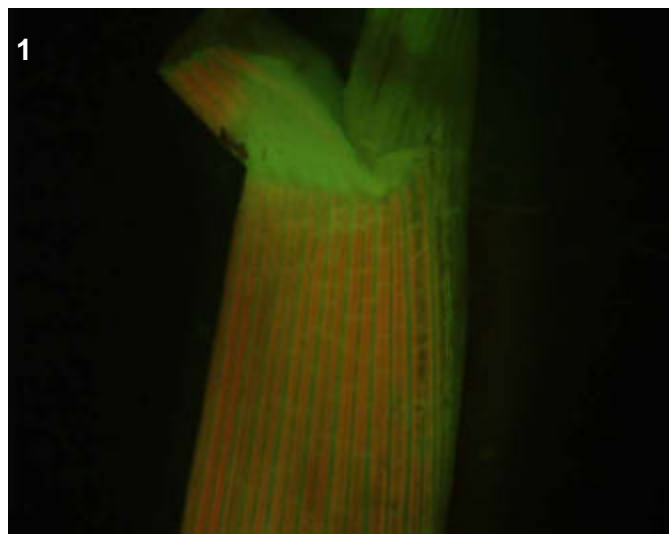
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 7



T0 comments

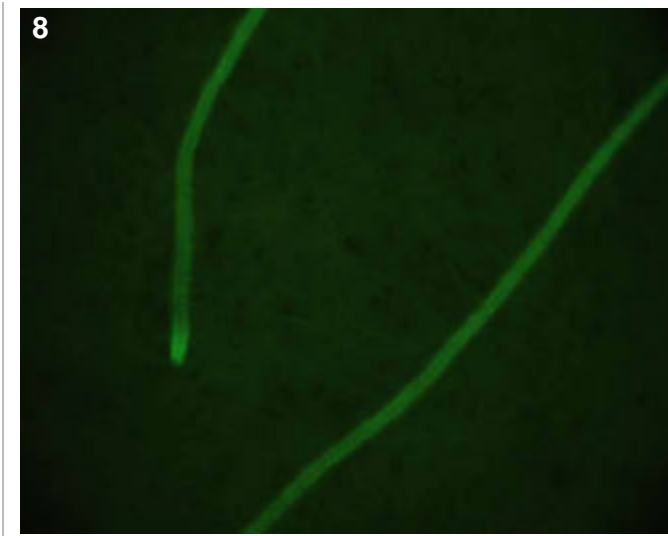
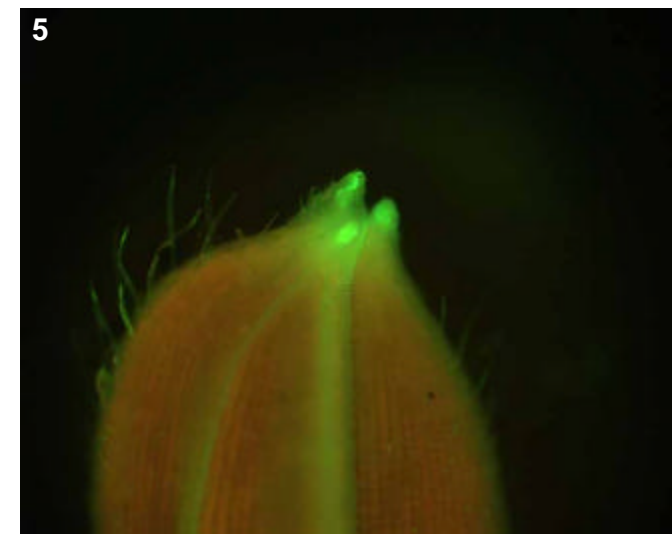
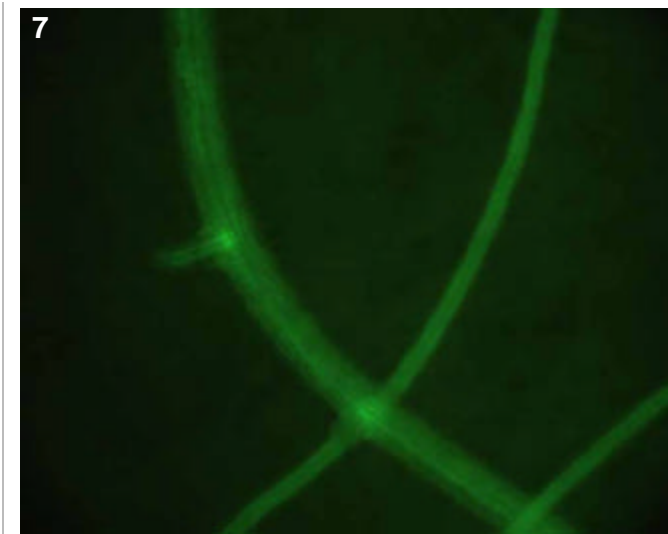
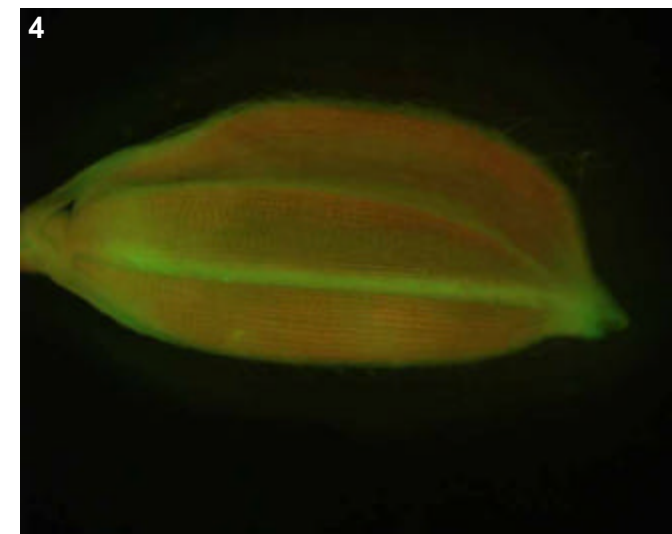
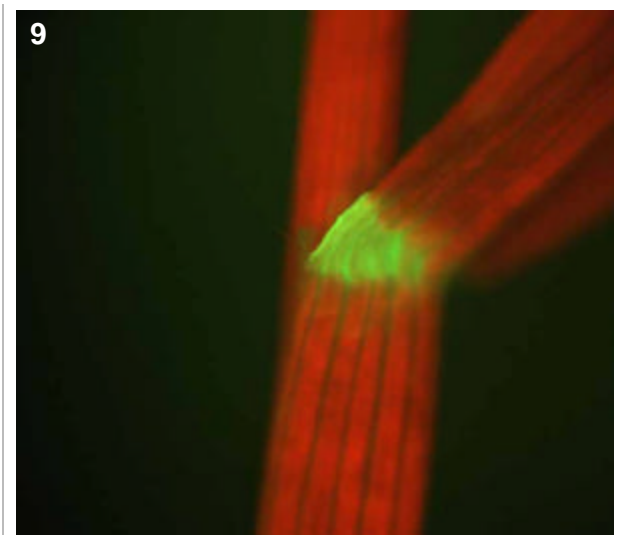
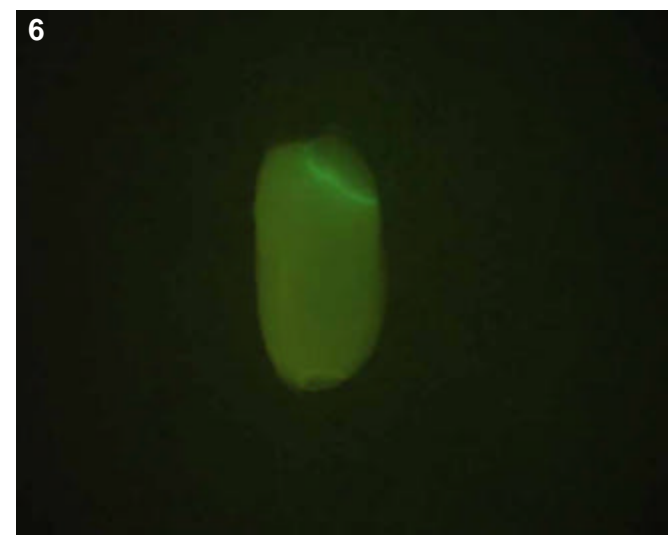
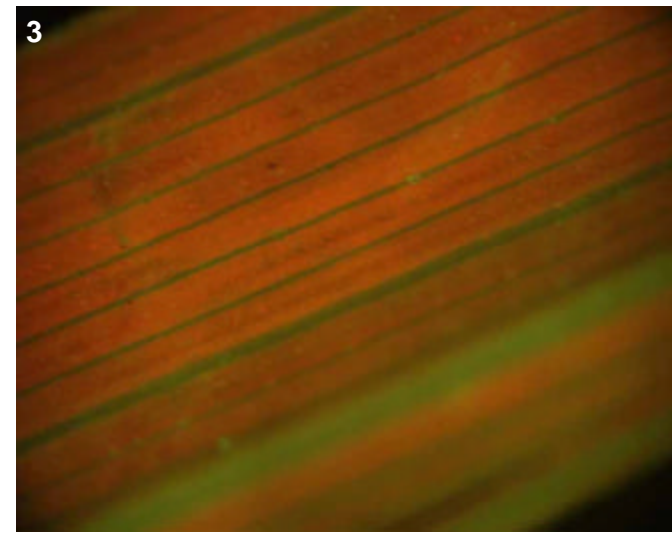
A bright vascular line.

T1 seed comments

2/4 seeds had medium expression

T1 seedling comments

Only 1/5 seeds germinated, yielding one seedling with bright root vascular expression (pics 7-8) and collar (pic 9).



Genotype: ARE H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

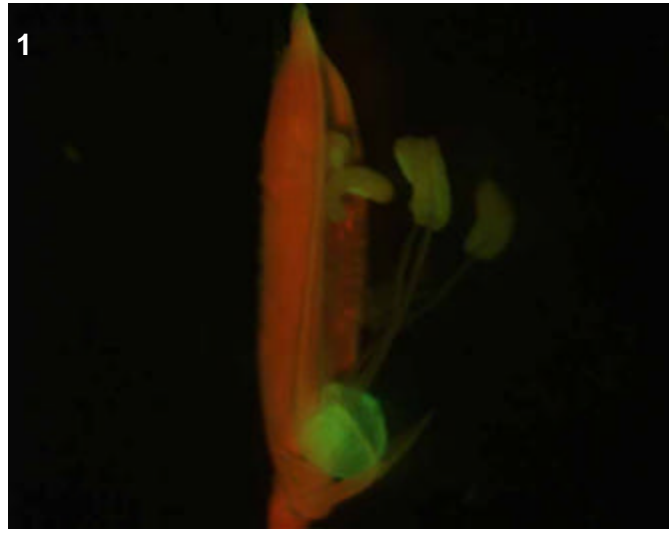
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Bright lodicule expression, accompanied by faint collar expression.

T1 seed comments

T1 seedling comments

Genotype: ARF D03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

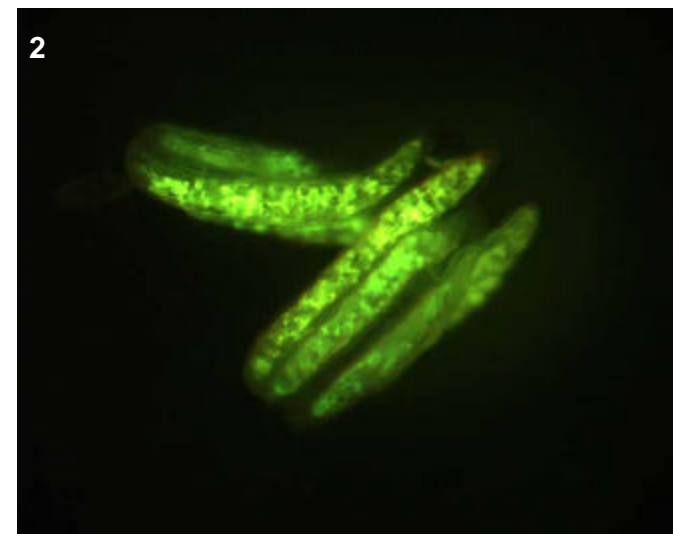
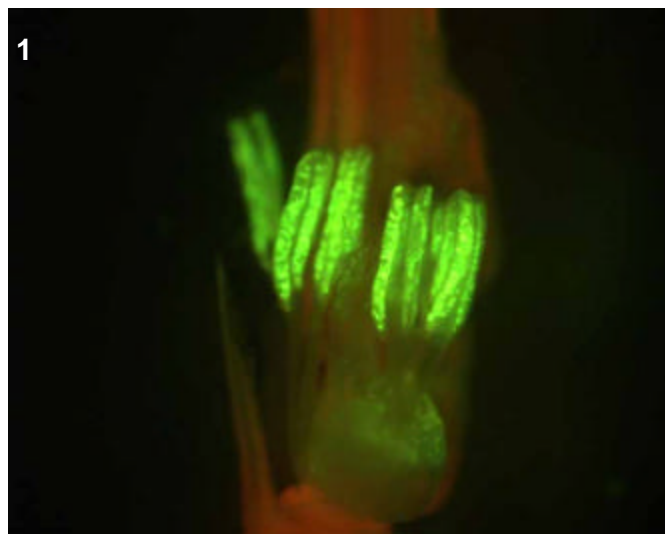
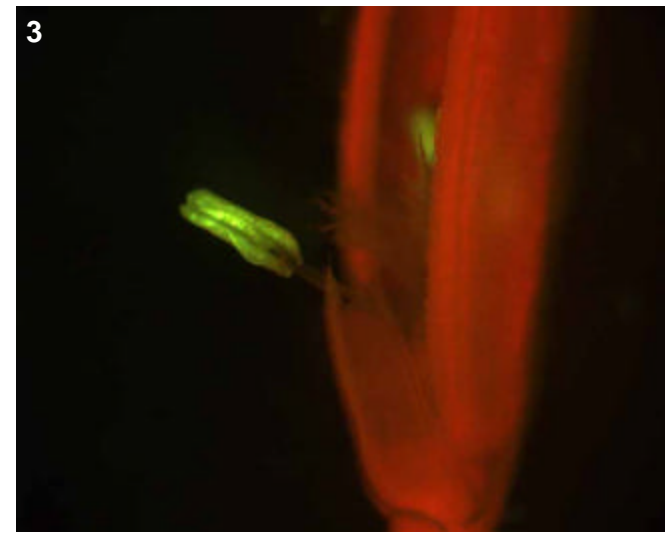
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

I think this is a pollen-tagged line. The filaments look abnormally short.

T1 seed comments

T1 seedling comments

Genotype: ARF F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

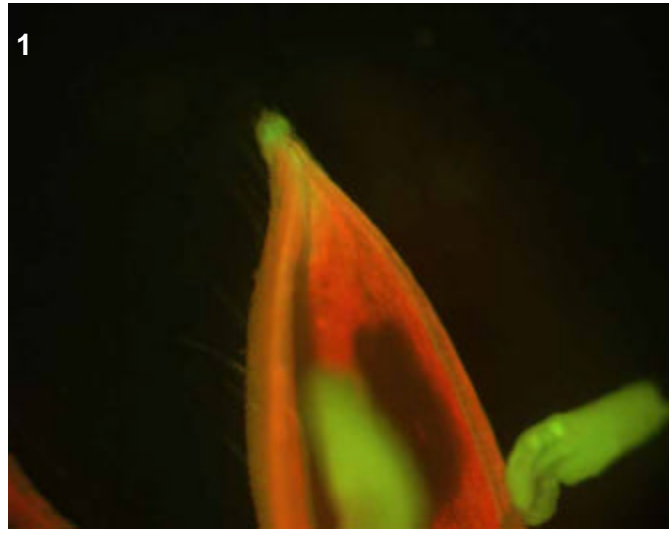
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Just the tips of the lemma/palea are GFP positive. Perhaps the floral vascular too, but not sure.

T1 seed comments

T1 seedling comments

Genotype: ARF G12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

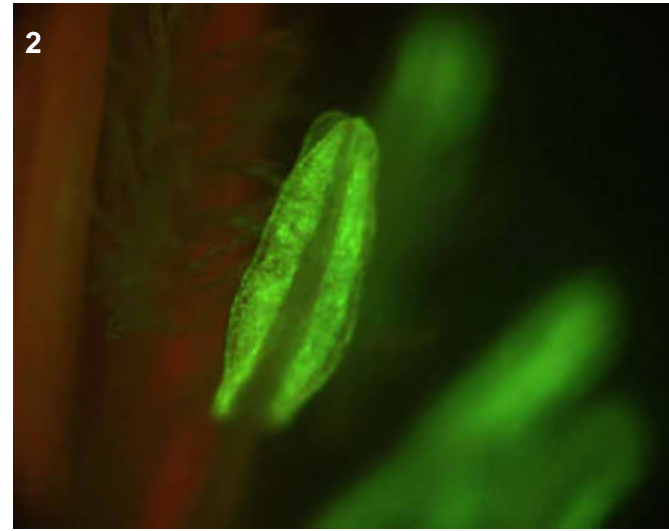
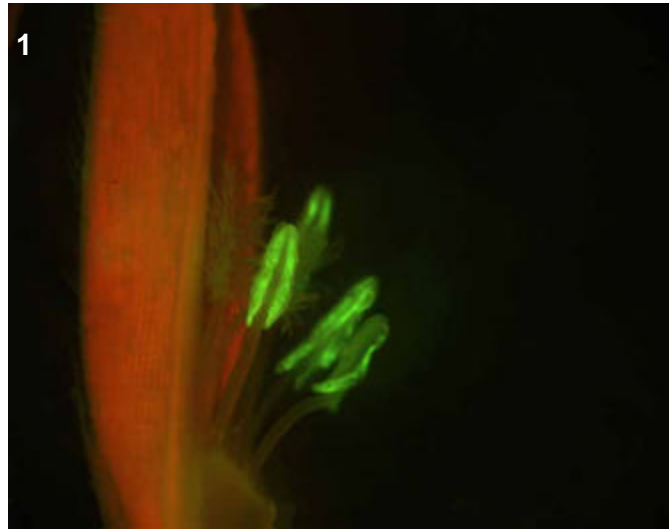
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

filaments look abnormally short.

T1 seed comments

T1 seedling comments

Genotype: ARG A02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-7
 T1 seed/seedling: 8-11
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

New pattern:

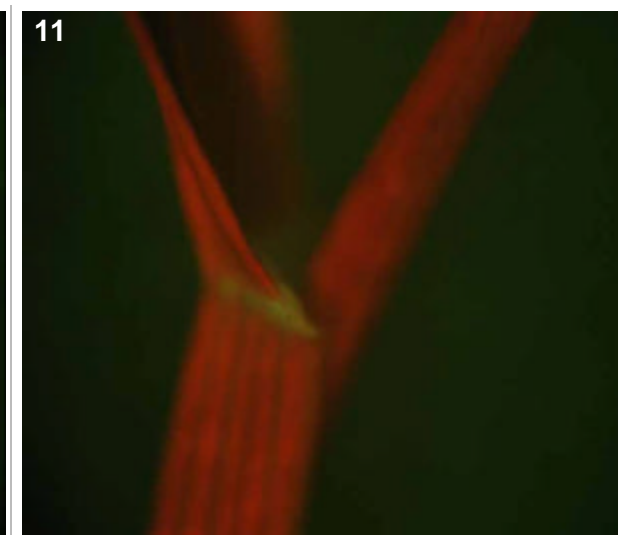
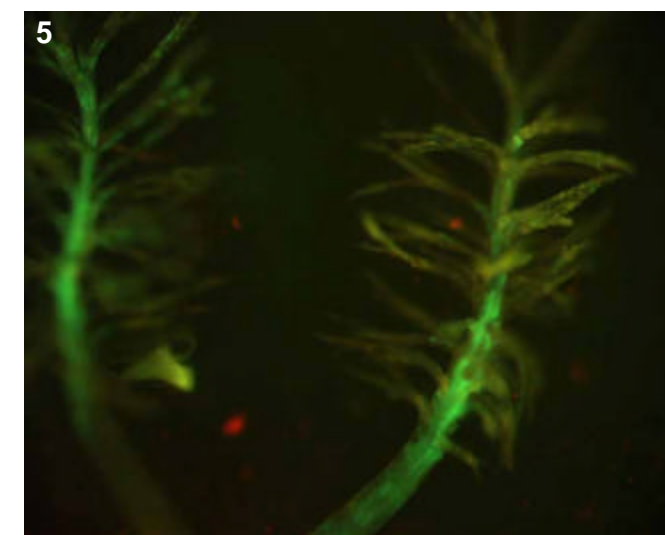
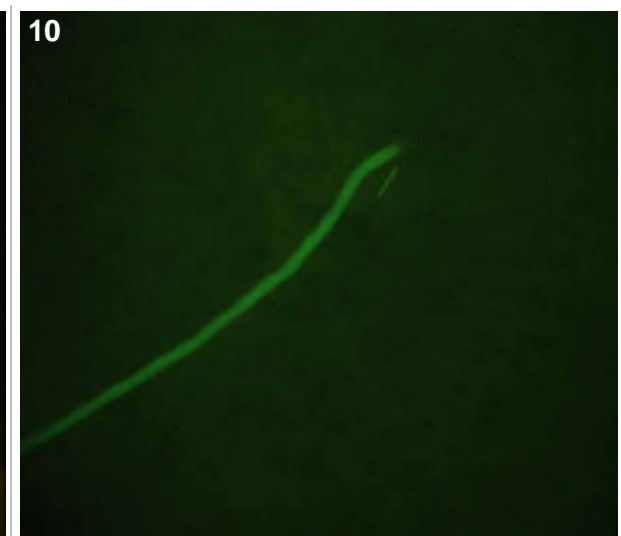
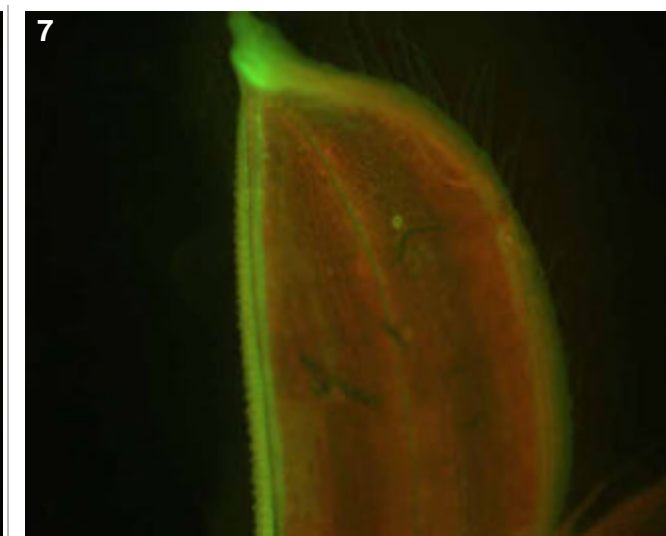
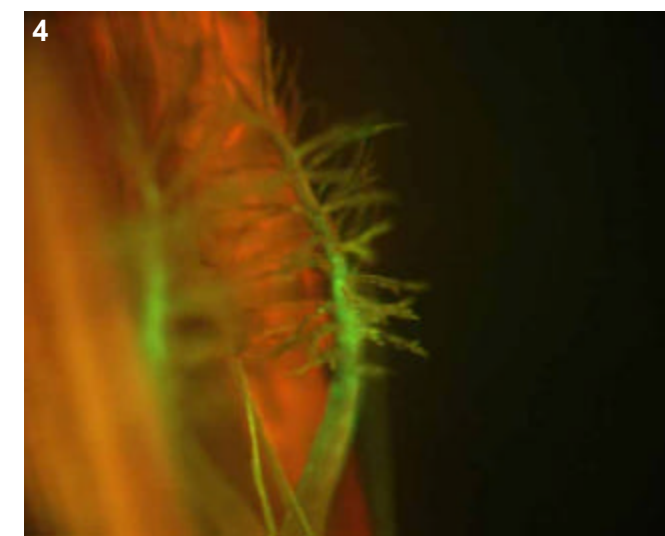
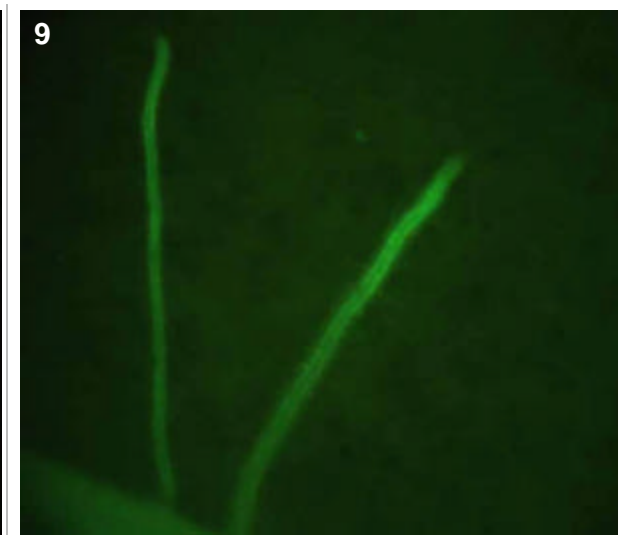
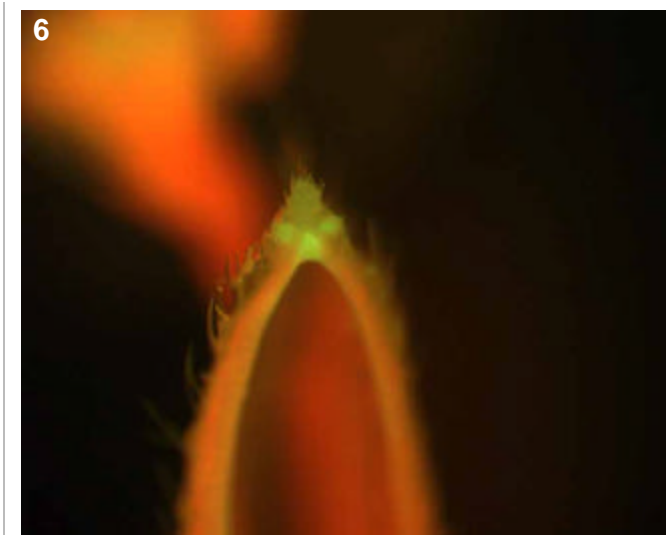
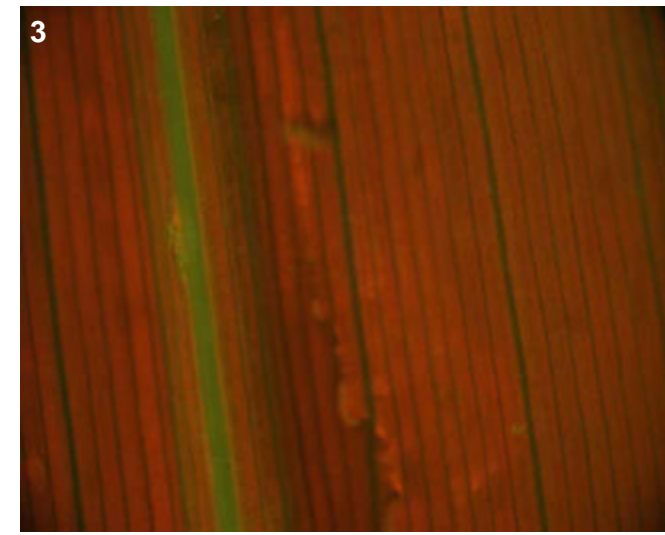
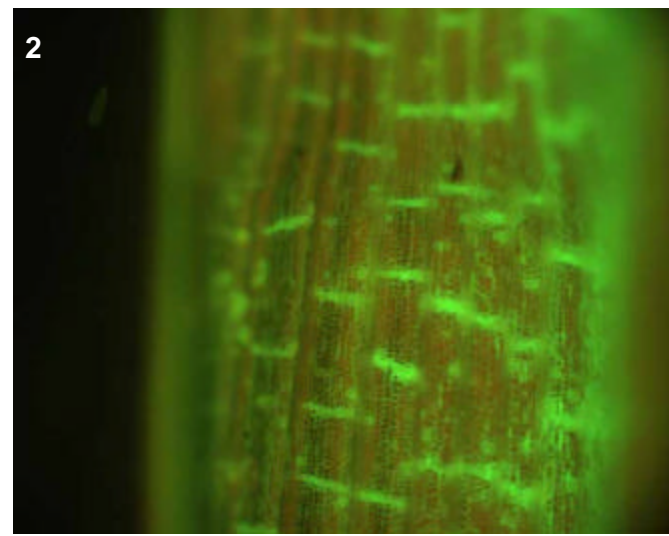
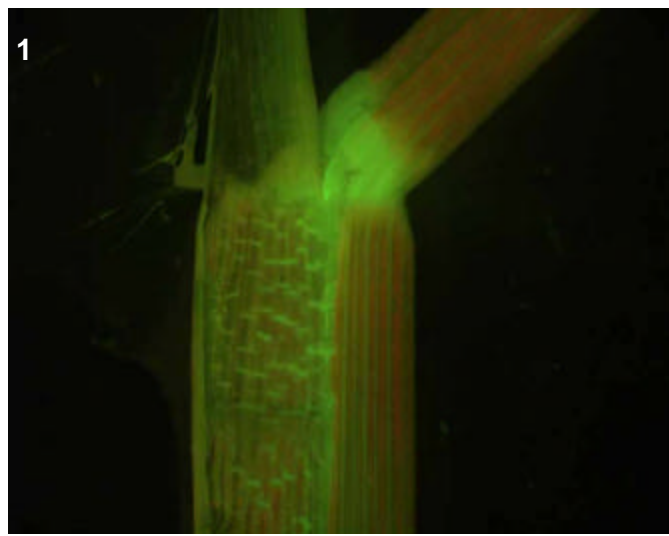
No GFP detected

T1 in greenhouse?

YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 14



T0 comments

Stigma was GFP positive (pics 4 and 5) in only half of the flowers so be careful to check this line again in the next generation to verify the pattern.

T1 seed comments

T1 seedling comments

Bright roots, it crowns it appears epidermal or root cap (pic 8) while in lats (pics 9-10) it looks vascular. Expression in collar (pic 11) is faint.

Genotype: ARG A08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

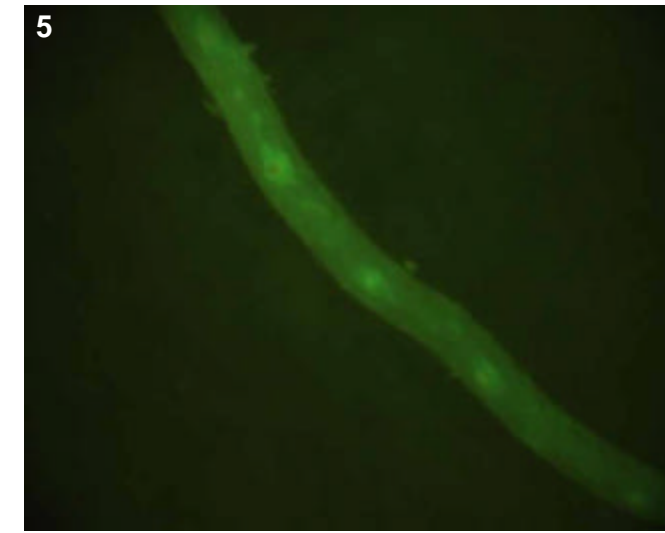
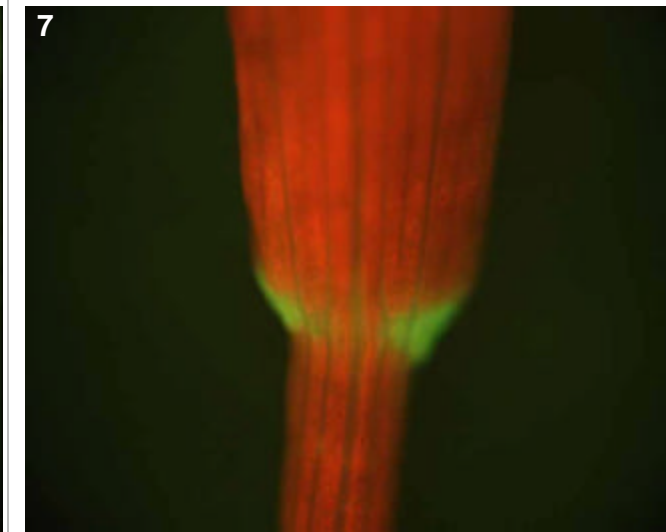
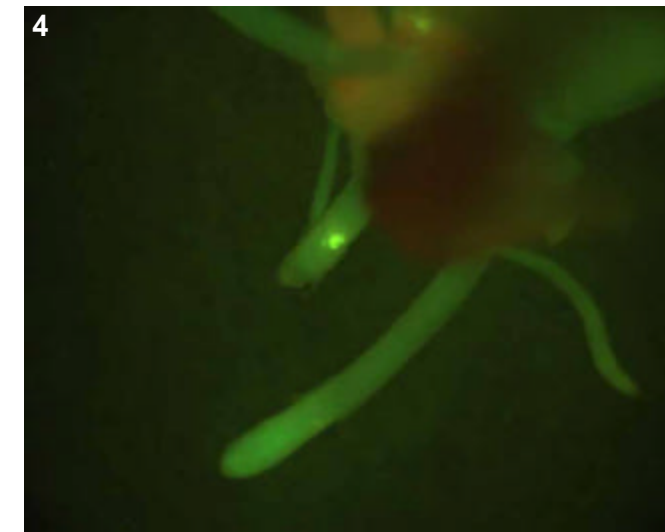
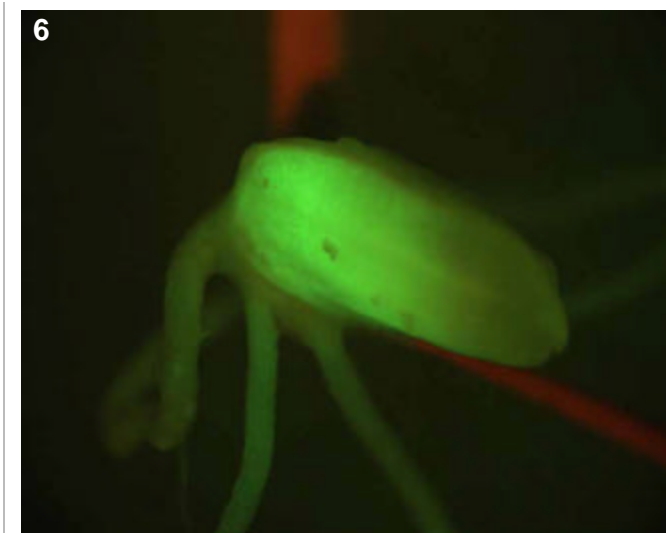
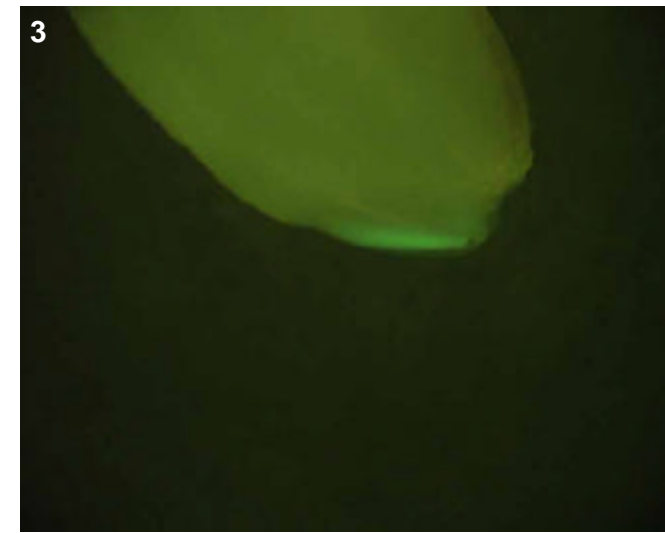
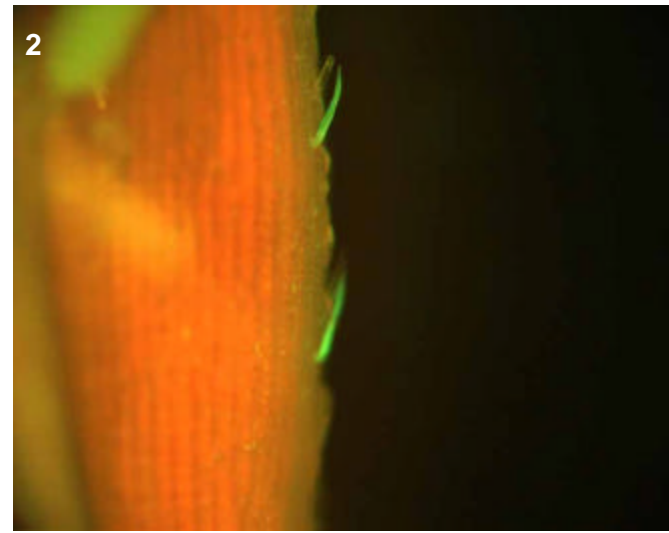
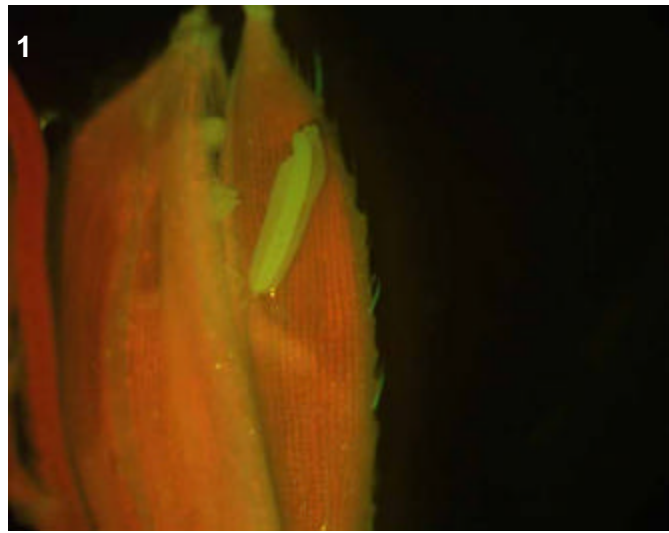
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 2 GFP+ plants

Confocal?

Number T2 seed produced: 13



T0 comments

The large trichomes of the flower.

T1 seed comments

1/5 seeds had faint expression in the embryo.

T1 seedling comments

Quite general expression throughout the root (pics 4-5).

Genotype: ARG C12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

All of the pictures for this line were lost. Expression was faint in the collar, sheath vascular and tips of lemma/palea.

T1 seed comments

T1 seedling comments

Genotype: ARH A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

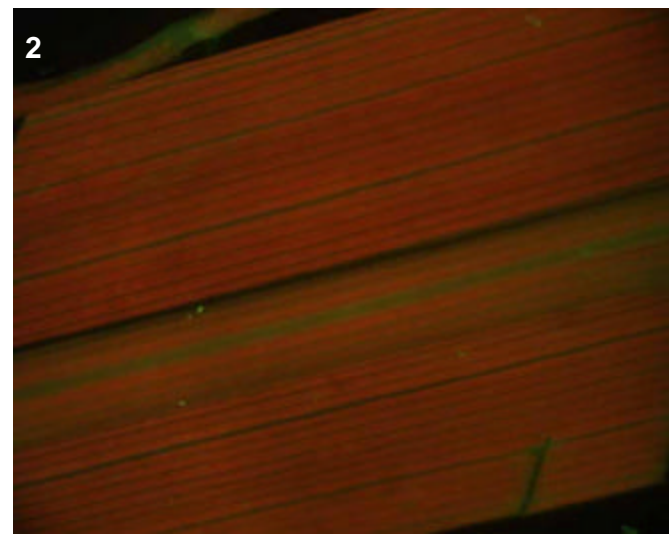
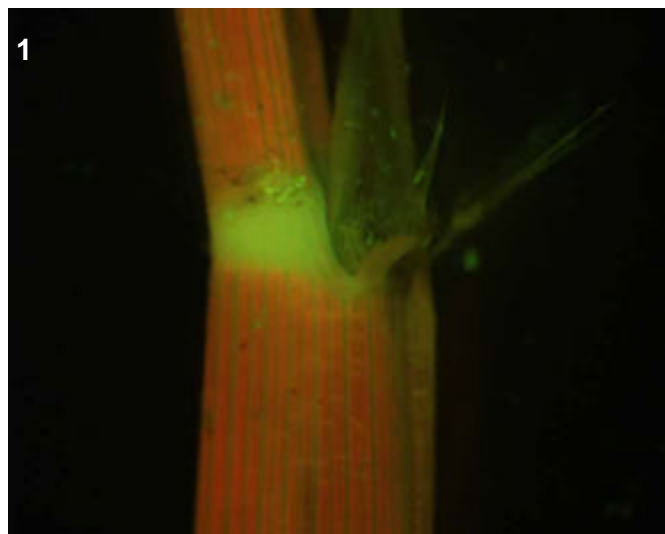
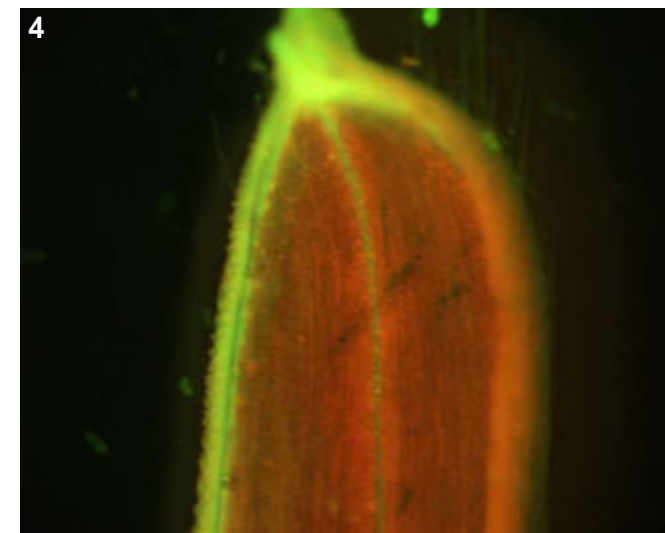
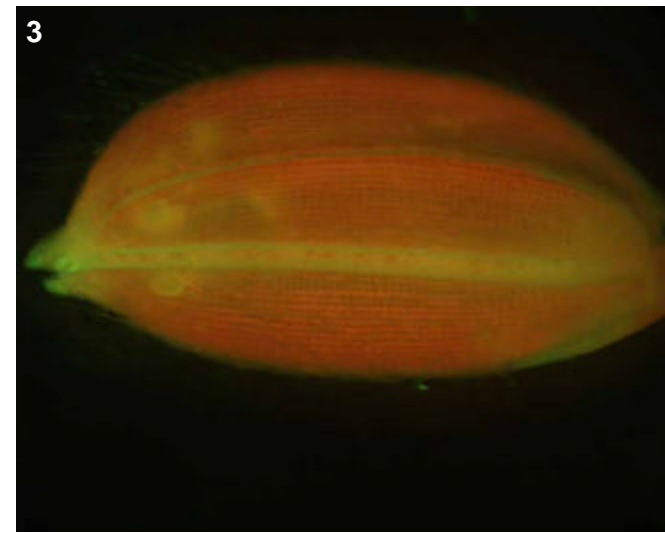
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright collar, but no expression in the sheath vascular.

T1 seed comments

T1 seedling comments

Genotype: ARH B07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

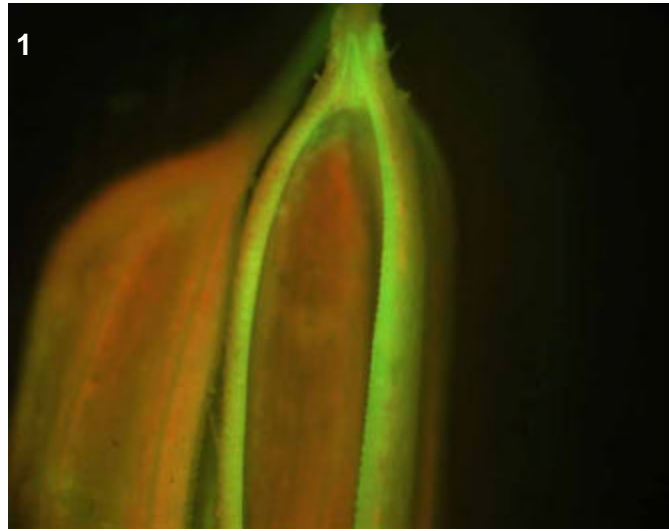
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Tetraploid line, with leaf and floral vascular expression.

T1 seed comments

T1 seedling comments

Genotype: ARH D10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

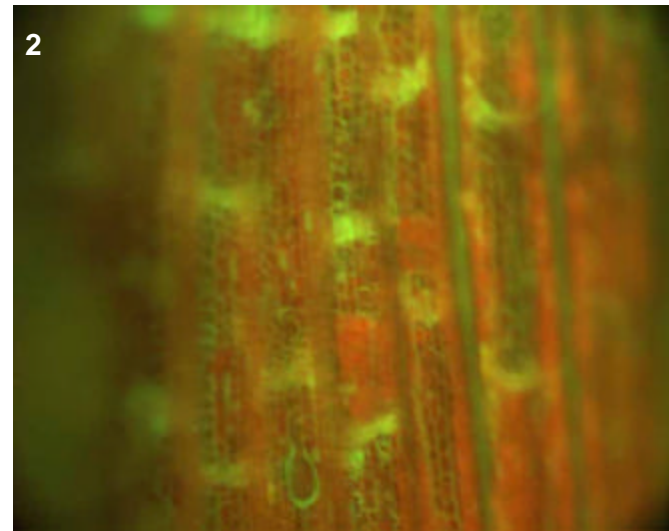
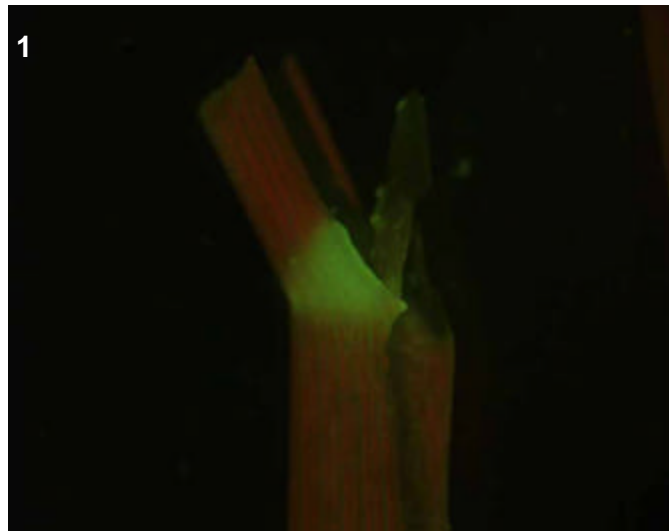
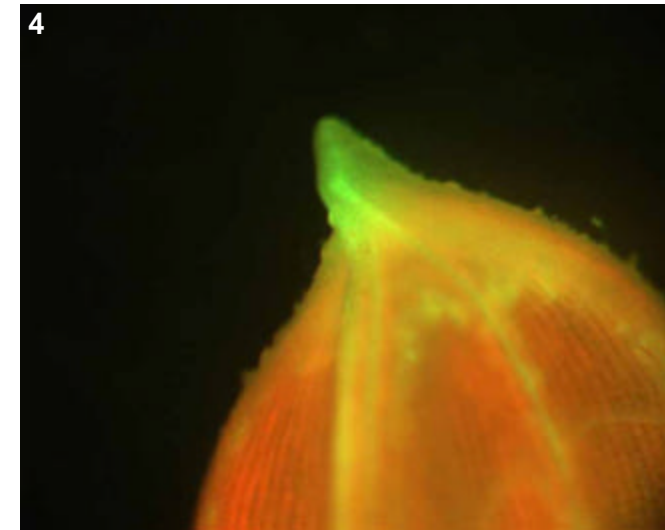
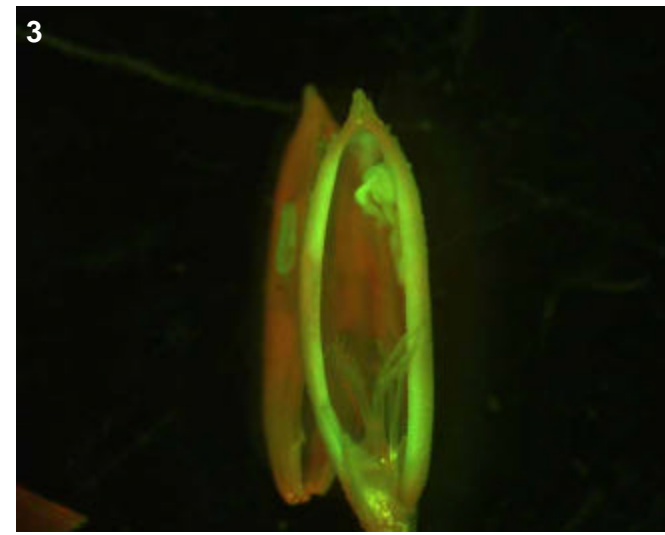
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARH H09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

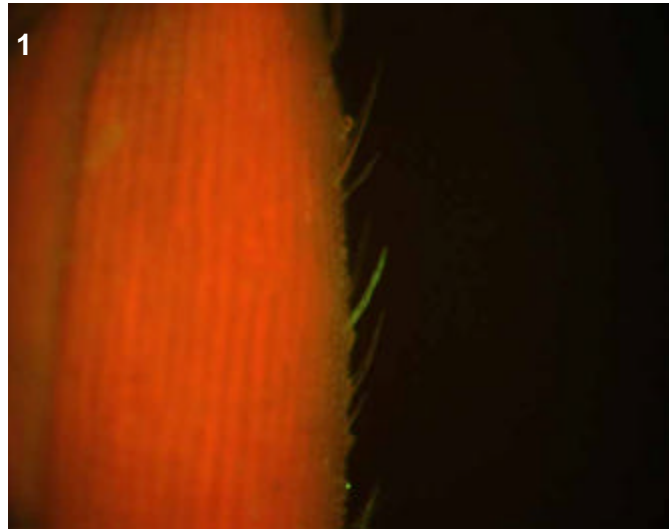
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Scattered trichome expression in the flower.

T1 seed comments

T1 seedling comments

Genotype: ARI A07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

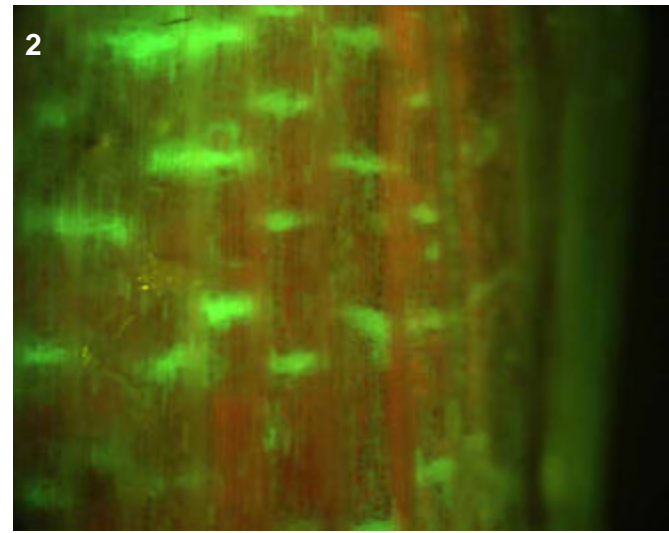
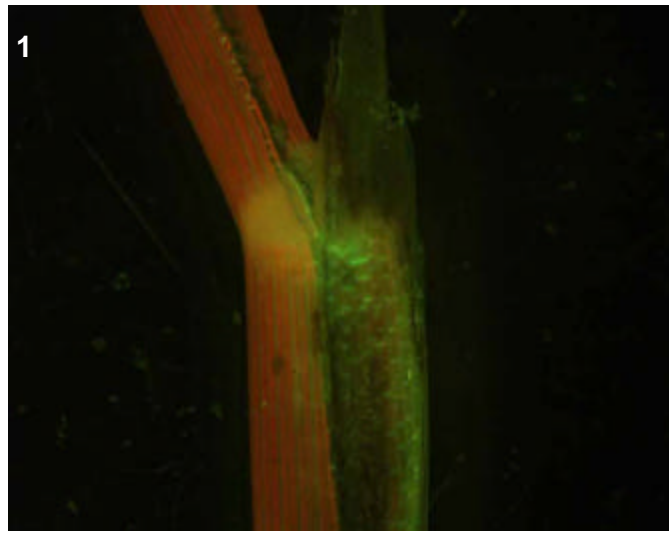
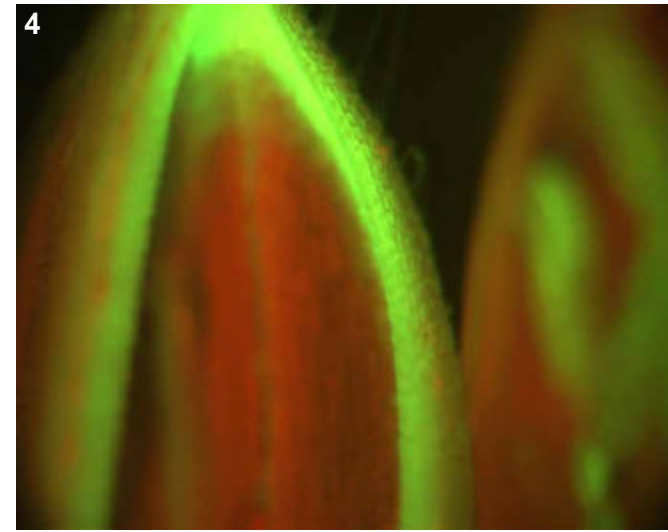
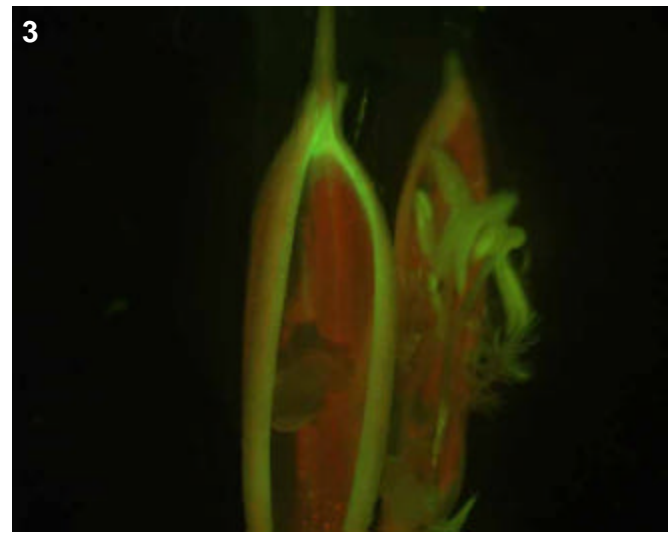
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

This line may be tetraploid by the looks of the flower in picture 3.

T1 seed comments

T1 seedling comments

Genotype: ARI B12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-6
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

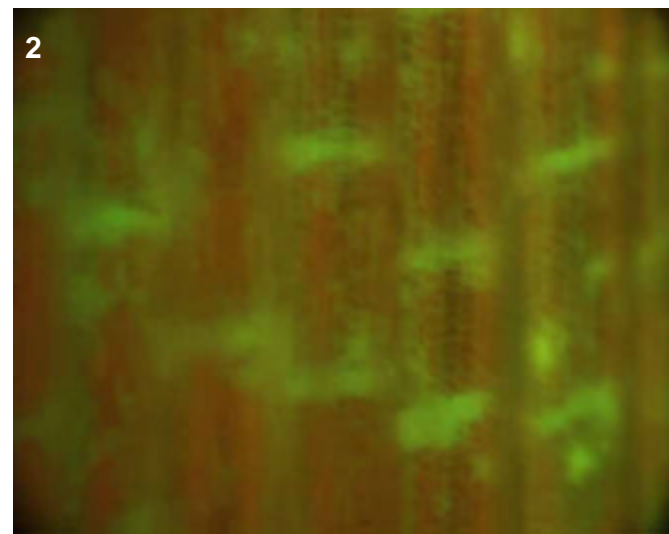
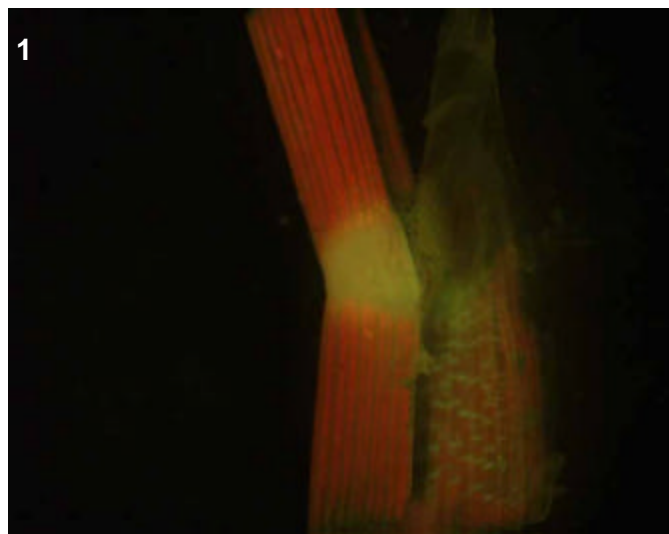
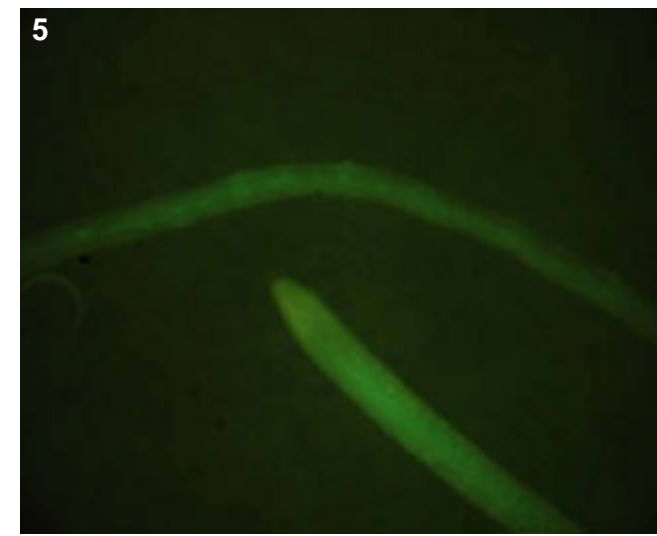
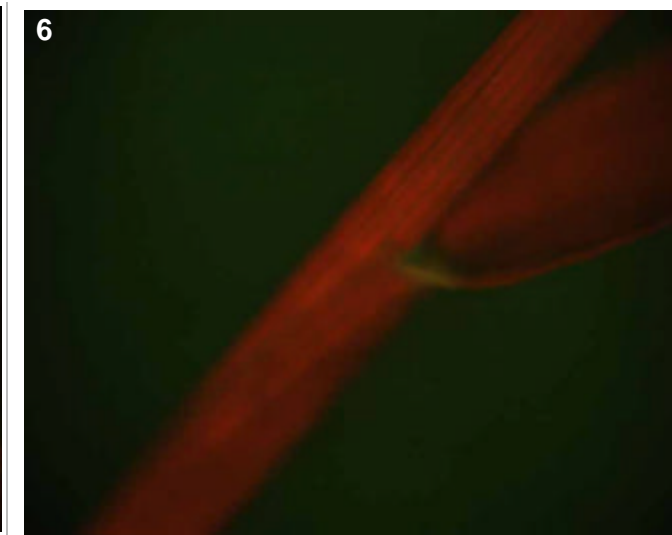
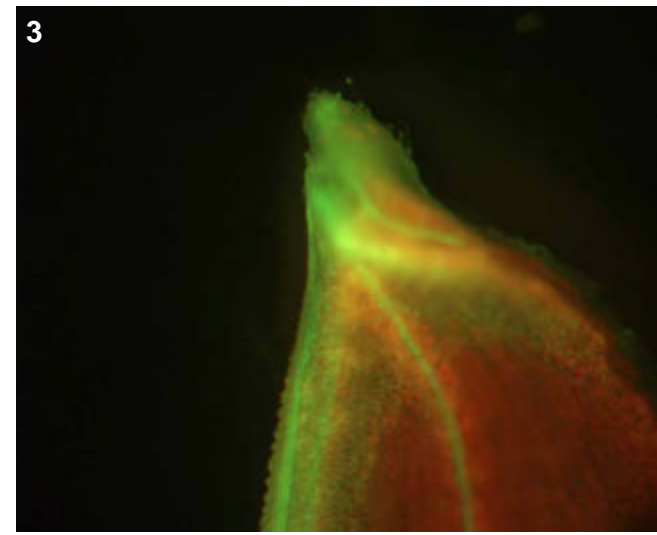
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 69



T0 comments

T1 seed comments

T1 seedling comments

Expression was brightest in the roots (pics 4-5) while the collar expression was faint (pic 6).

Genotype: ARI C08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

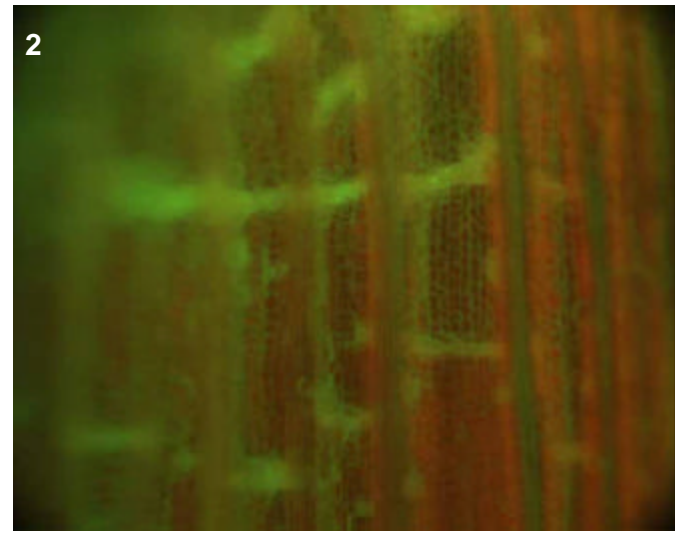
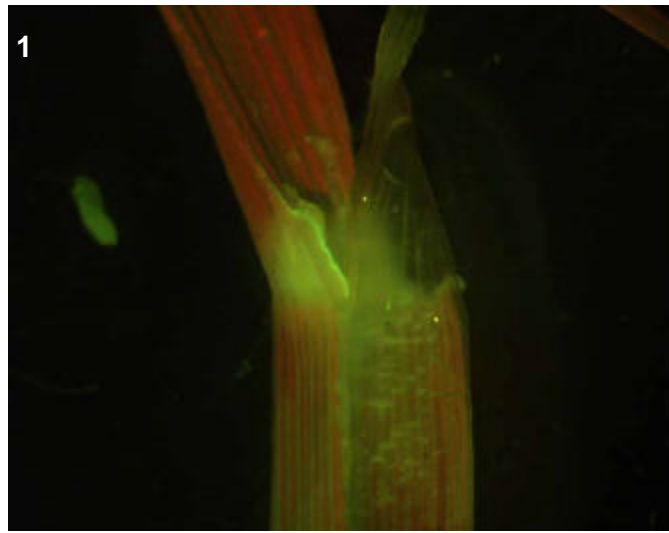
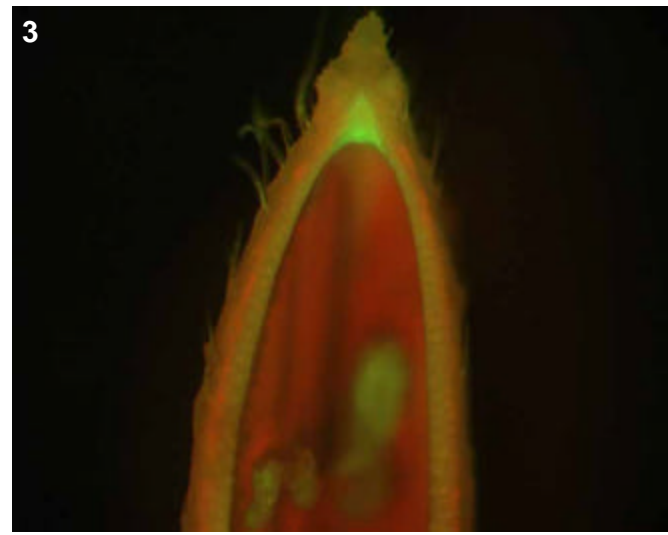
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARI F01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

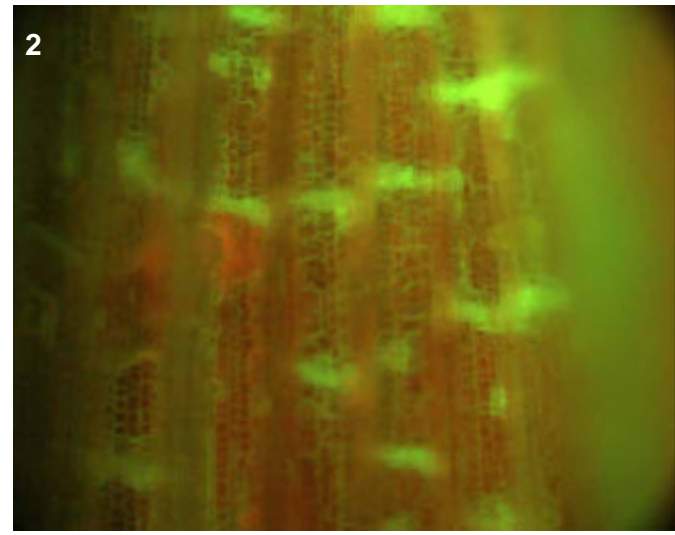
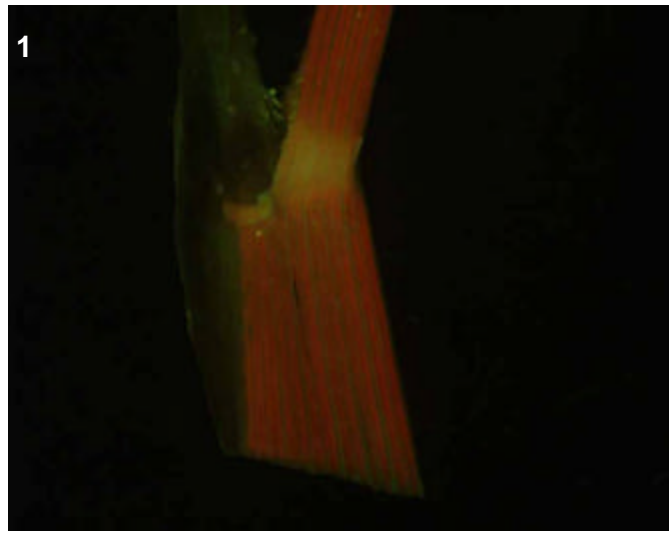
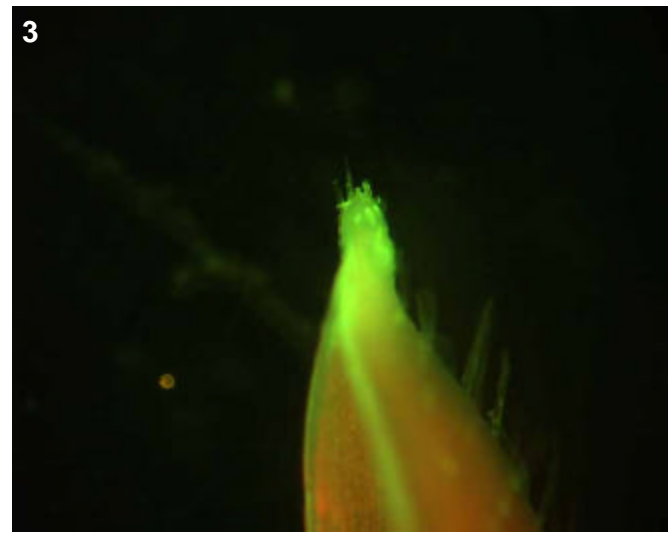
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARI H04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-9
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

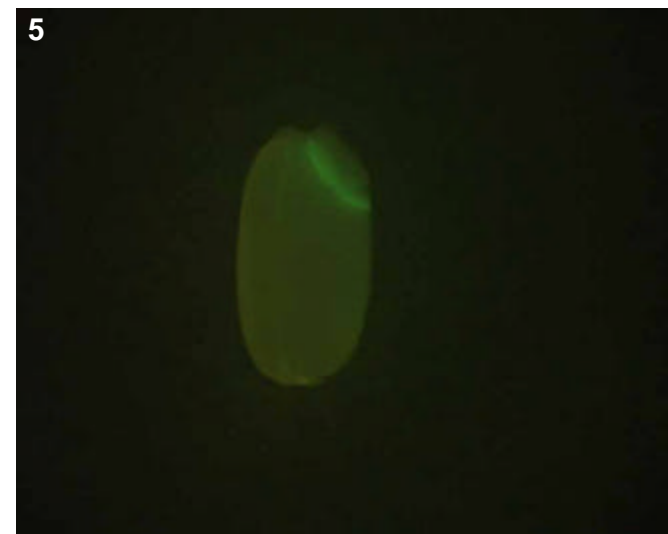
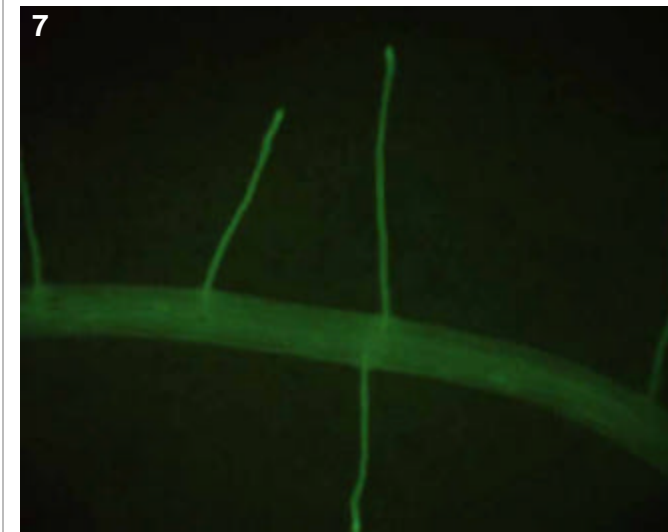
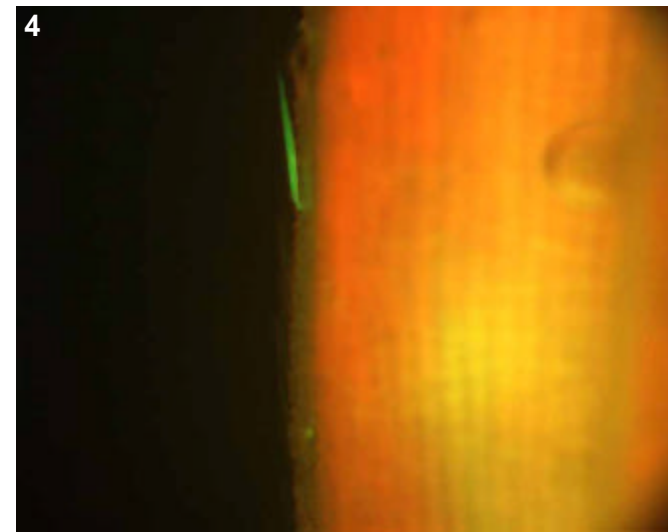
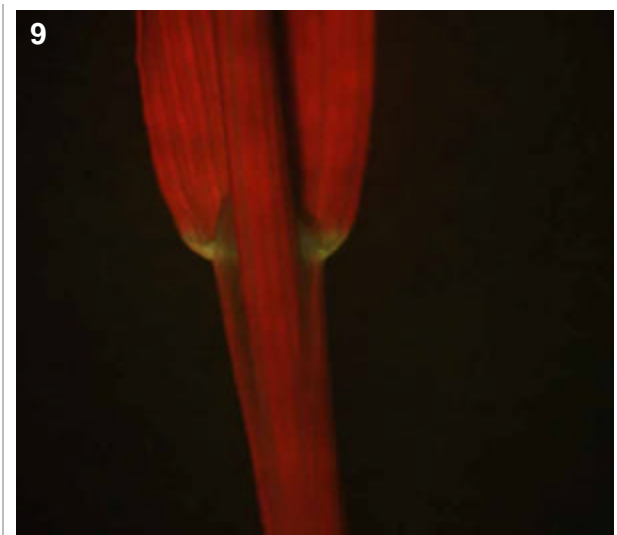
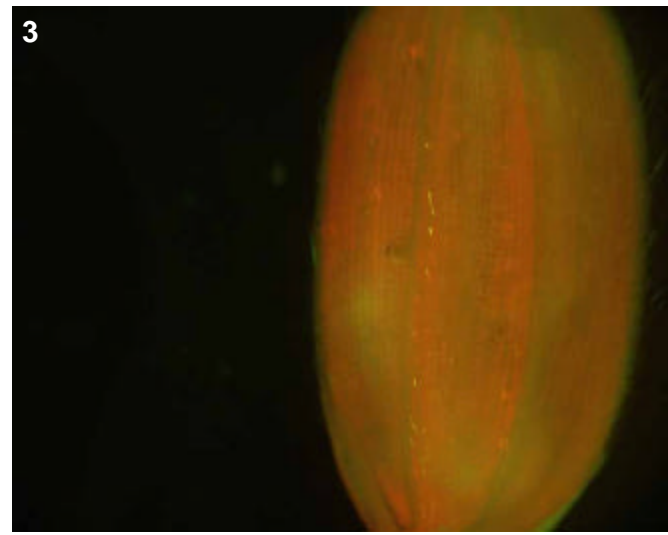
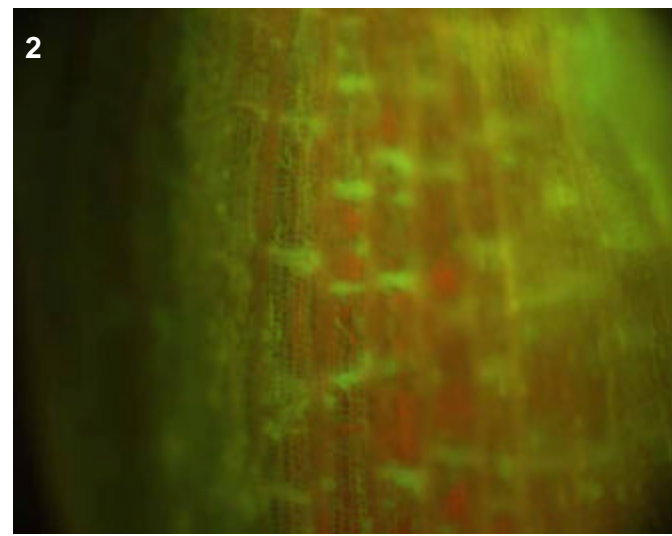
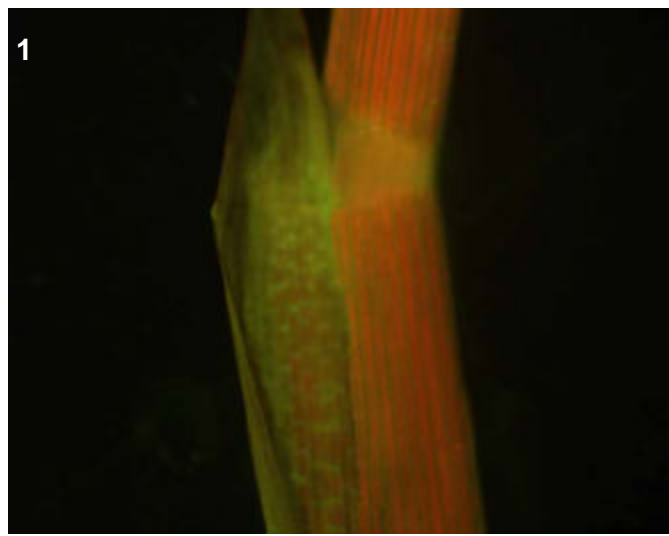
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 101



T0 comments

The floral trichome expression (pics 3 and 4) was quite scattered.

T1 seed comments

3/5 seeds had medium expression in the scutellum (pic 5).

T1 seedling comments

Looks like an epidermal pattern in roots, at least for the crown roots (pic 8).

Genotype: ARJ A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
T1 seed/seedling:
T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

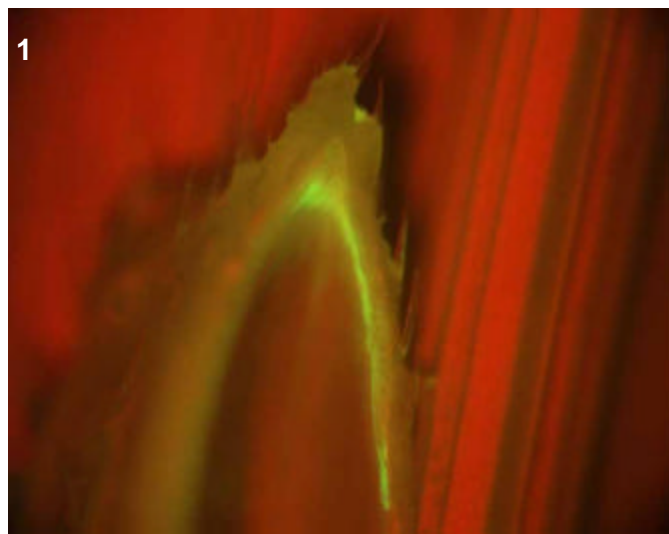
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARJ E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

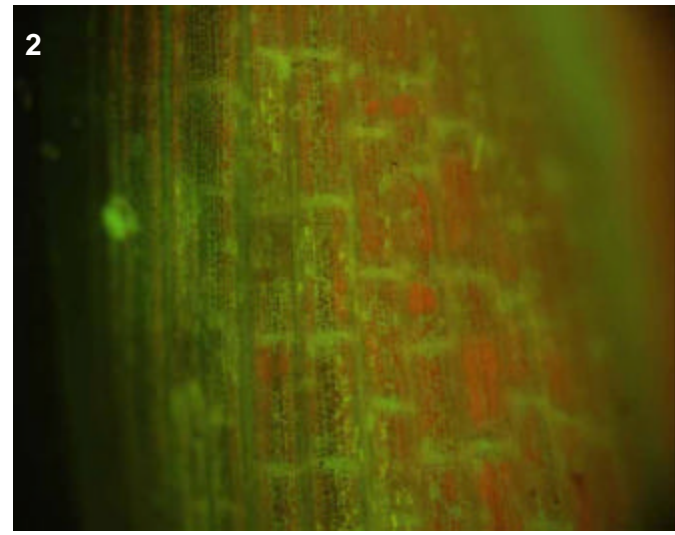
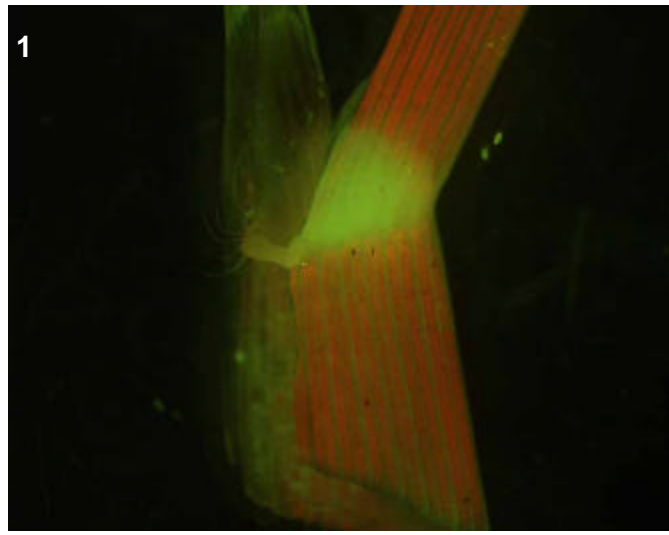
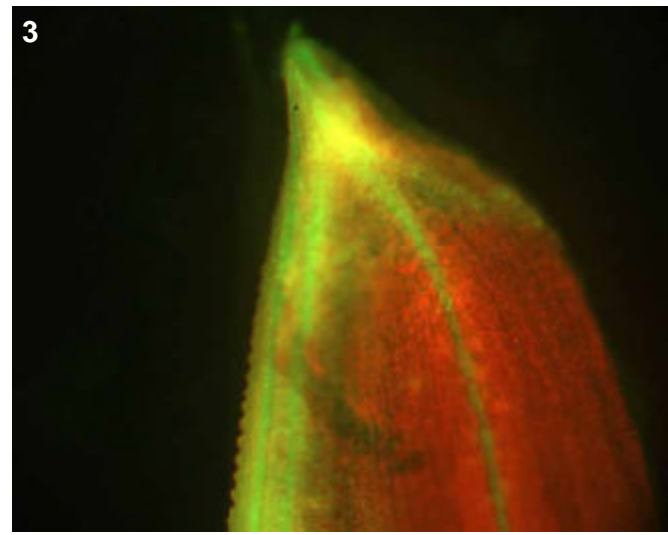
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARJ F04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

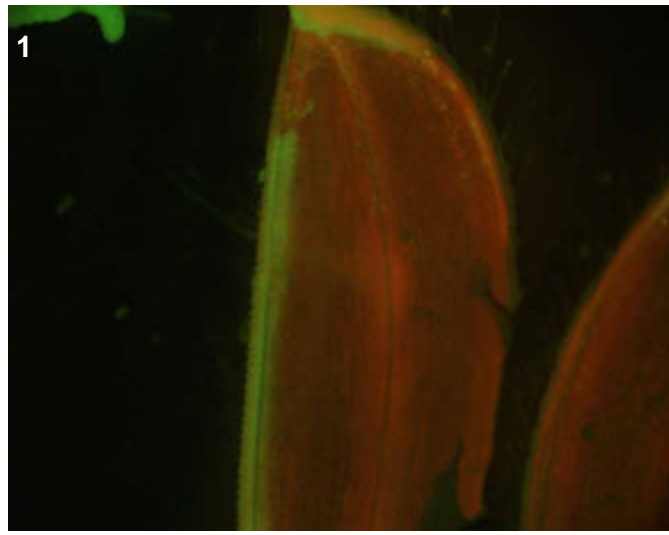
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Very faint sheath vascular and patchy floral vascular (pic 1).

T1 seed comments

T1 seedling comments

Genotype: ARJ G03

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

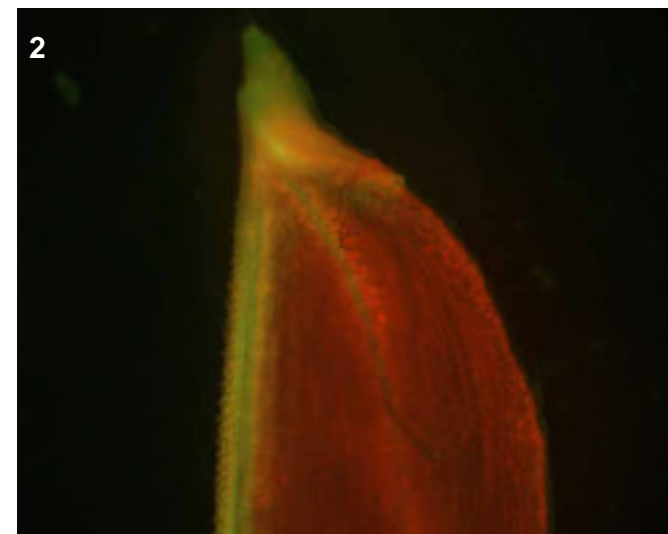
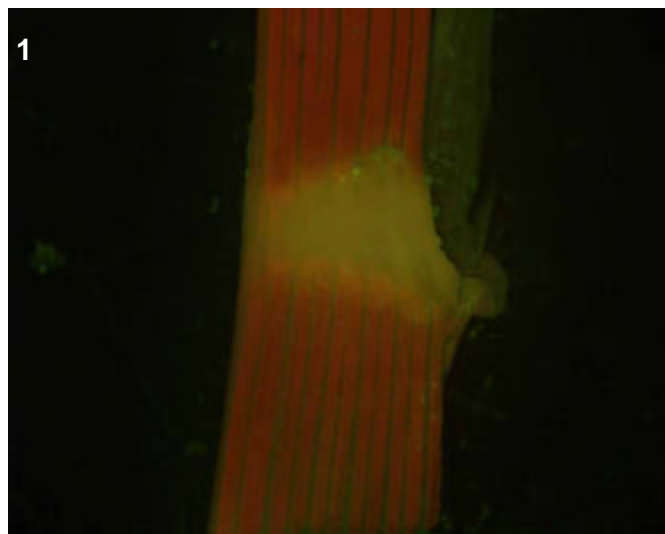
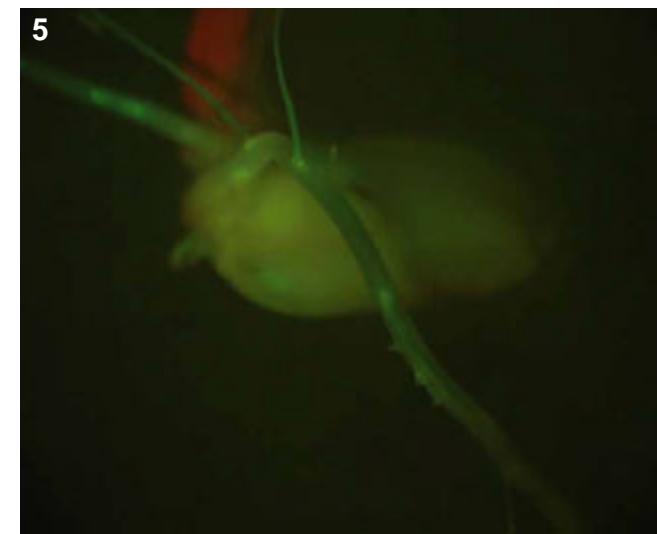
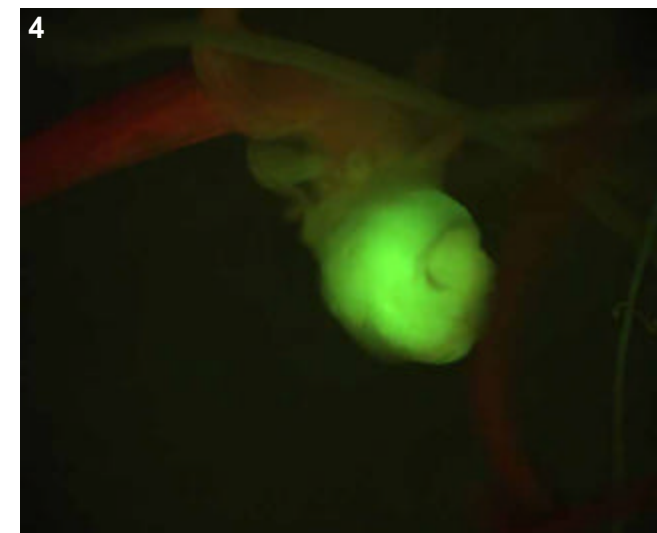
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 27



T0 comments

T1 seed comments

1/5 seeds had medium expression in the scutellum (pic 3).

T1 seedling comments

No good picture of roots taken, but from picture 5 it looks like a vascular pattern.

Genotype: ARJ G08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-10
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

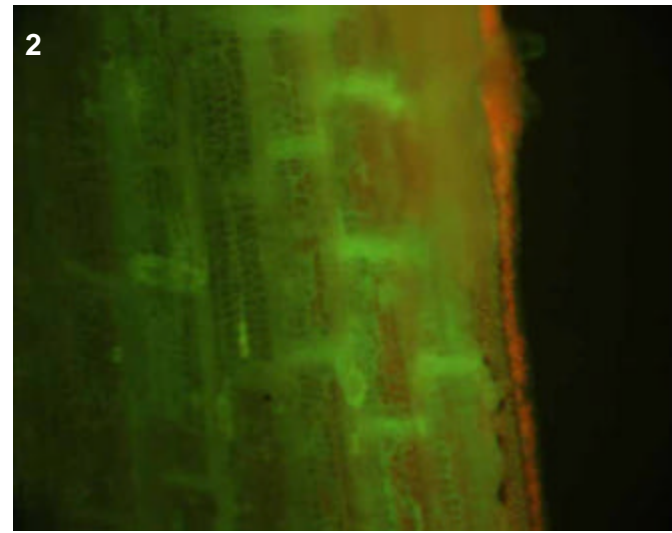
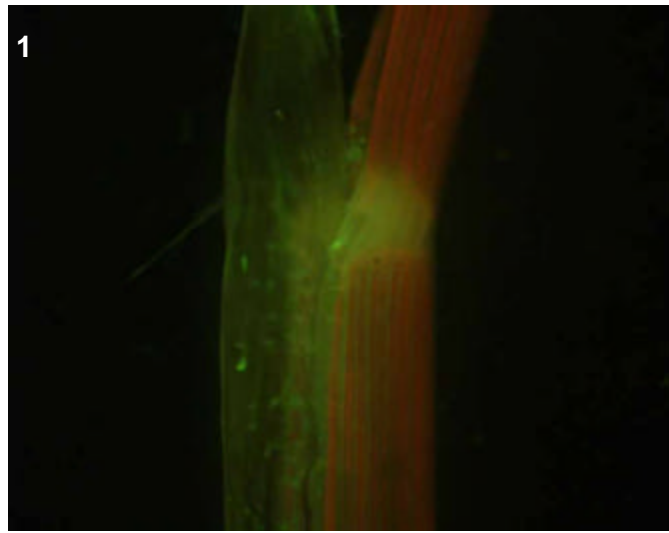
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 43



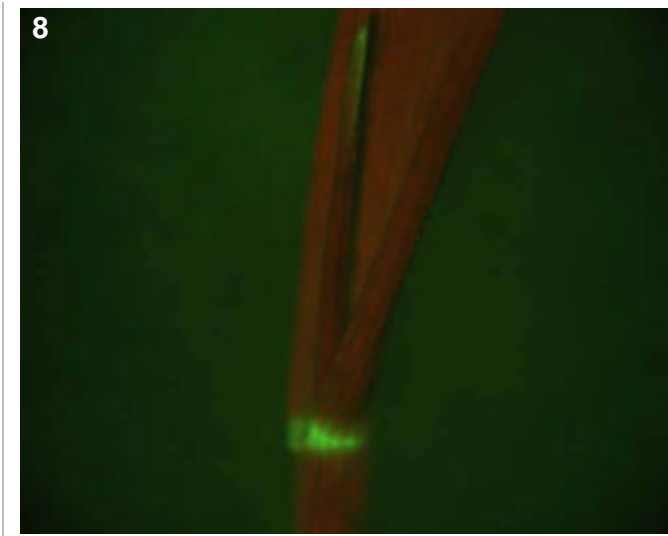
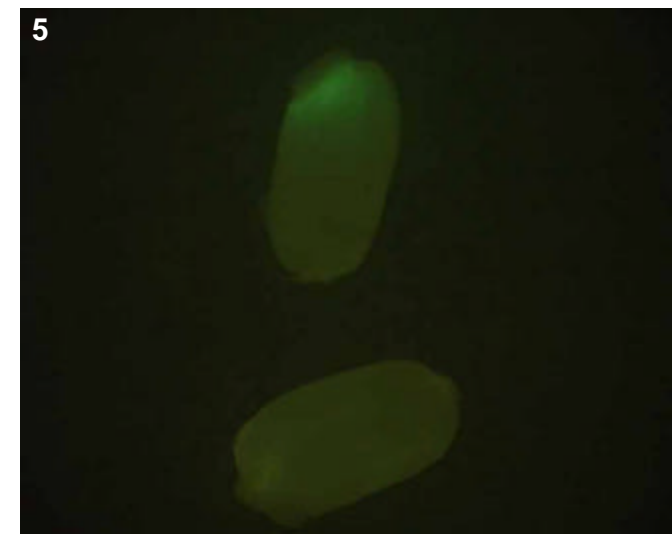
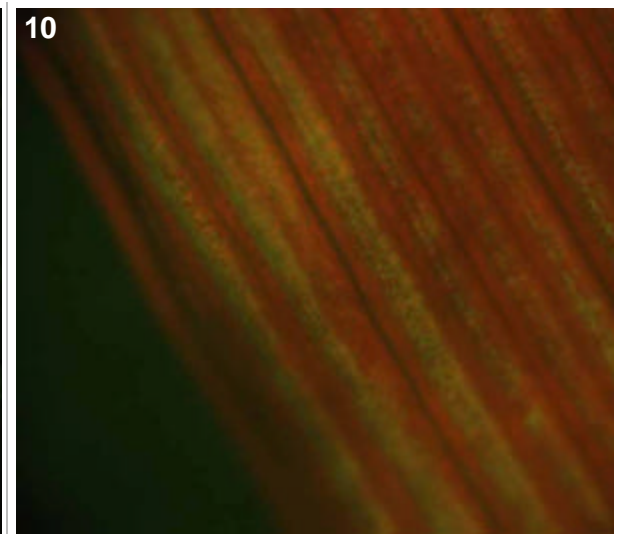
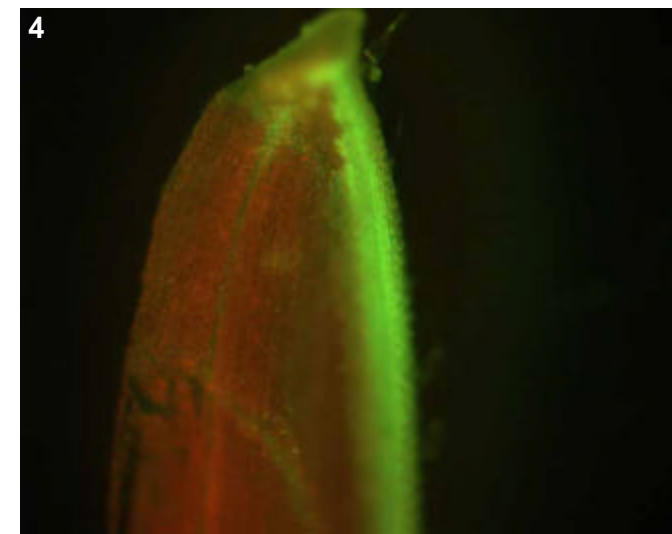
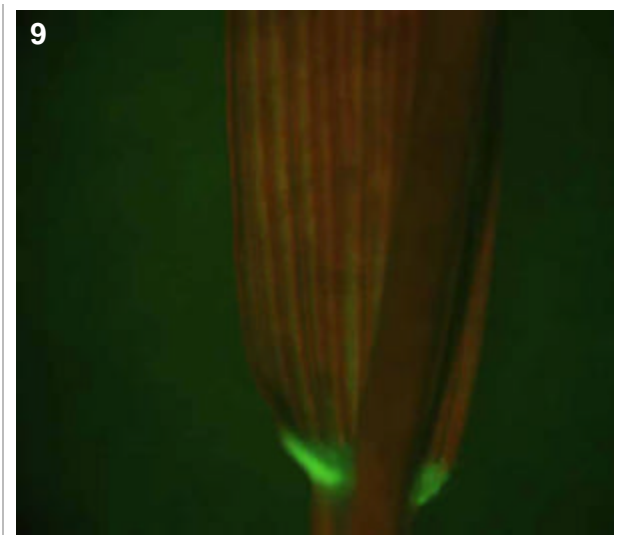
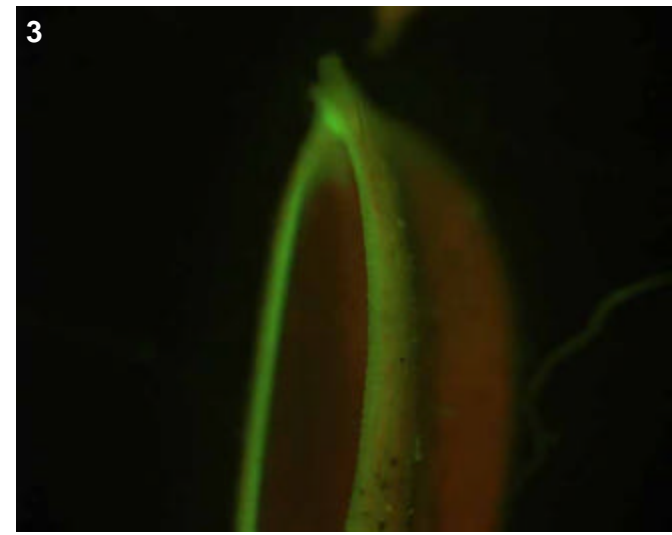
T0 comments

T1 seed comments

Bright expression in embryo of 4/5 seeds

T1 seedling comments

Note the bright "stripes" of expression on leaf tissue (pics 9-10), I'm not sure what cell-type this is but it doesn't look vascular. Perhaps mesophyll tissue between the leaf veins?



Genotype: ARJ G10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-6
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

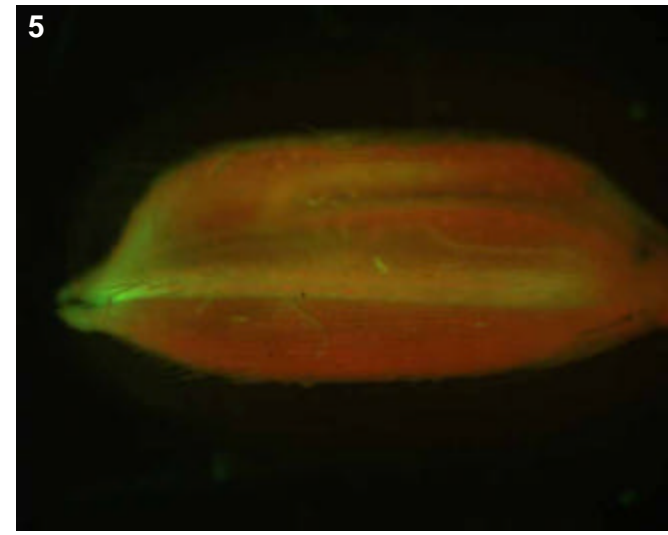
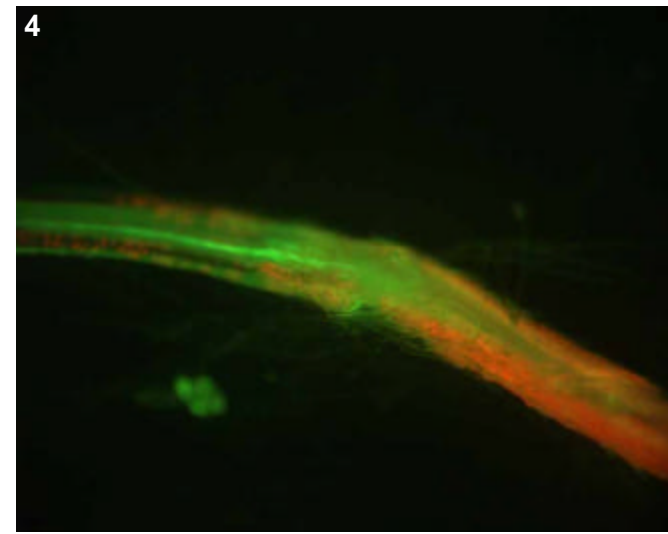
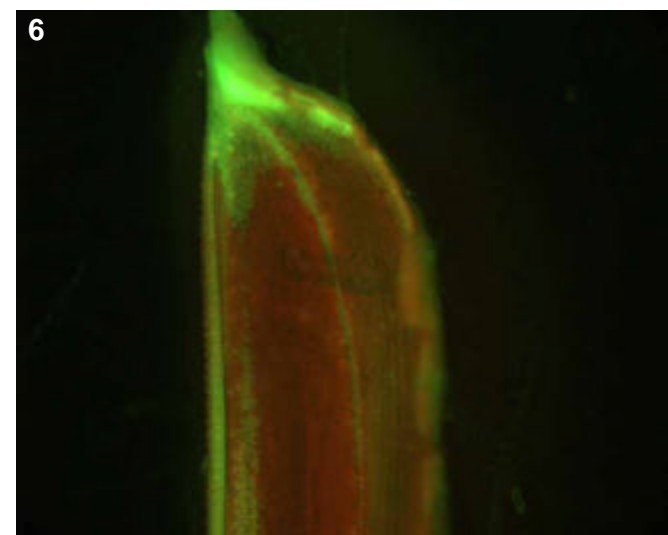
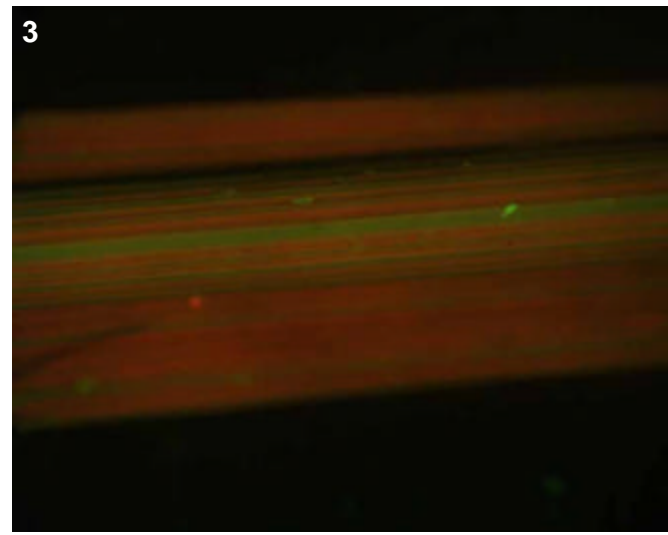
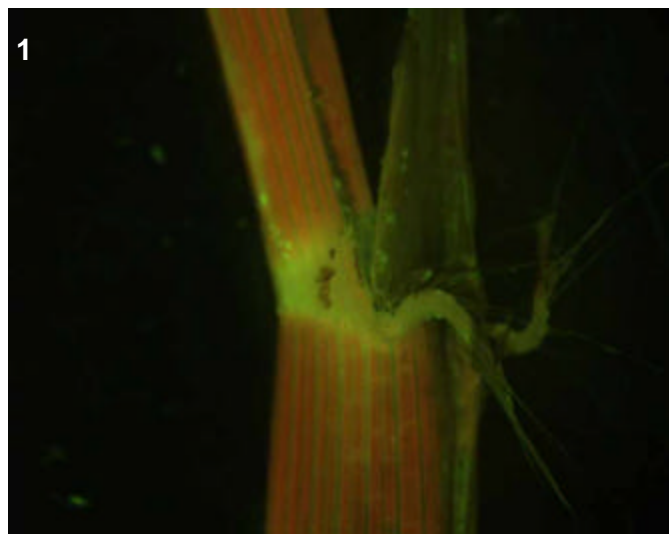
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A strong vascular line, particularly in the flower.

T1 seed comments

T1 seedling comments

Genotype: ARJ H02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

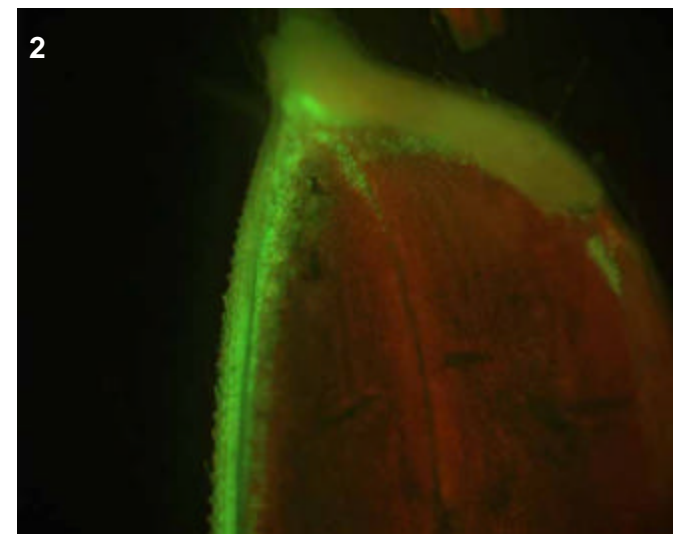
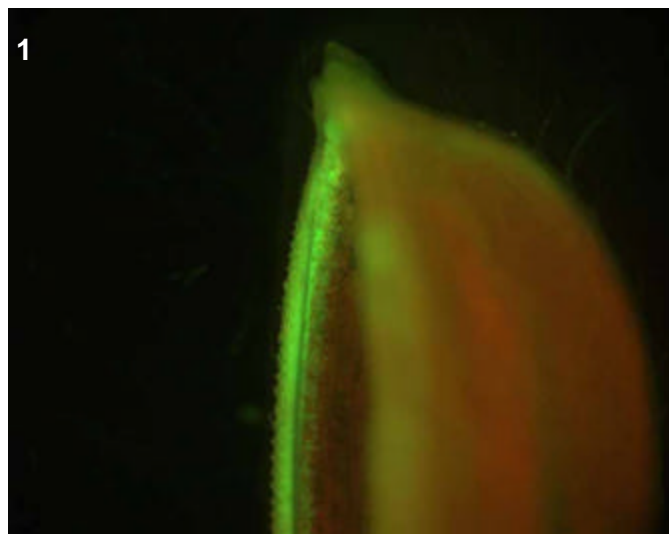
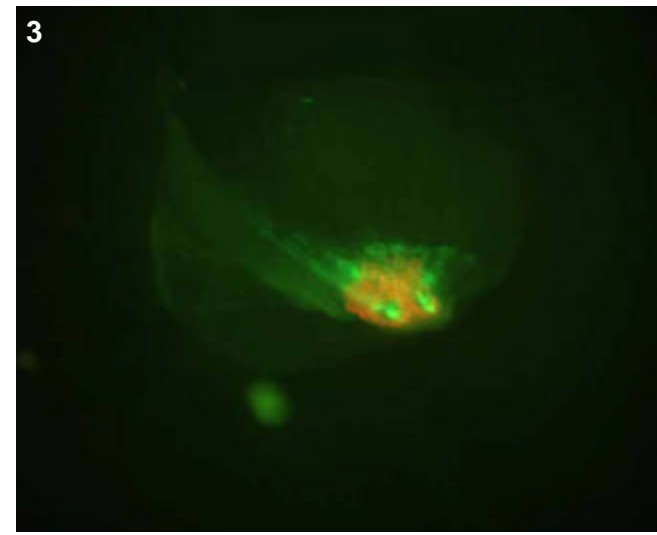
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in the sheath and floral vascular, although the sheath picture was lost. Also expression in the base of the lodicule, picture 3 shows a lodicule removed from the flower.

T1 seed comments

T1 seedling comments

Genotype: ARK A11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

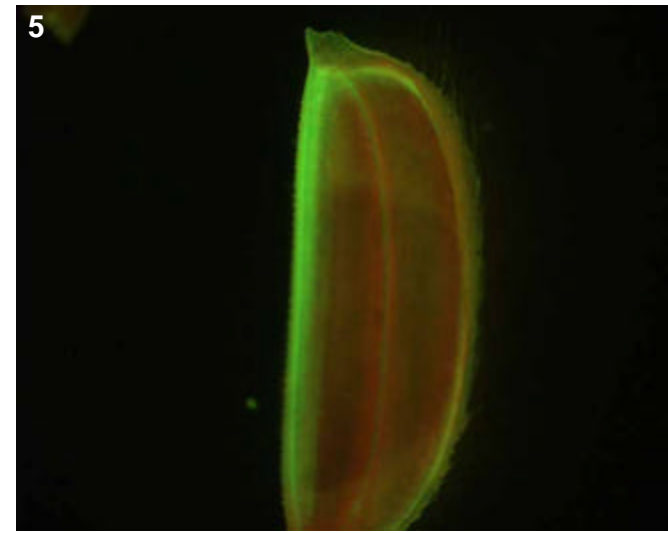
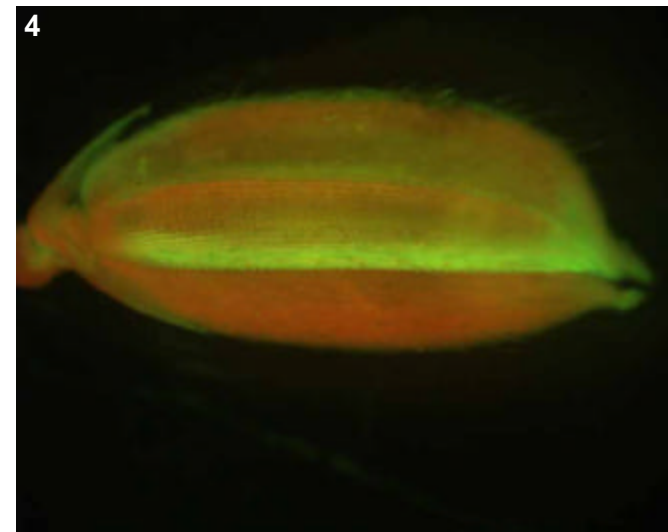
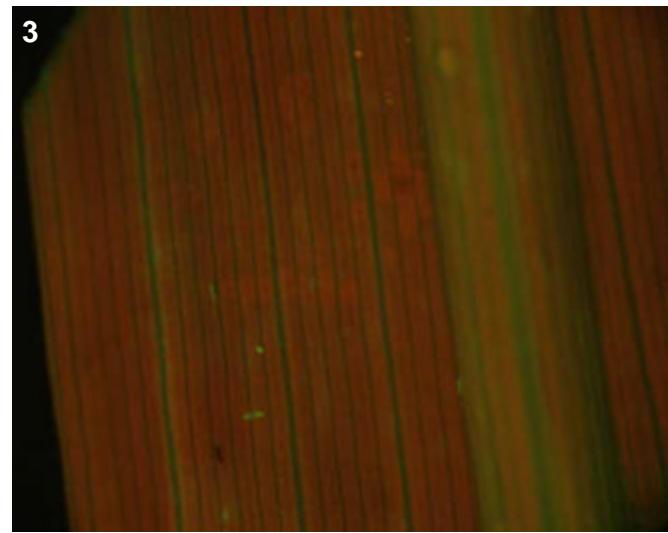
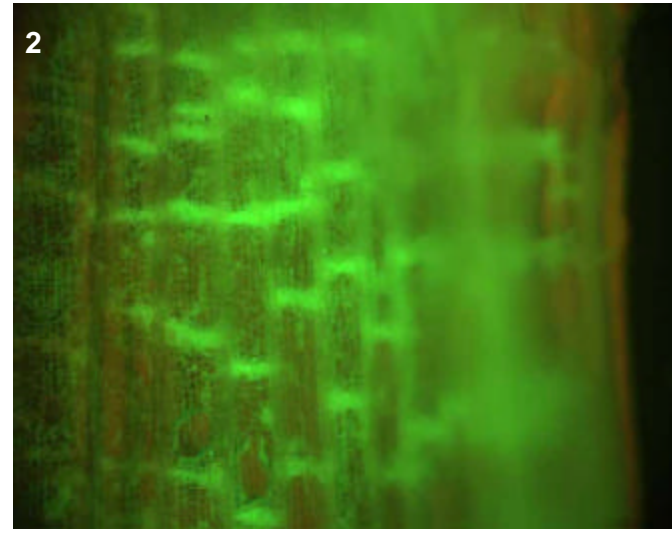
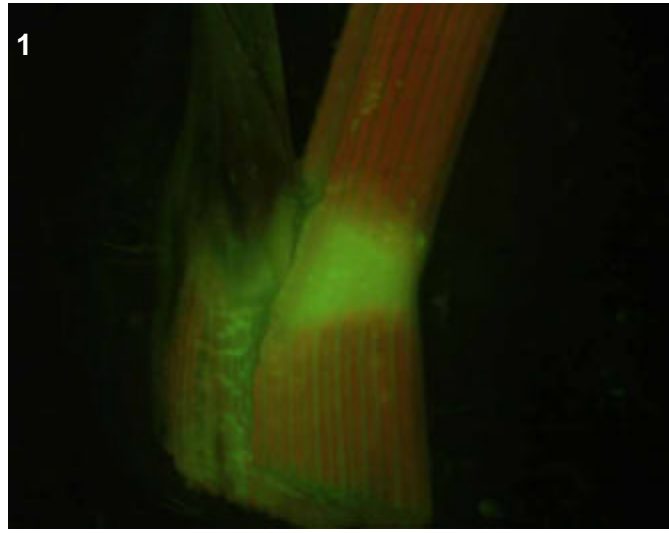
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments
 Bright vascular line

T1 seed comments

T1 seedling comments

Genotype: ARK B11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

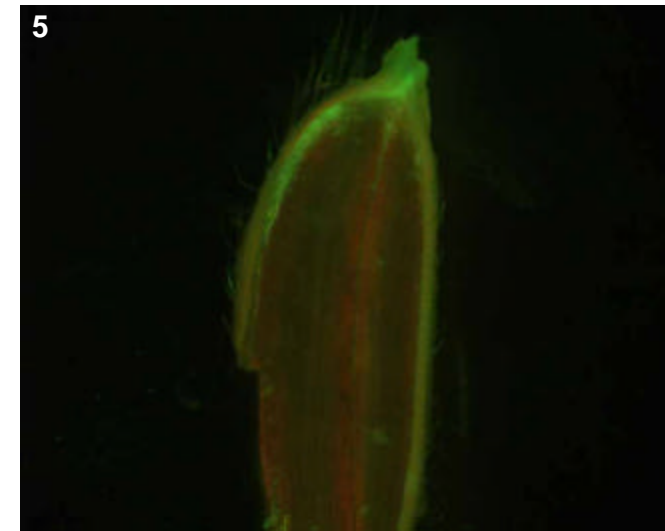
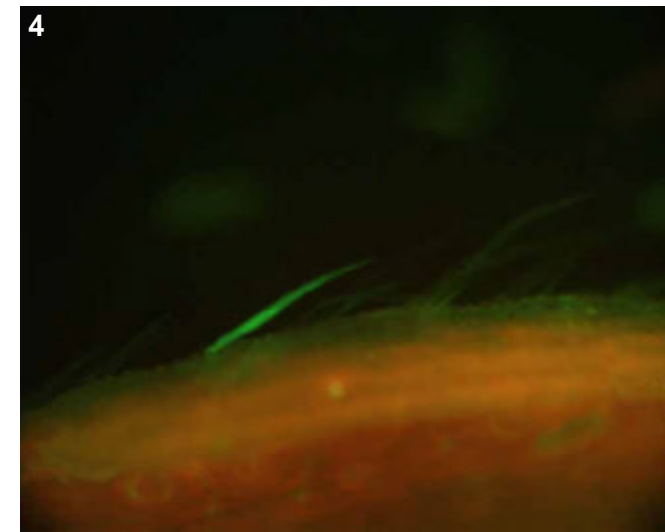
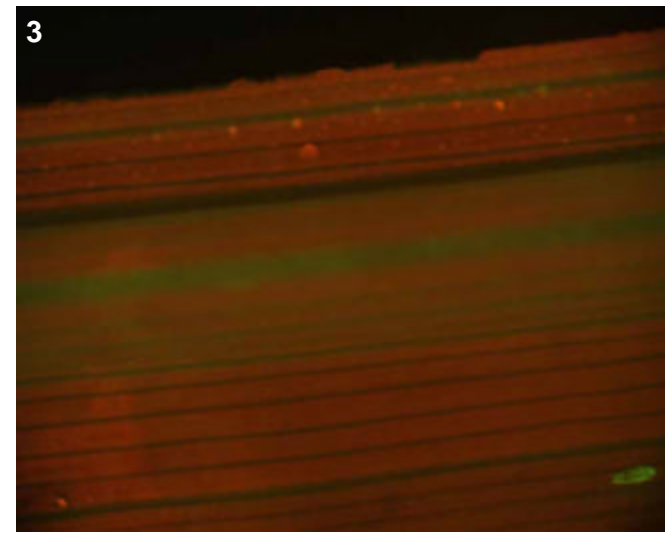
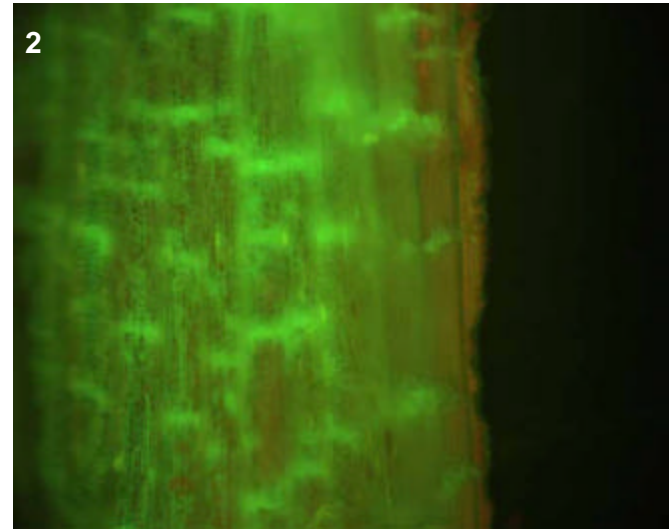
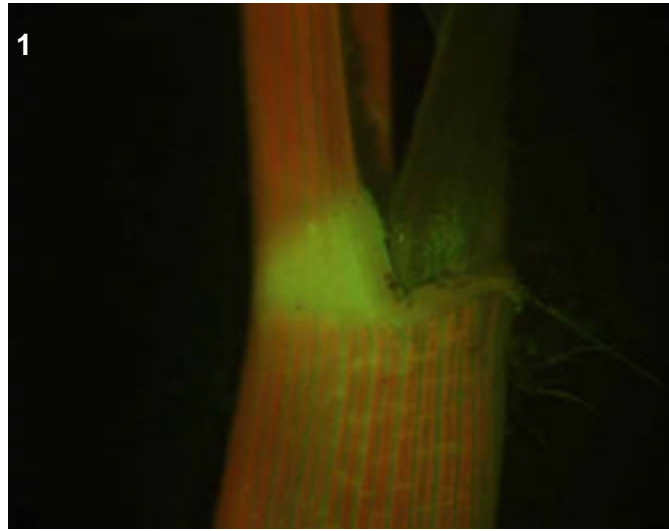
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line, with some floral trichome expression (pic 4).

T1 seed comments

T1 seedling comments

Genotype: ARK C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

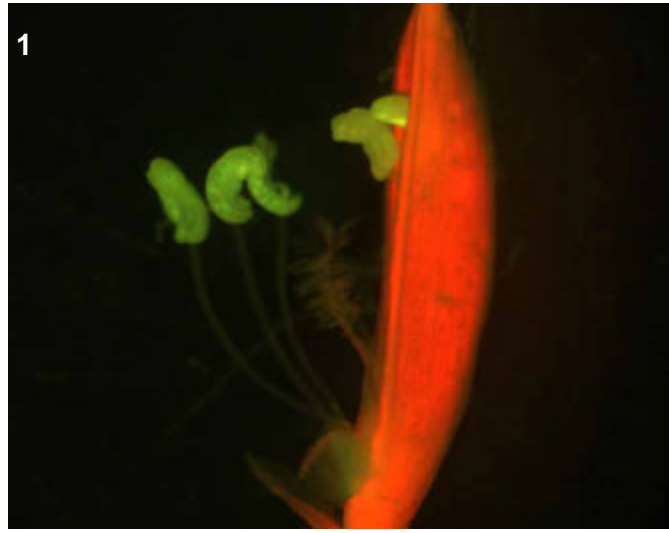
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression specific to the lodicules.

T1 seed comments

T1 seedling comments

Genotype: ARK E06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

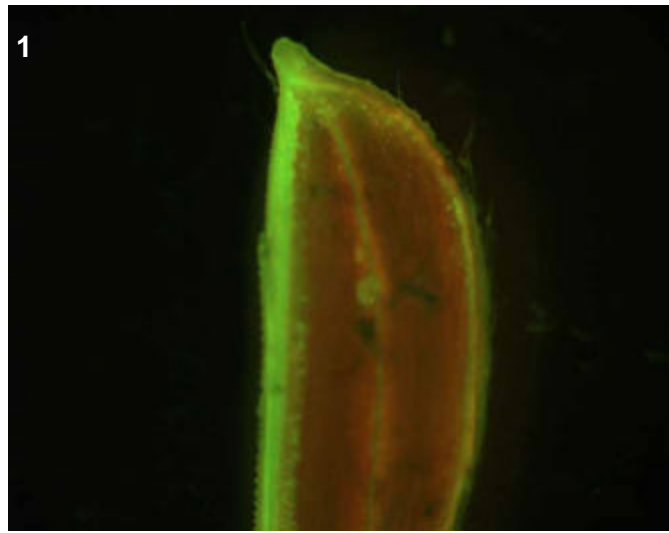
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

A floral vasculature-specific line.

T1 seed comments

T1 seedling comments

Genotype: ARK G01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

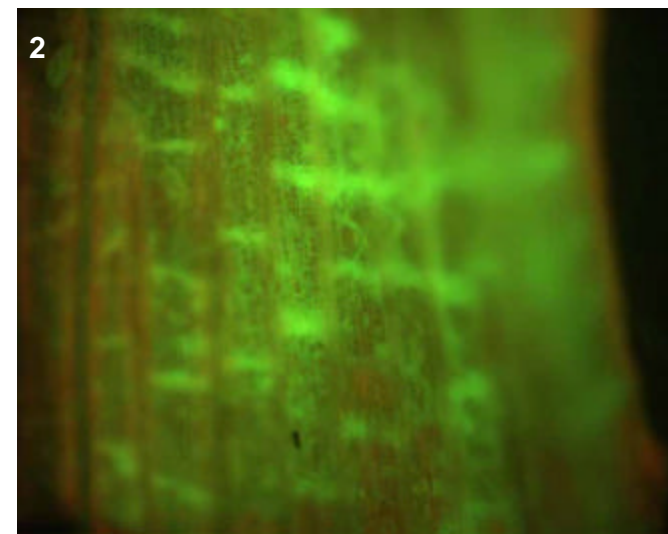
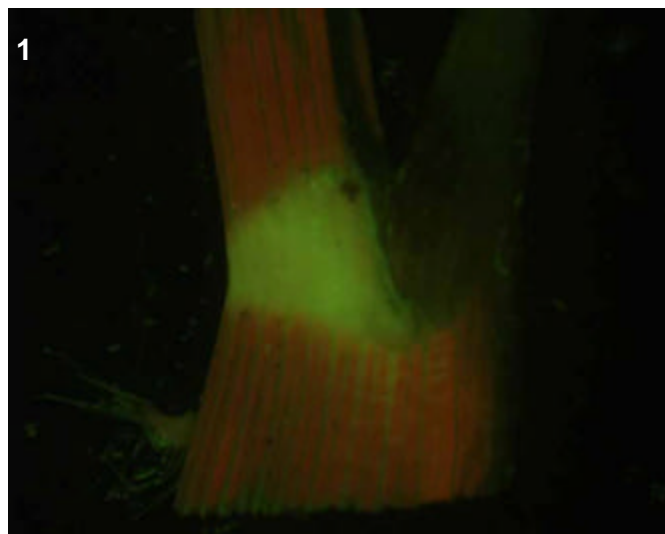
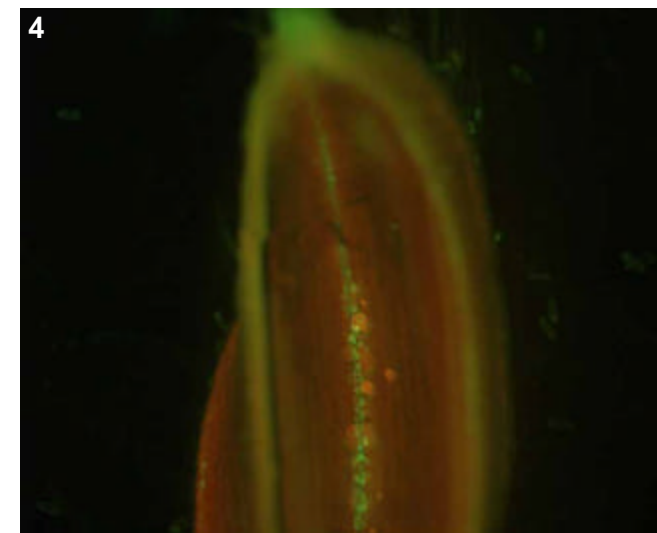
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Genotype: ARK H11

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-7
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

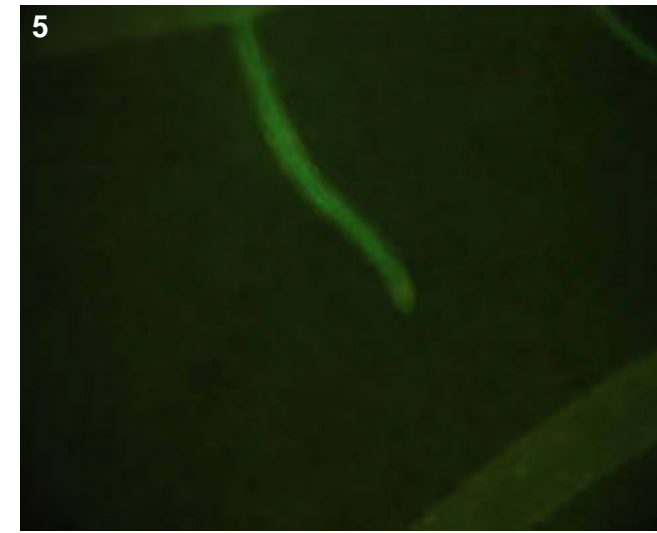
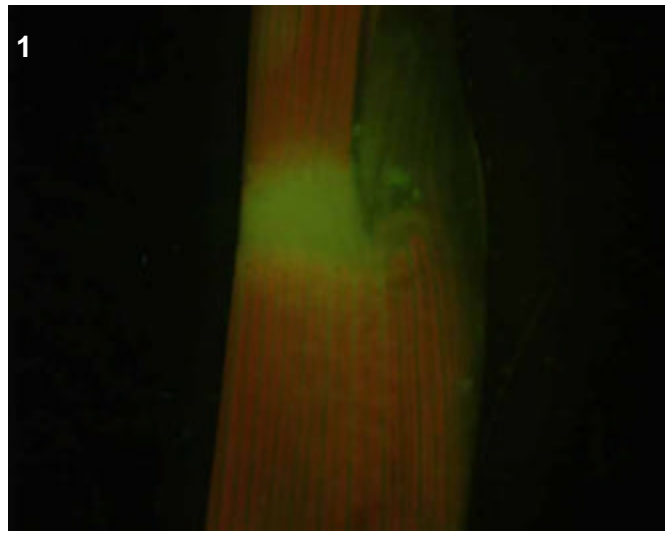
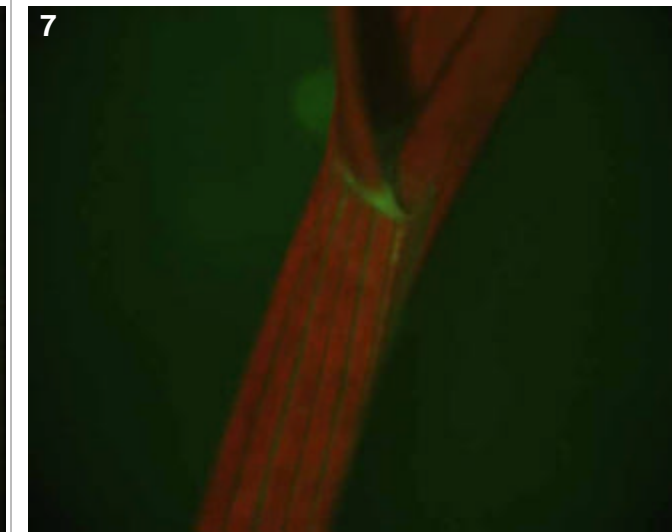
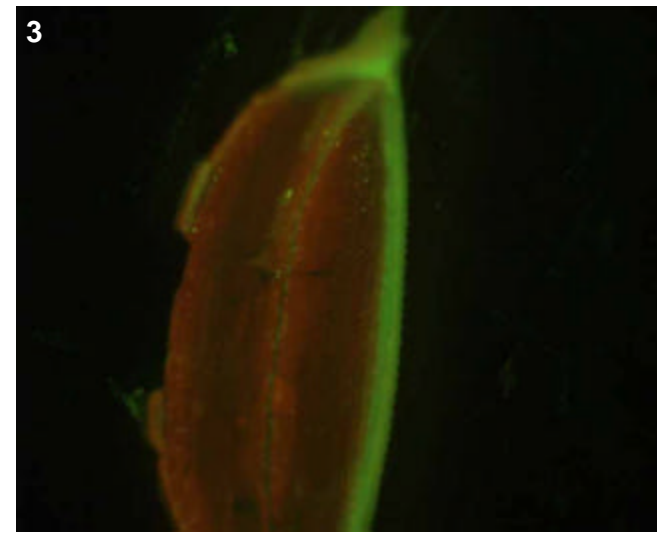
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 137



T0 comments

Probably leaf vascular, but no pic taken because sample was bad.

T1 seed comments

1/5 seeds showed faint expression in the scutellum.

T1 seedling comments

Genotype: ARL A04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-6
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

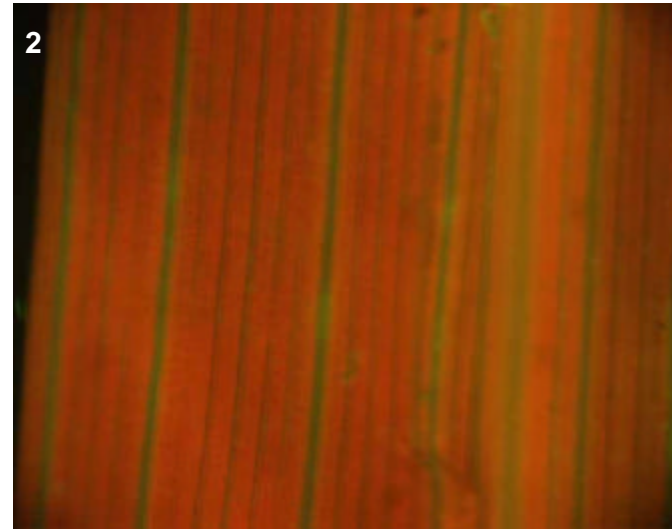
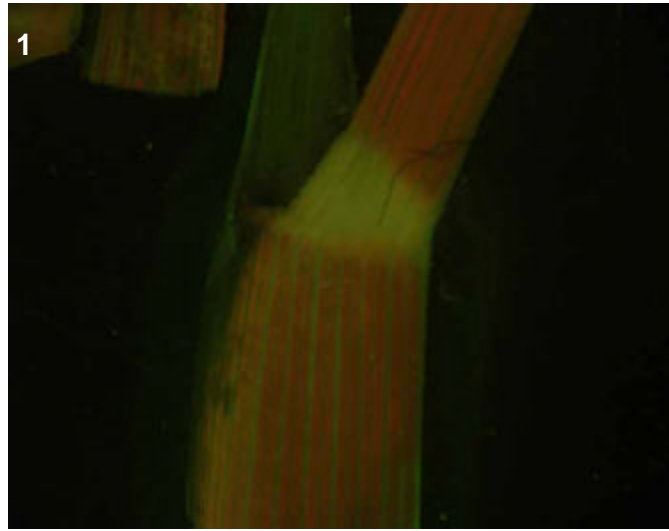
T0 pattern verified plus:

New pattern:

No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:

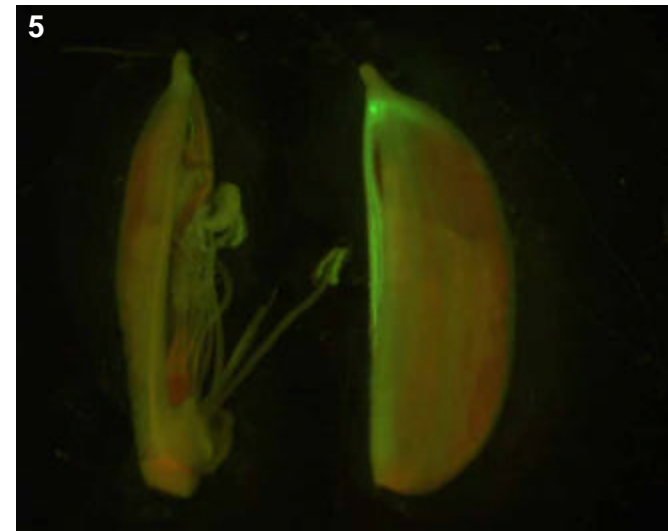
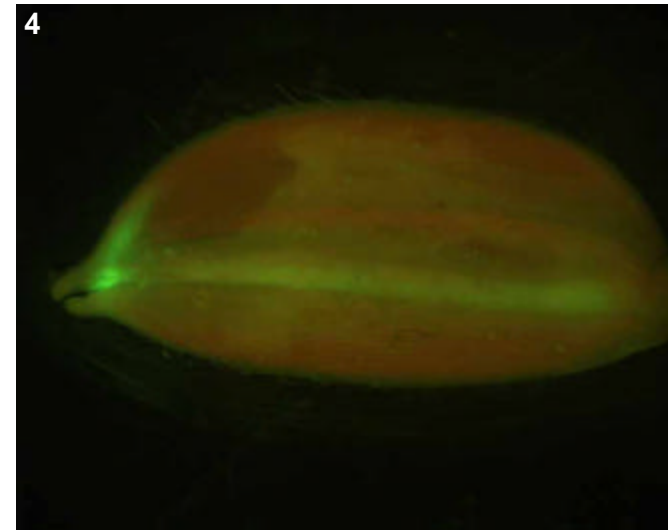
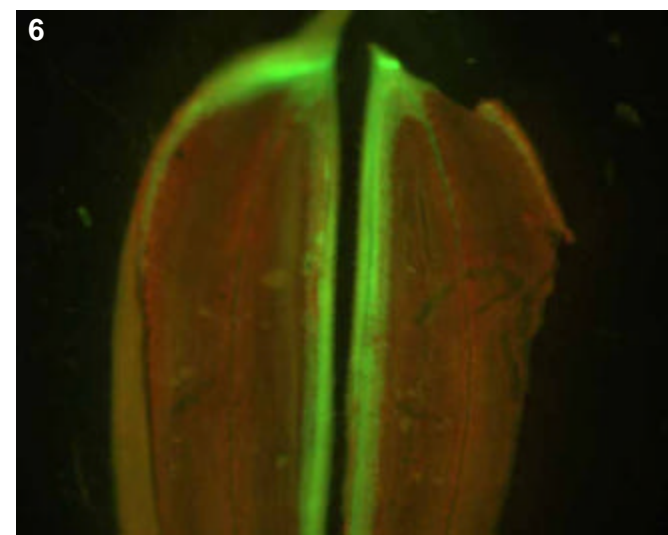
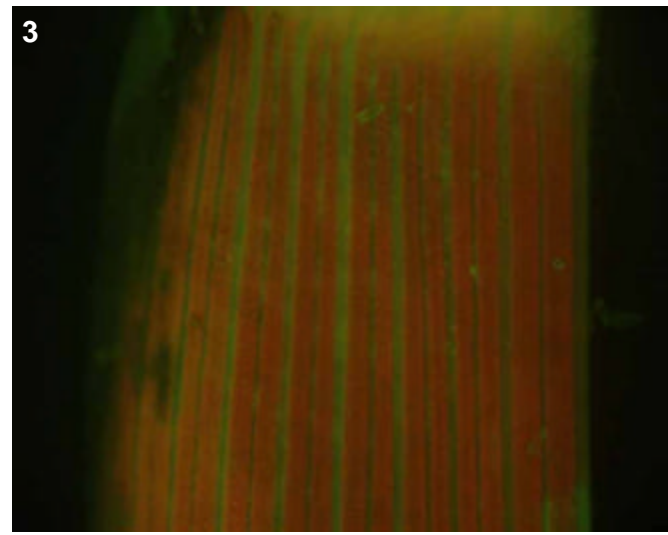


T0 comments

Faint collar but very bright vertical vascular elements on the outside of sheath. No expression in the interior vascular of the sheath as commonly observed. Also very bright leaf and floral vascular expression.

T1 seed comments

T1 seedling comments



Genotype: ARL A10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling: 5-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

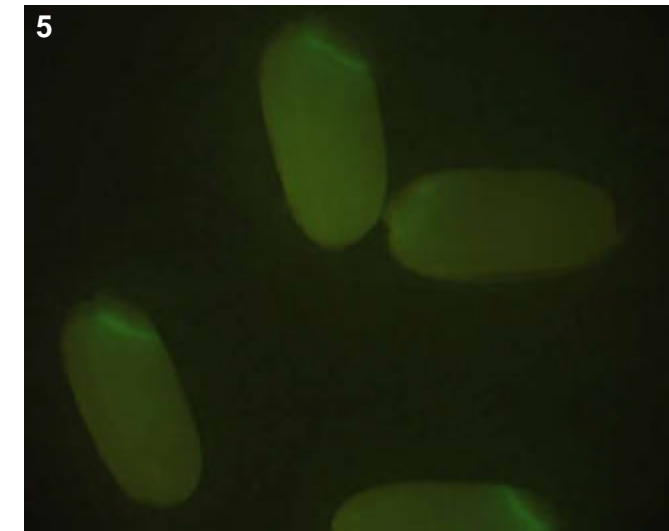
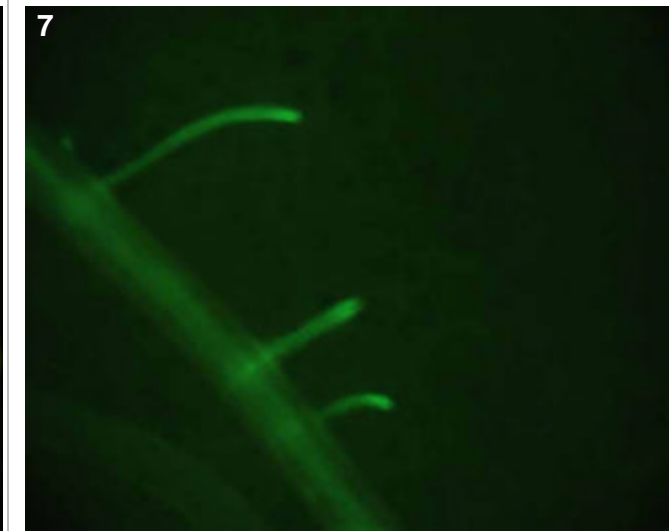
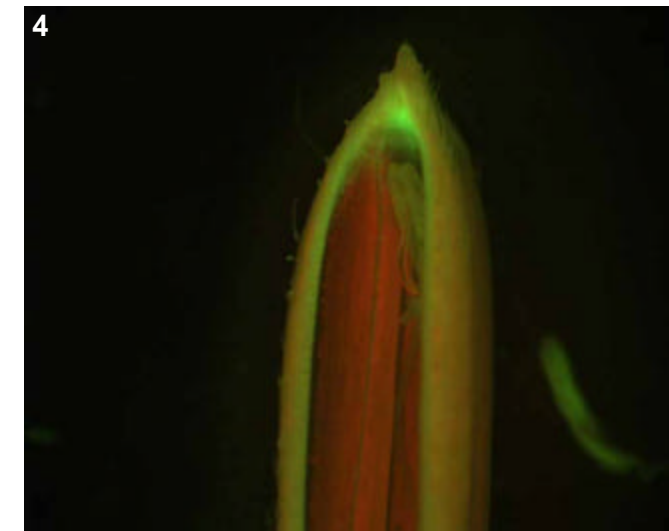
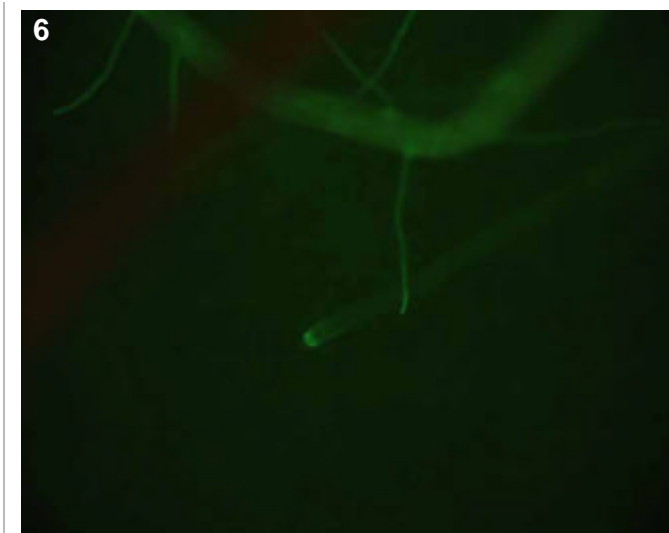
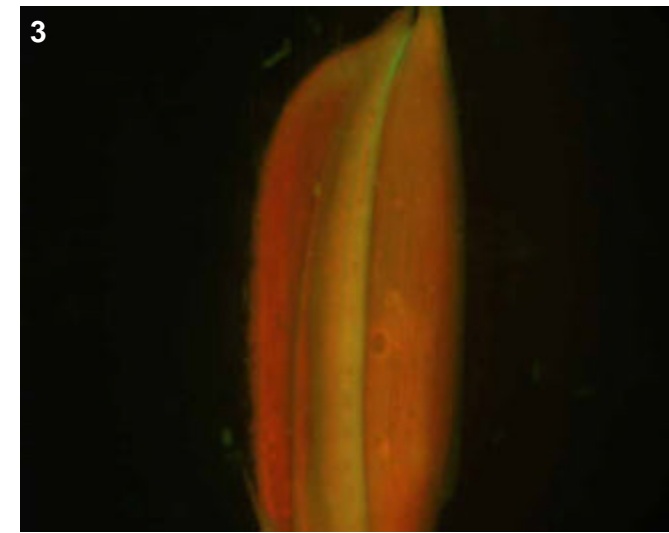
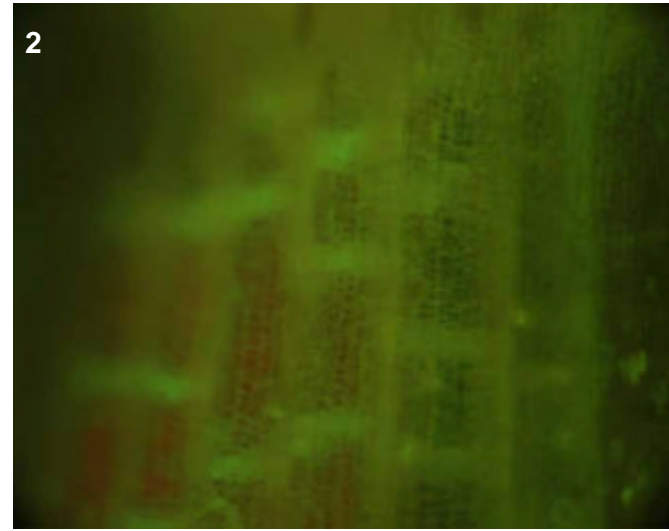
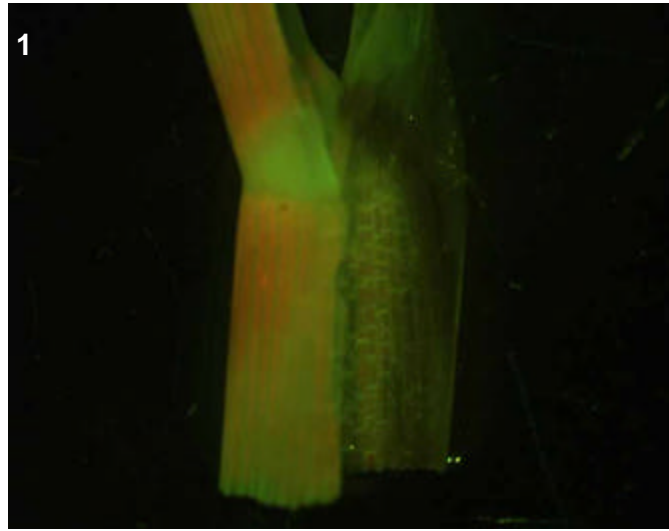
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 132



T0 comments

Lemma/palea expression is in the tips (pic 4).

T1 seed comments

3/5 seeds showed bright expression in the embryo (pic 5).

T1 seedling comments

Bright root expression (pics 6-7), with most expression in the tips.

Genotype: ARL D01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

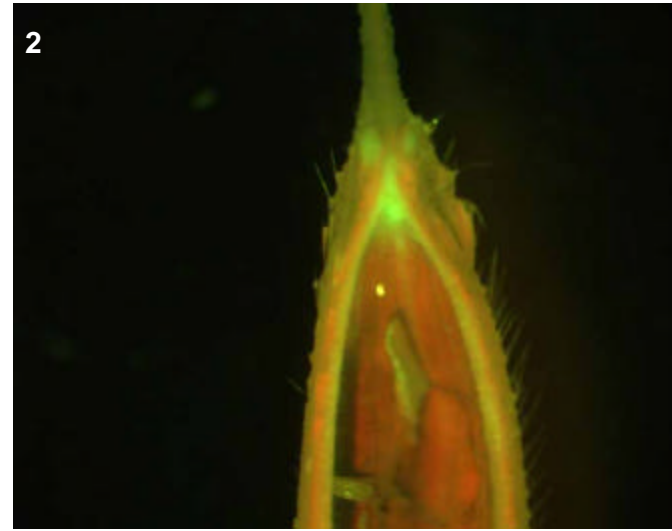
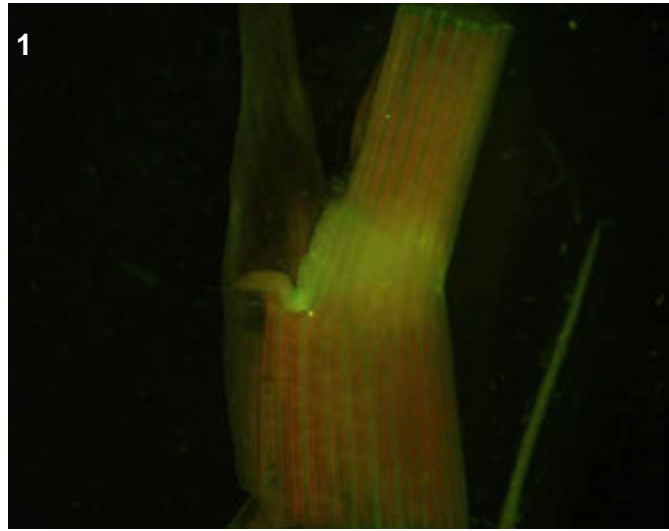
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

tetraploid line, with expression in the collar and floral vasculature.

T1 seed comments

T1 seedling comments

Genotype: ARL F02

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

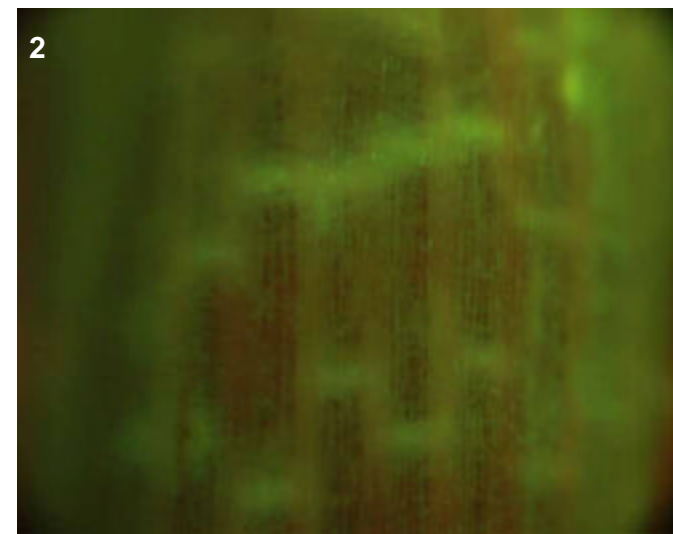
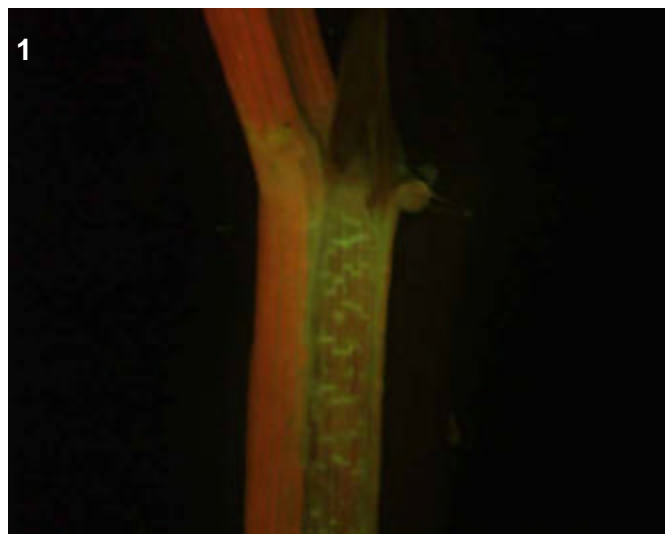
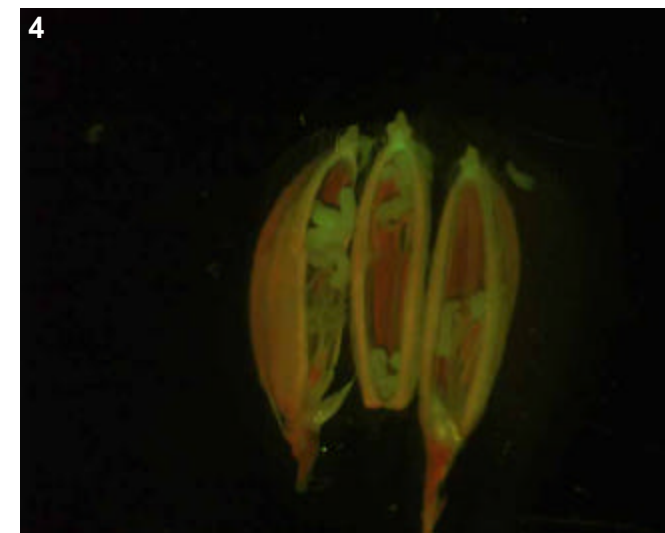
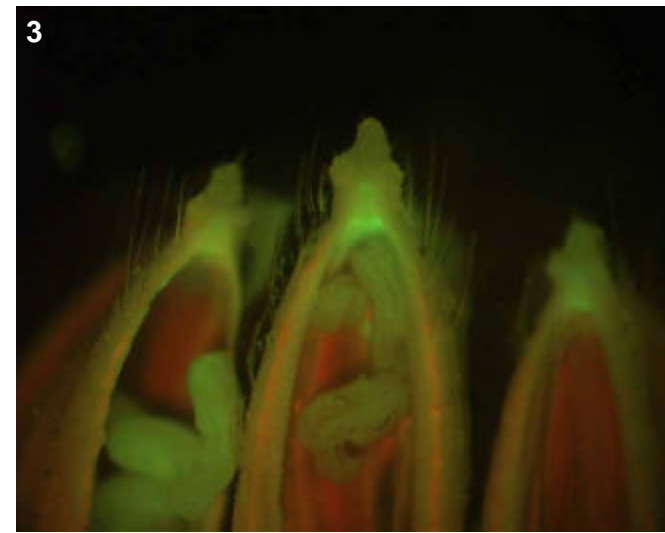
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Bright expression in tips of lemma/palea (pics 3 and 4).

T1 seed comments

T1 seedling comments

Genotype: ARL H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

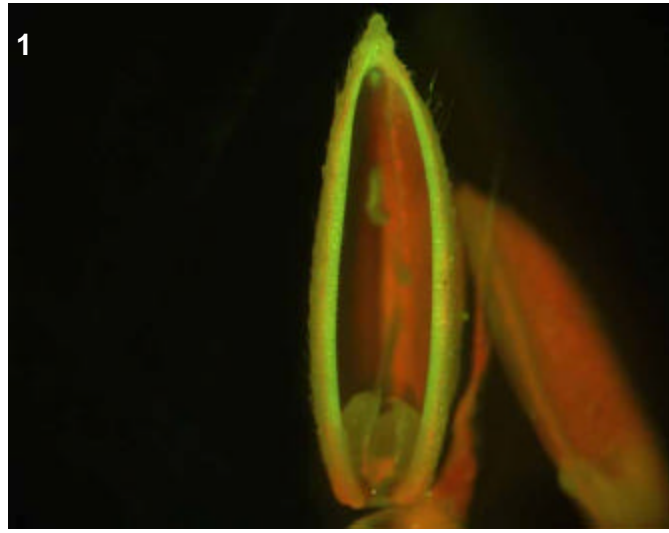
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression specific to vascular of the flower.

T1 seed comments

T1 seedling comments

Genotype: ARL H08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

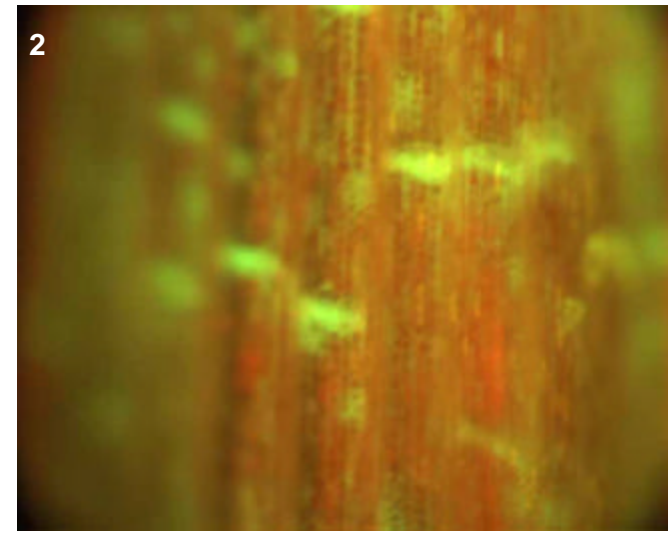
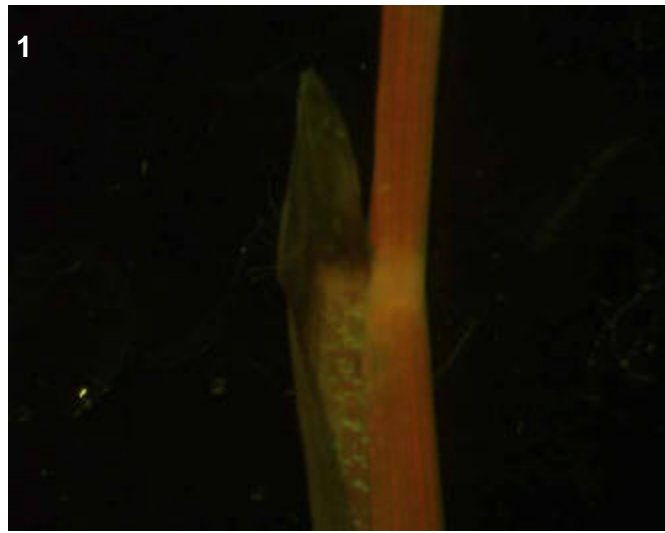
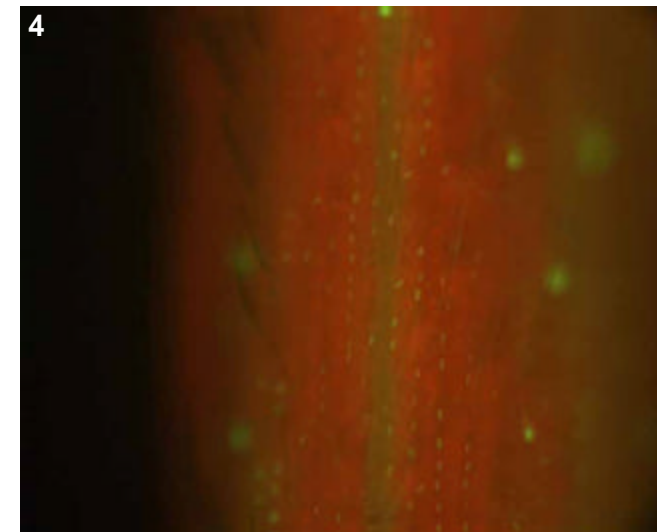
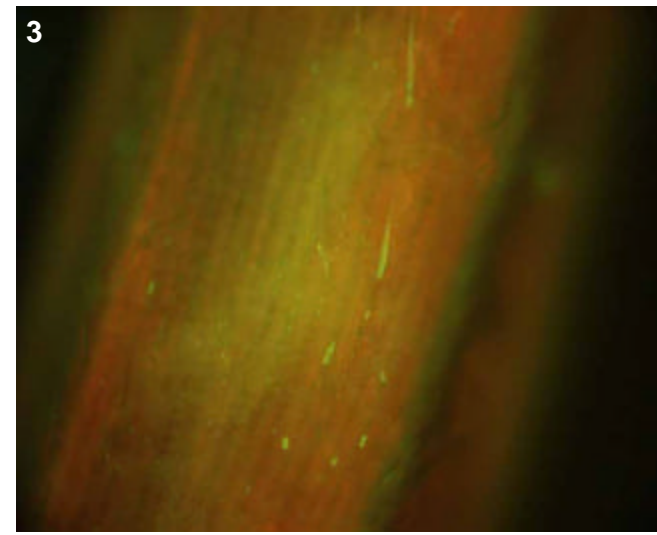
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Both trichomes (pic 3) and stomata (pic 4) of the flower were GFP positive.

T1 seed comments

T1 seedling comments

Genotype: ARL H10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-5
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

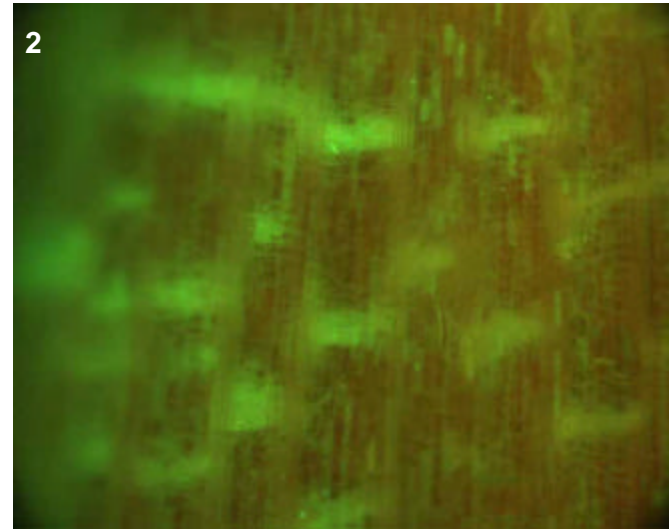
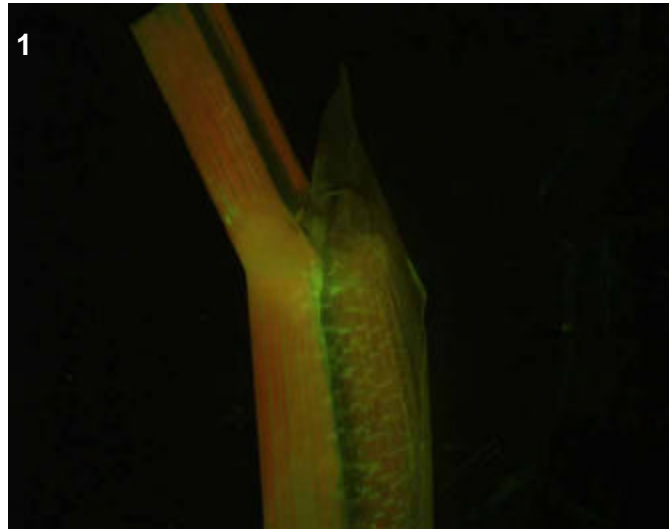
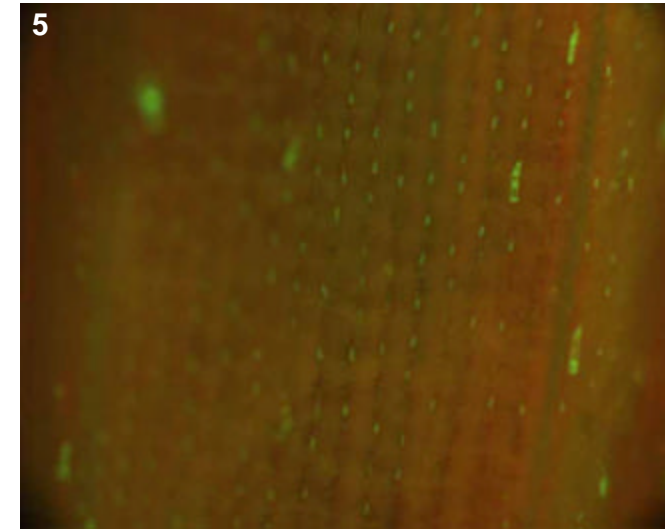
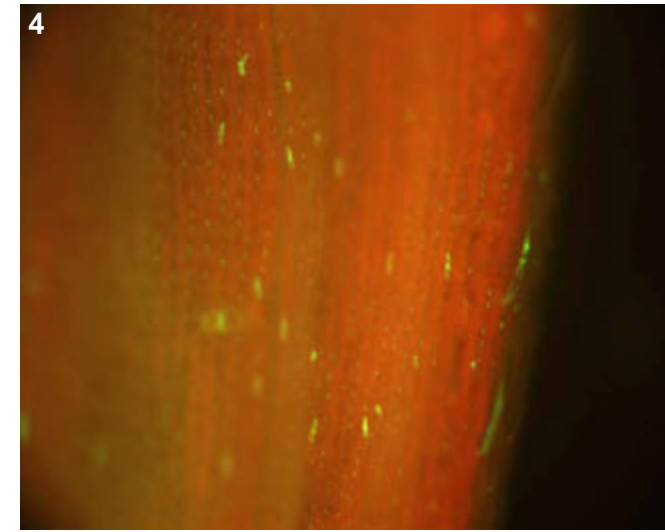
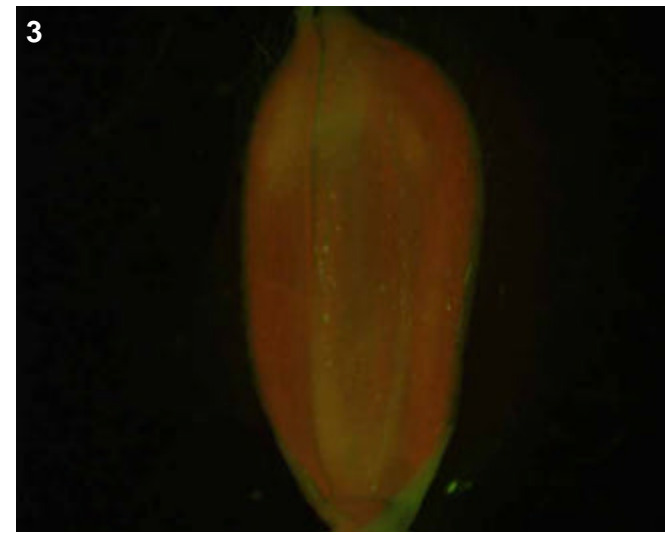
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARL H12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

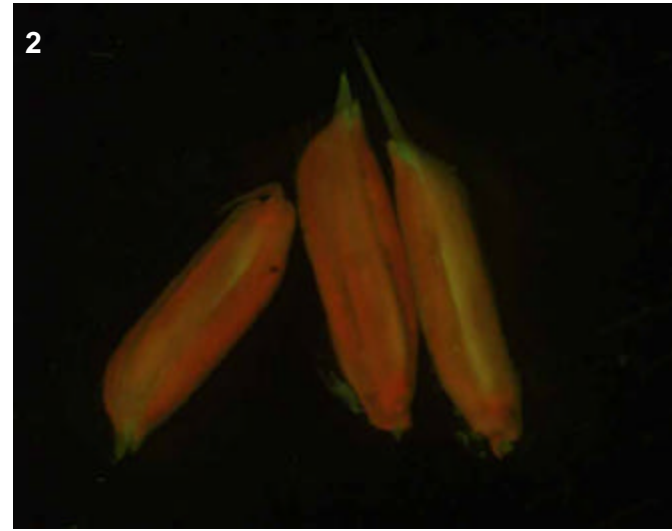
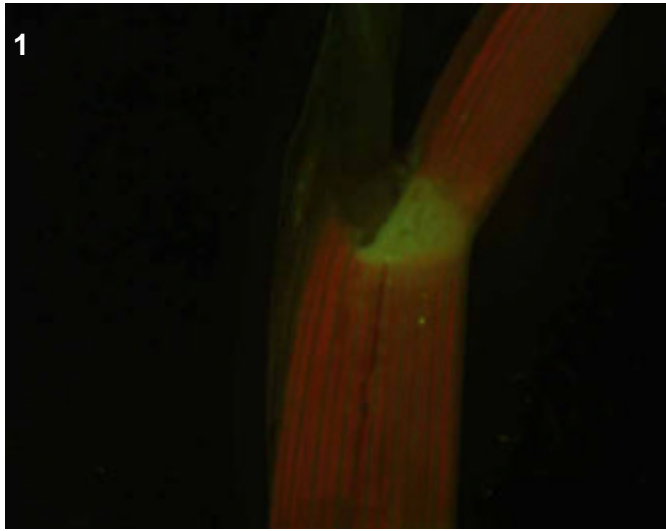
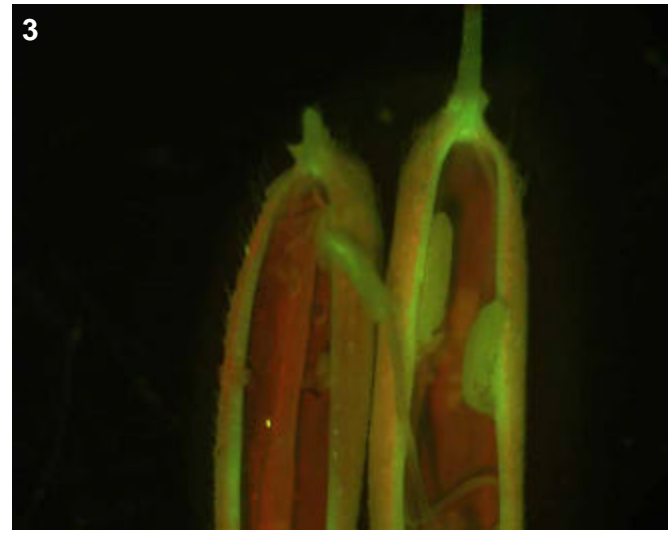
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARM A01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

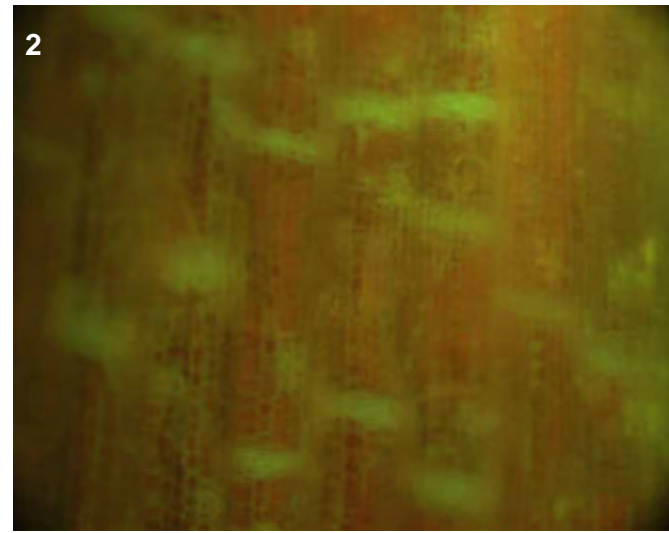
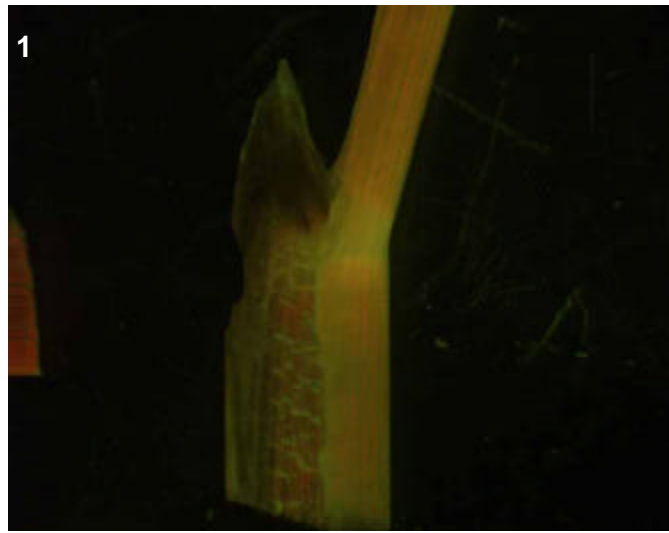
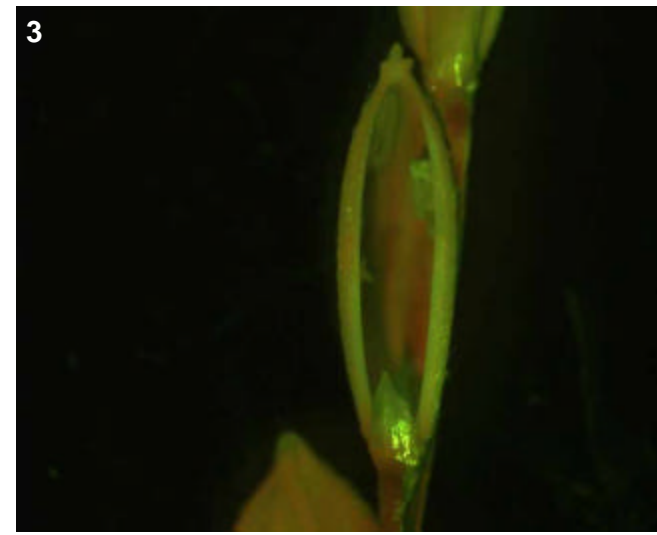
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARM D10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

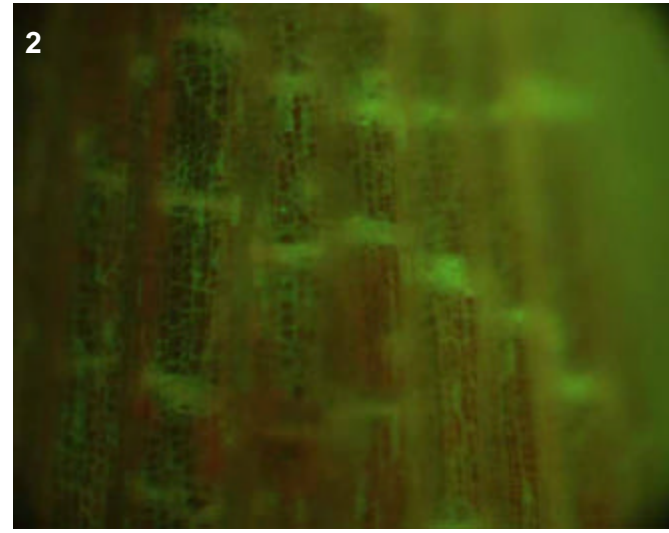
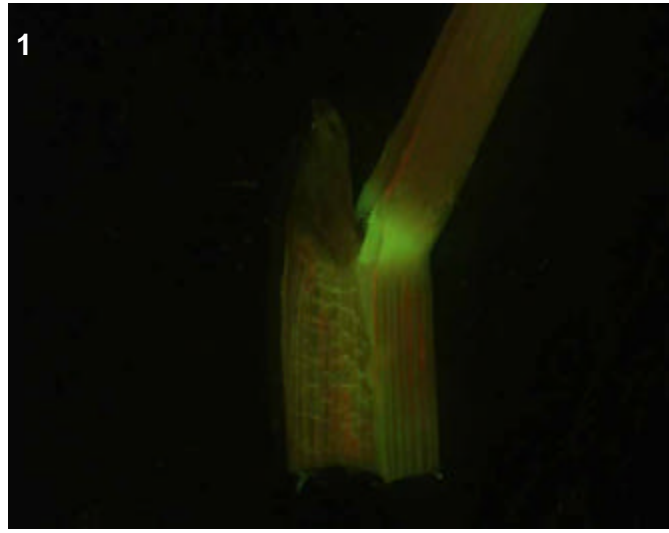
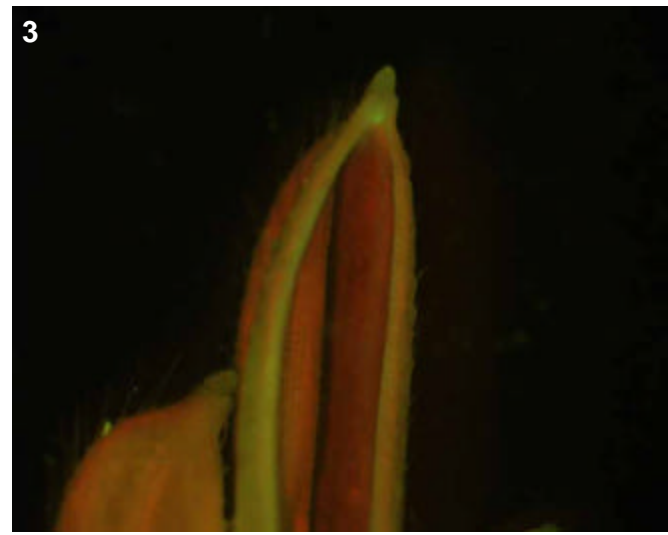
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Expression in the tips of the lemma/palea (pic 3)

T1 seed comments

T1 seedling comments

Genotype: ARM E08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

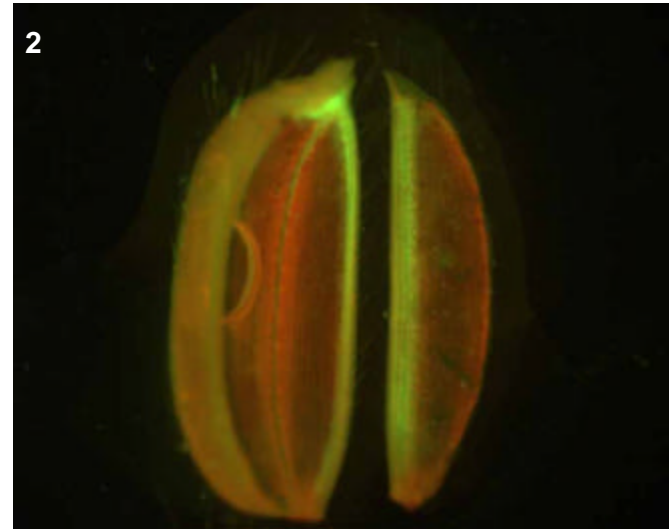
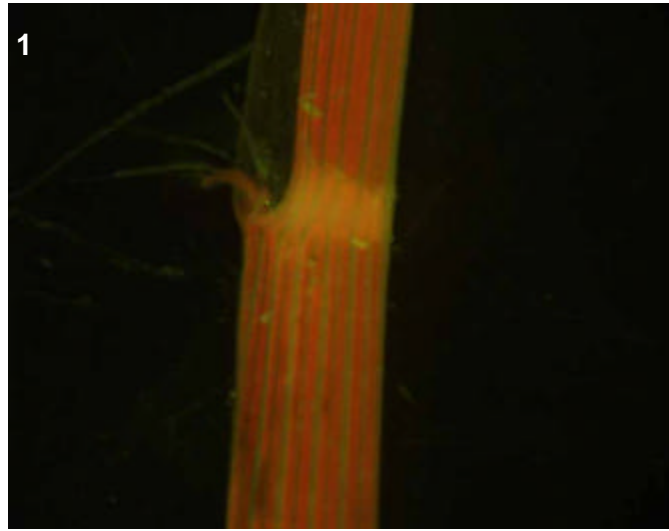
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Strong expression in the outer part of sheath vascular, not interior or collar as commonly observed.

T1 seed comments

T1 seedling comments

Genotype: ARM F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

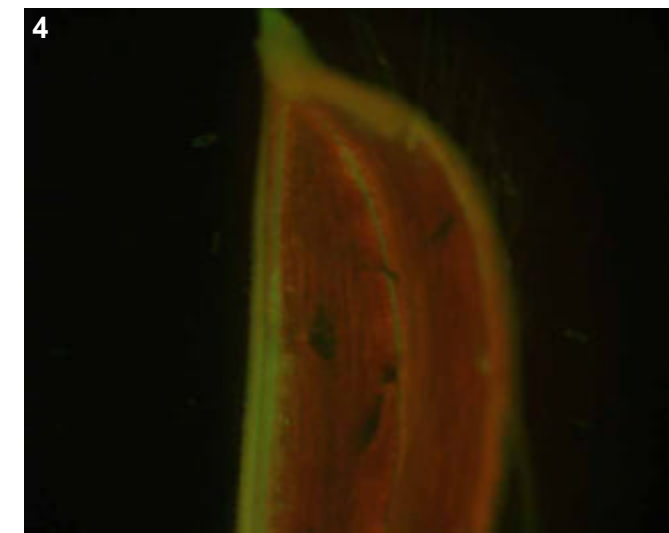
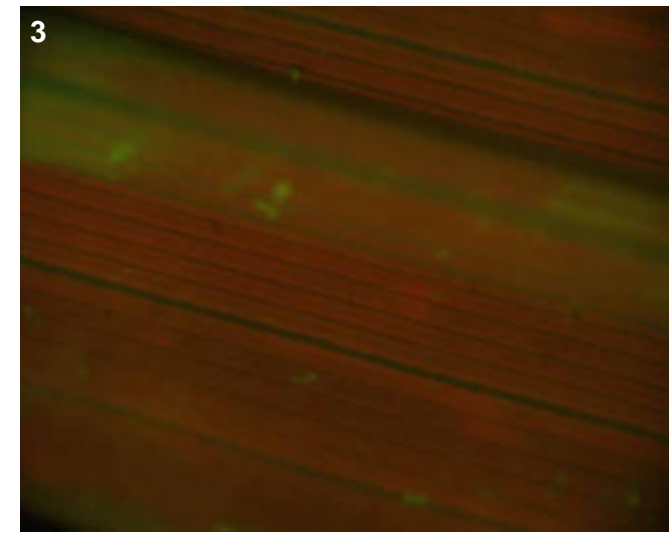
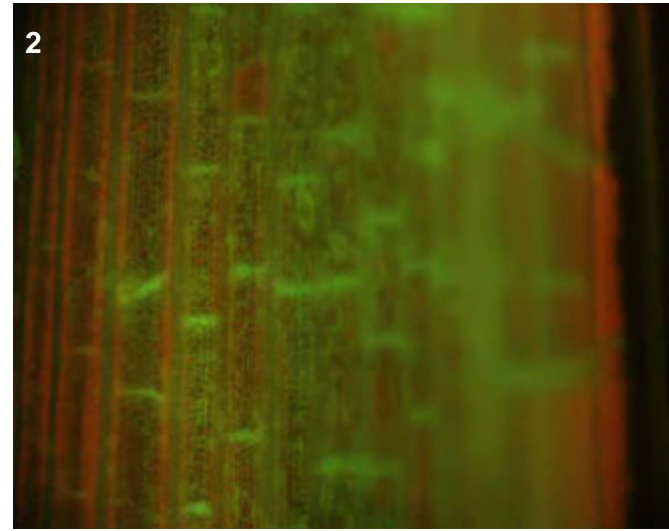
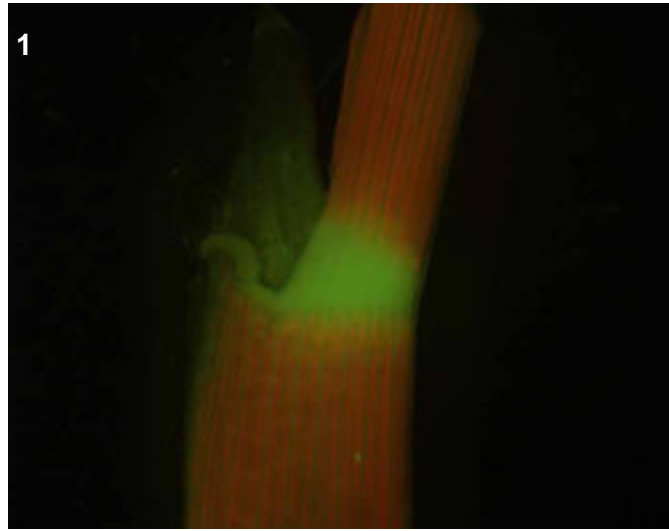
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Brightest expression in the collar, all of the other other patterns are medium expression.

T1 seed comments

T1 seedling comments

Genotype: ARN H07

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-4
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

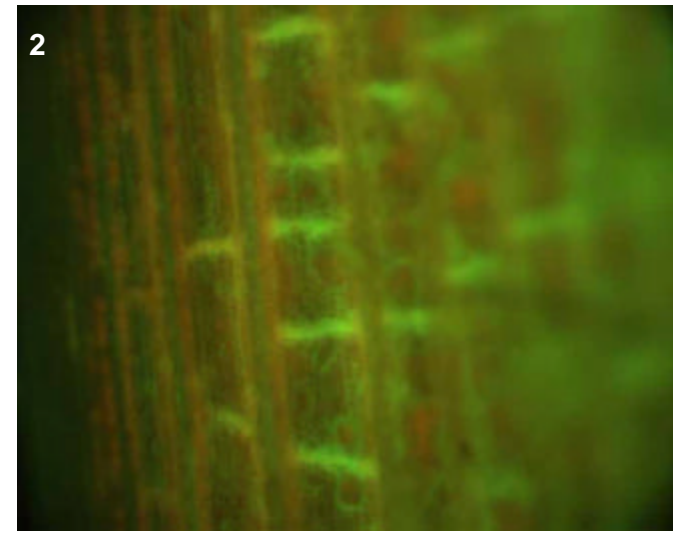
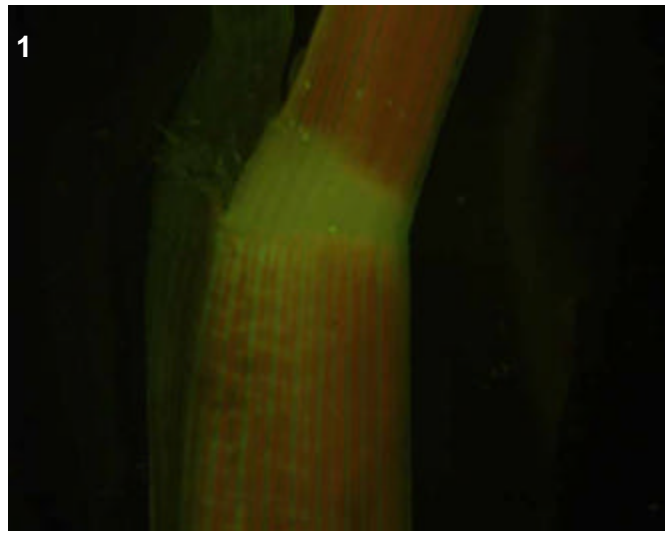
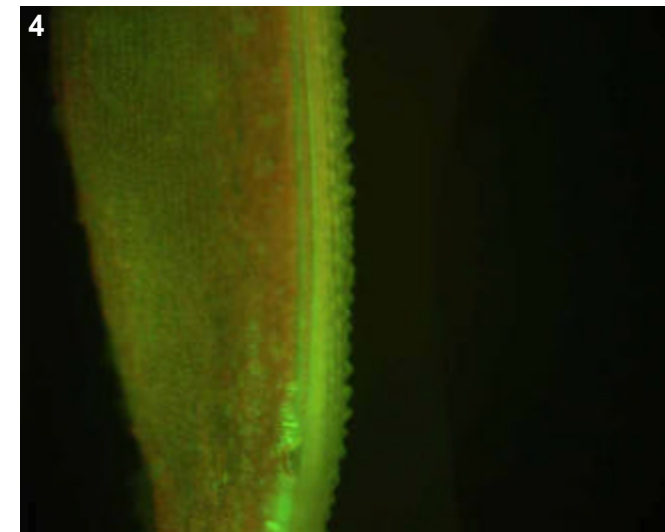
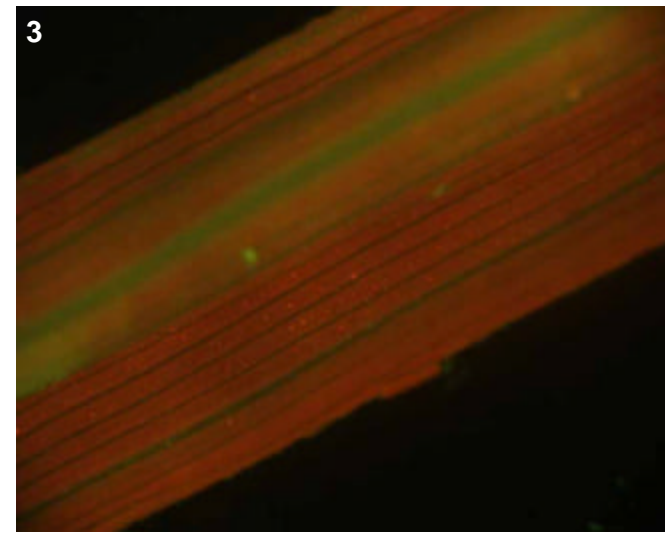
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

A bright vascular line.

T1 seed comments

T1 seedling comments

Genotype: ARO A12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

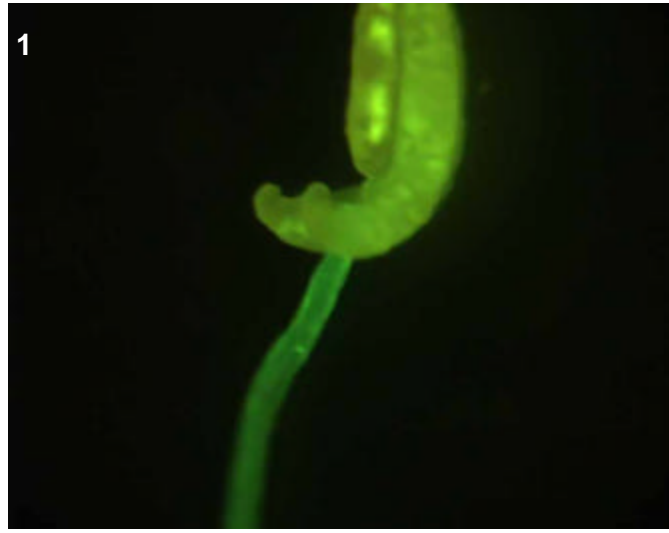
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Expression observed brightly in the filaments, perhaps faint expression in lodicules as well but not sure.

T1 seed comments

T1 seedling comments

Genotype: ARO C10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

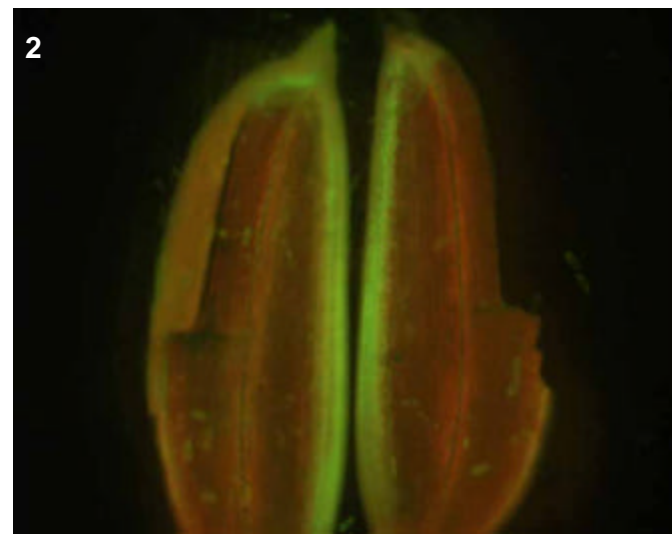
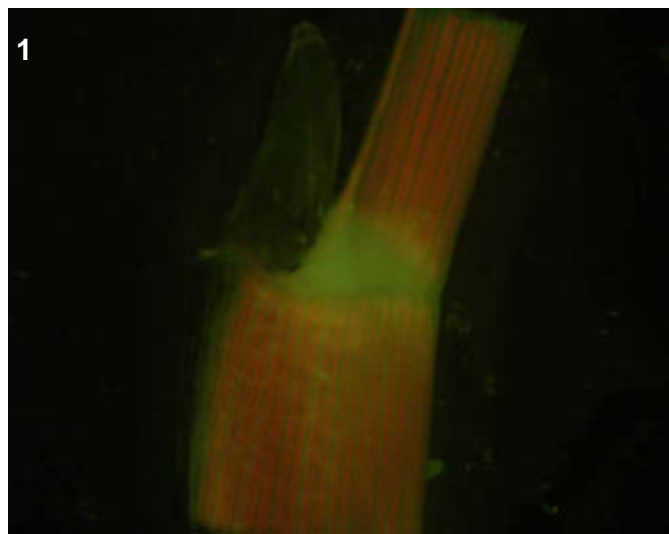
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Medium collar, bright floral vascular.

T1 seed comments

T1 seedling comments

Genotype: ARO D05

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

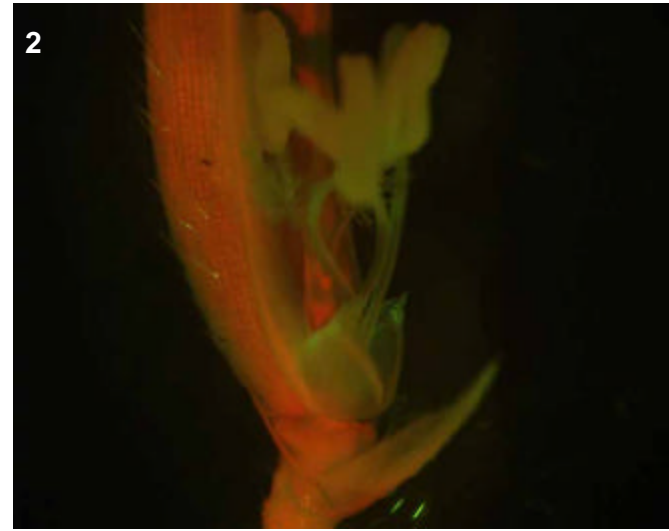
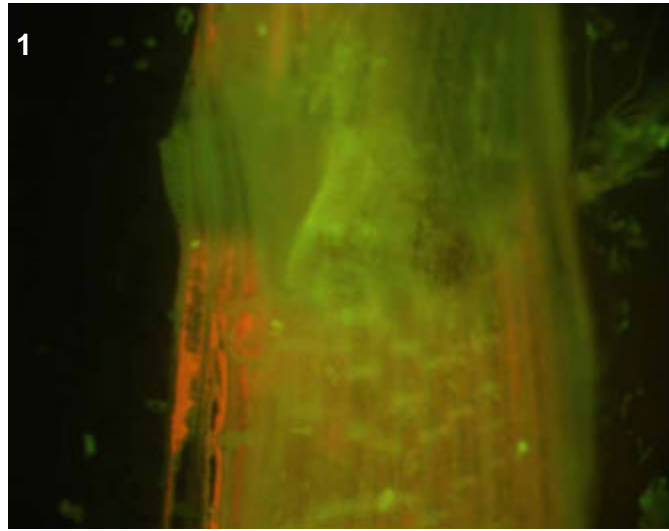
New pattern:

No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

Collar section was very diseased, but medium expression in the collar and sheath vascular. Lodicule expression (pic 2) was observed in just the tips of the lodicules.

T1 seed comments

T1 seedling comments

Genotype: ARO D09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

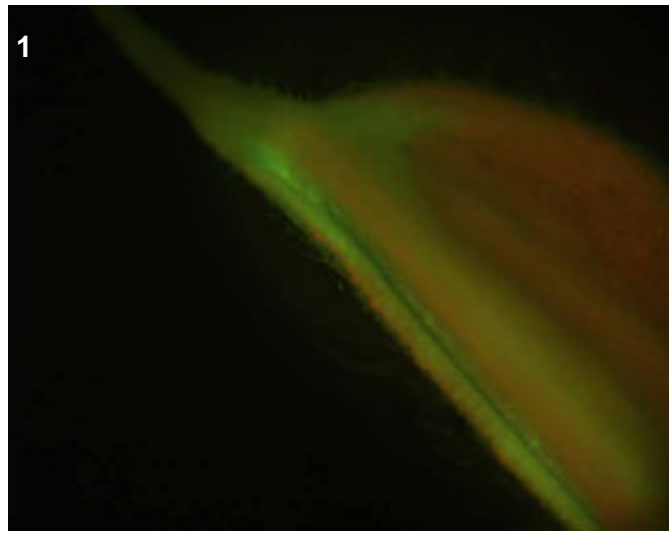
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

Leaf and sheath were lost for this sample, so only the flower was analyzed. This line looks to be tetraploid.

T1 seed comments

T1 seedling comments

Genotype: ARO E10

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

Perhaps faint expression in collar.

T1 seed comments

T1 seedling comments

Genotype: ARO H09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

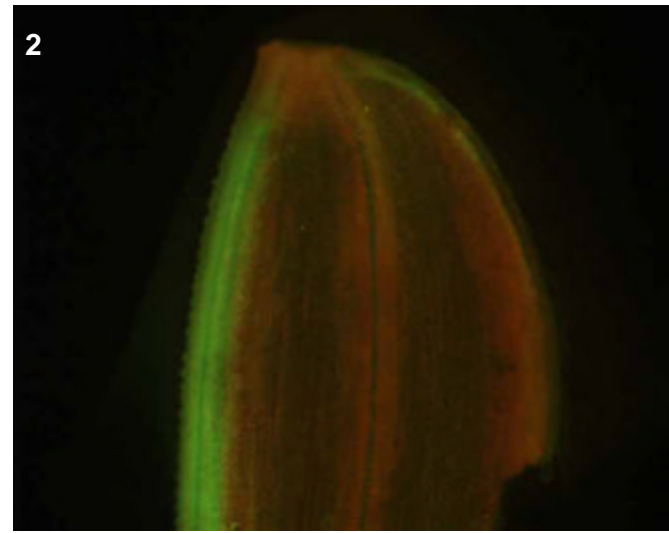
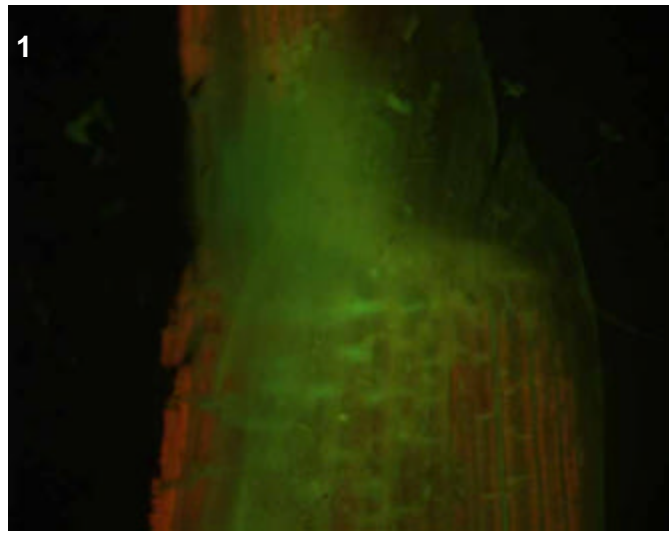
- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse? Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ARP F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant:
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:

T0 comments

Perhaps faint expression in collar but difficult to tell because tissue diseased.

T1 seed comments

T1 seedling comments

Genotype: ARP F12

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling: 1

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

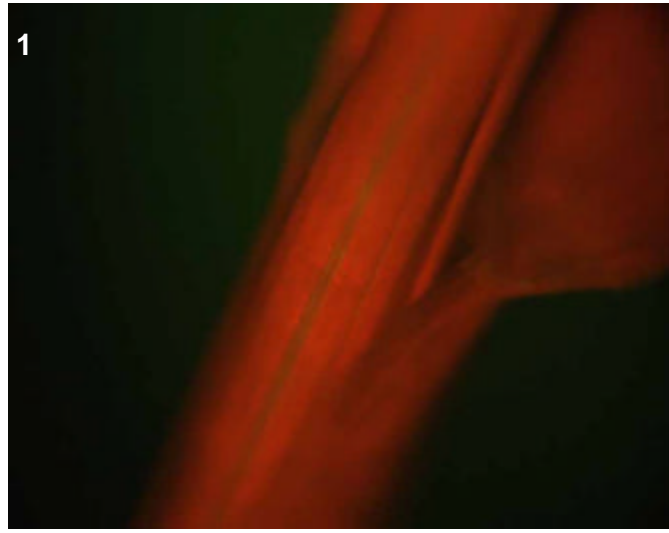
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?
YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 240



T0 comments

T1 seed comments

T1 seedling comments

Could be specific to shoot vascular, with no collar expression.

Genotype: ARR F04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-2
 T1 seed/seedling: 3-8
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

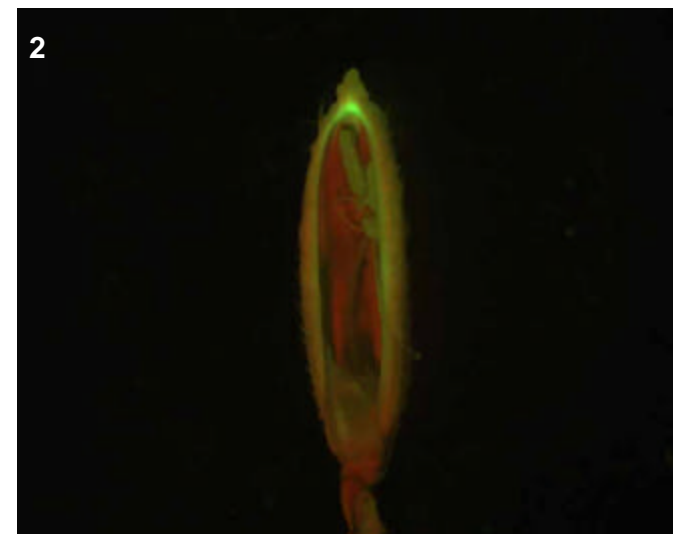
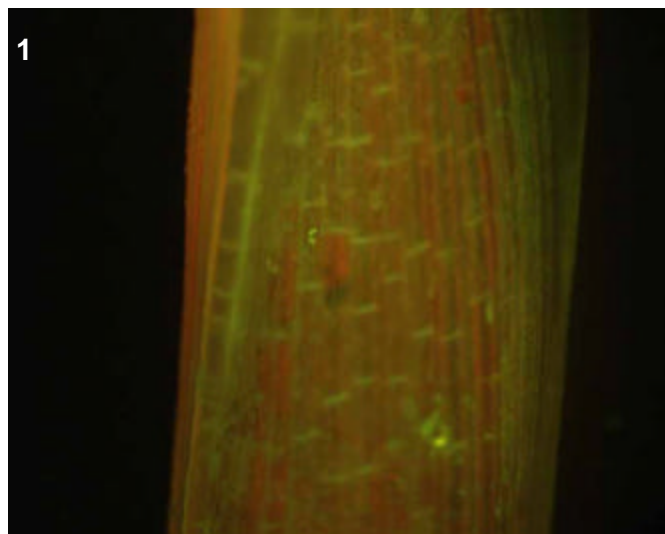
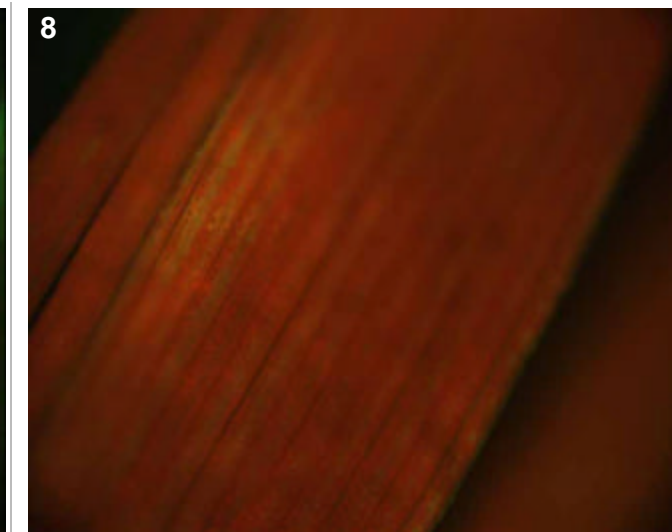
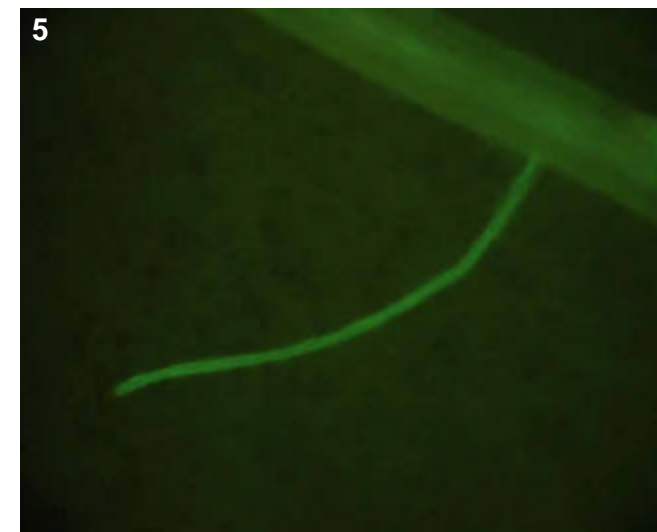
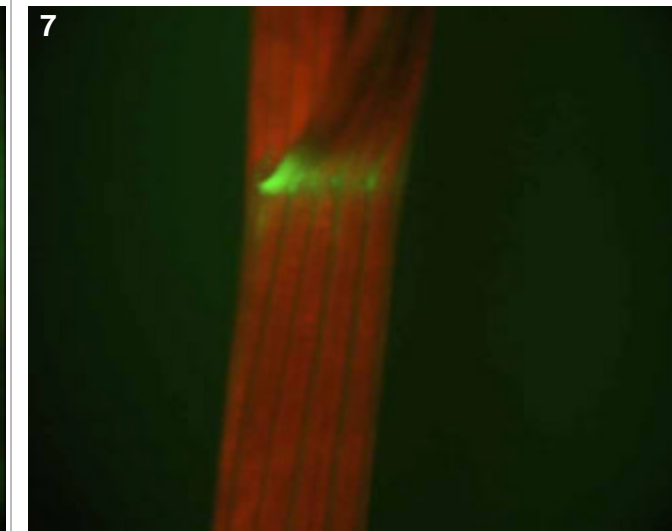
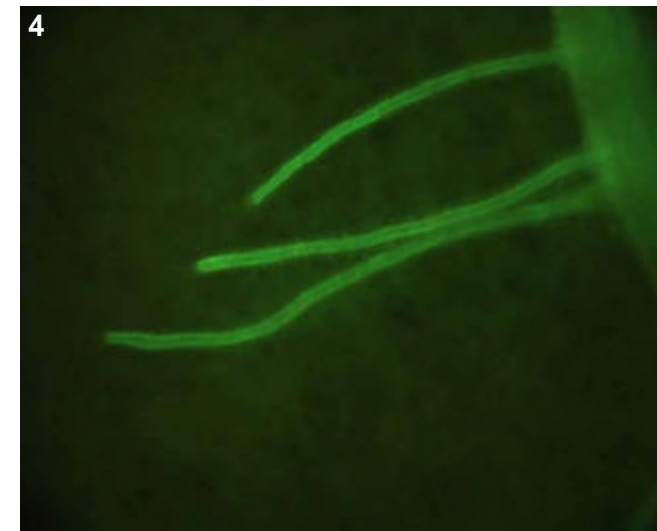
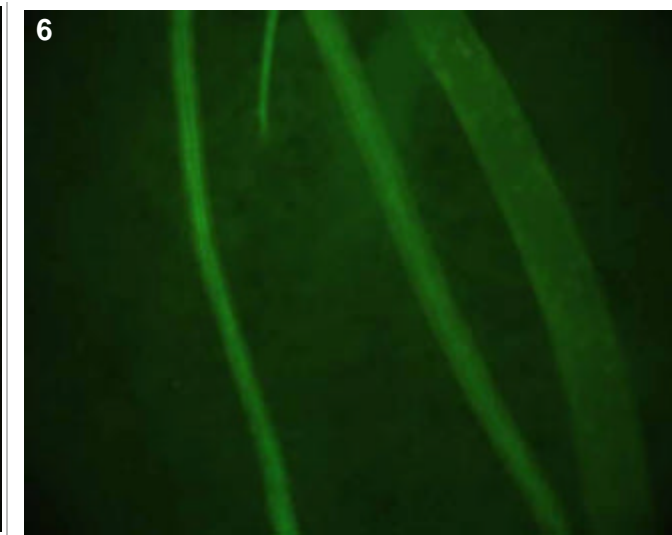
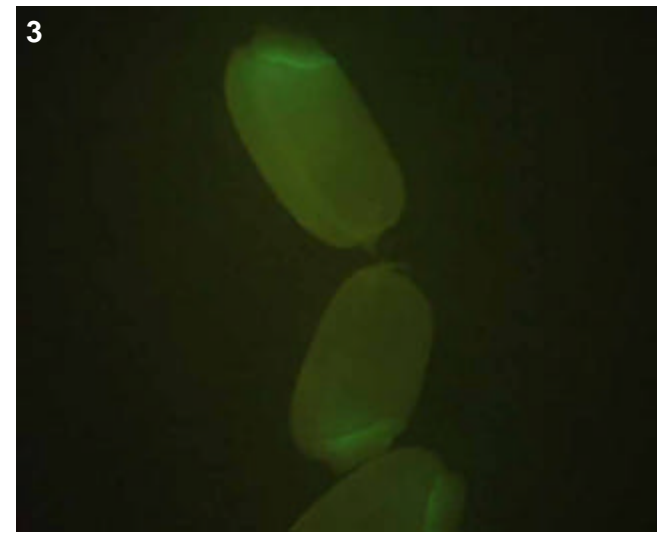
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 200



T0 comments

Medium expression in vascular of collar and flower (pics 1-2).

T1 seed comments

3/5 seeds had bright expression in the embryo (pic 3).

T1 seedling comments

Bright vascular in both the root (pics 4-6) and shoot (pics 7-8). Note the bright "stripes" on the surface of leaf tissue (pic 8).

Genotype: ARS B04

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling:
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

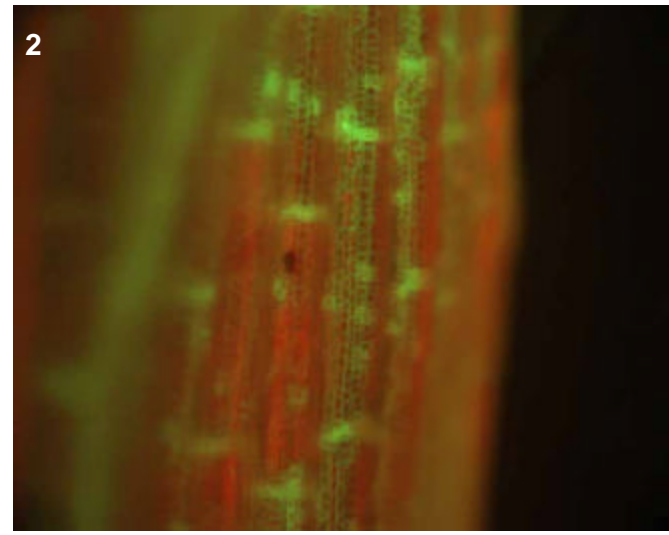
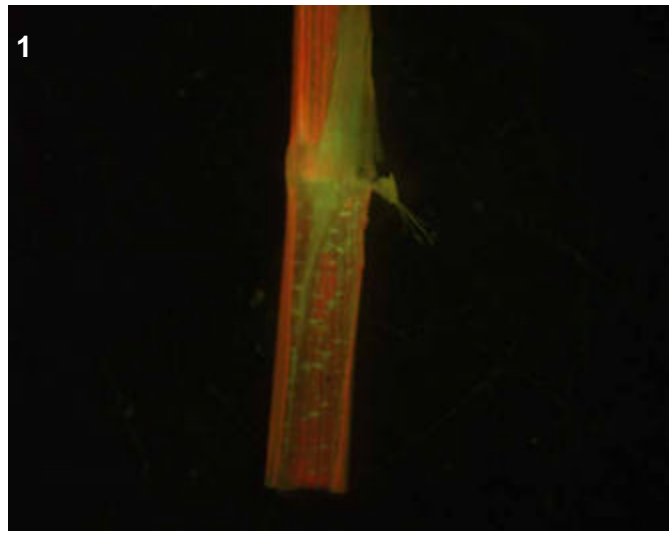
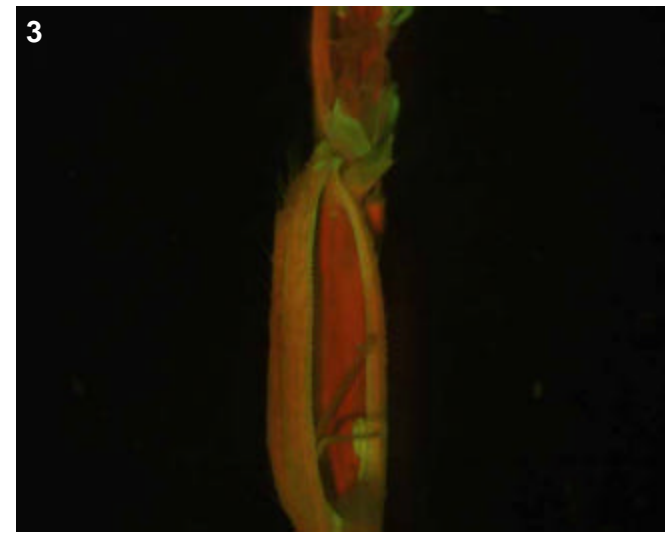
T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected

T1 in greenhouse?

Confocal?

Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ART B06

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1
 T1 seed/seedling: 2-5
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

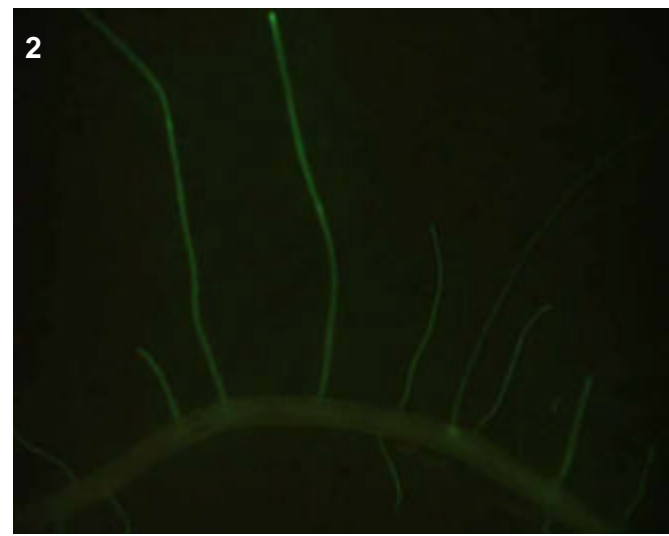
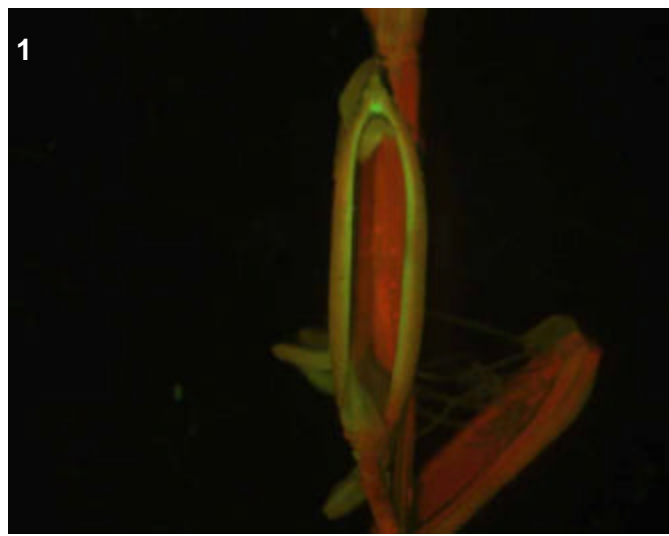
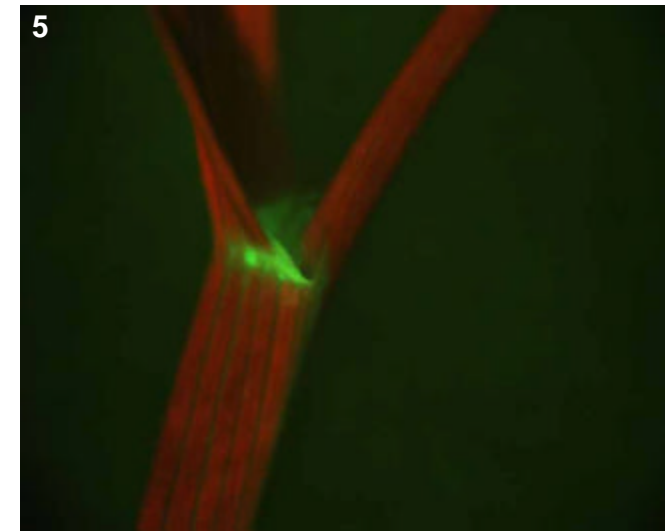
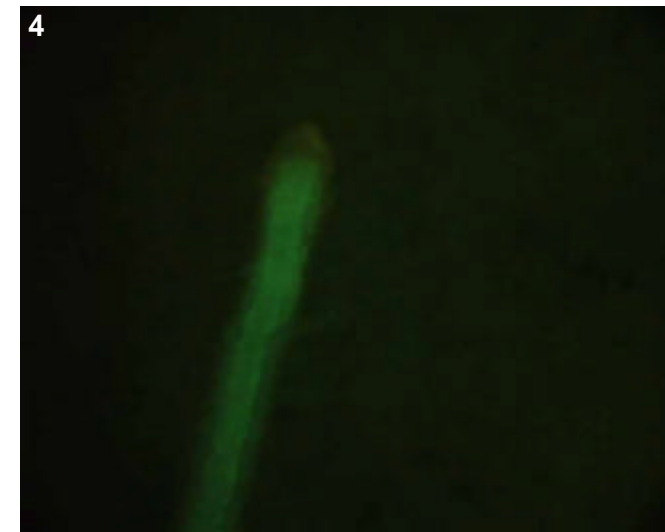
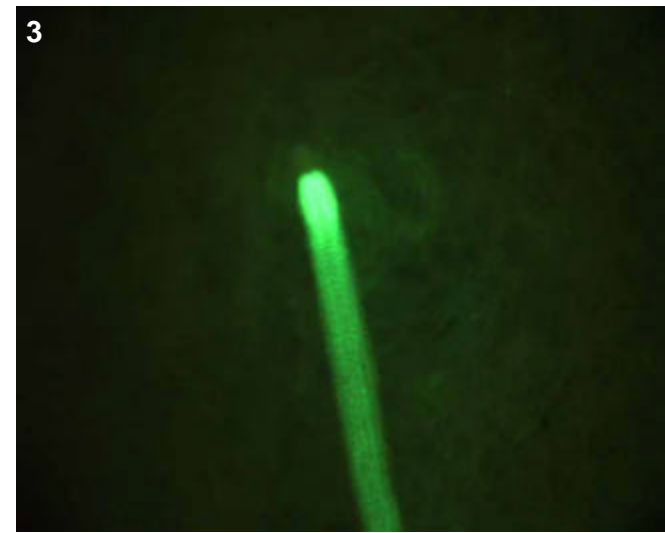
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 1 GFP+ plant

Confocal?

Number T2 seed produced: 22



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ART B08

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

- T0 mature plant: 1
- T1 seed/seedling:
- T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

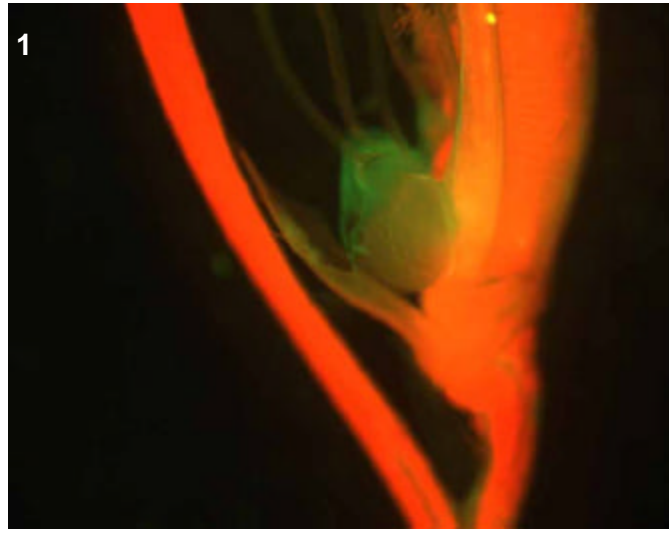
- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
- Confocal?
- Number T2 seed produced:



T0 comments

T1 seed comments

T1 seedling comments

Genotype: ART F09

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant: 1-3
 T1 seed/seedling: 4-9
 T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive

T1 Mature

T0 pattern verified:

T0 pattern verified plus:

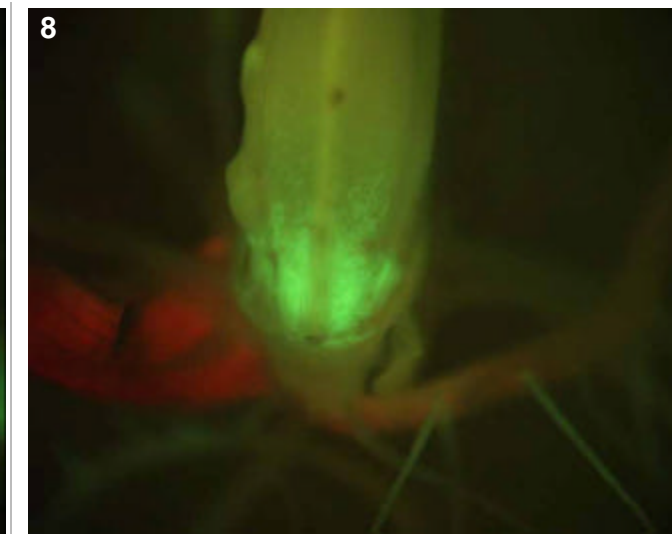
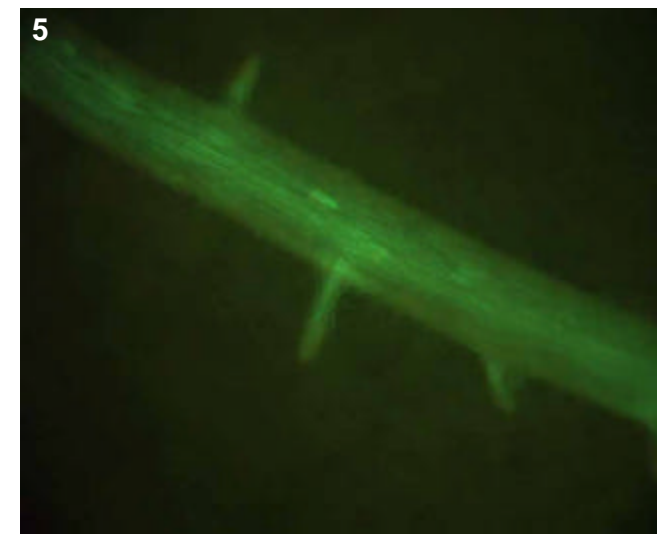
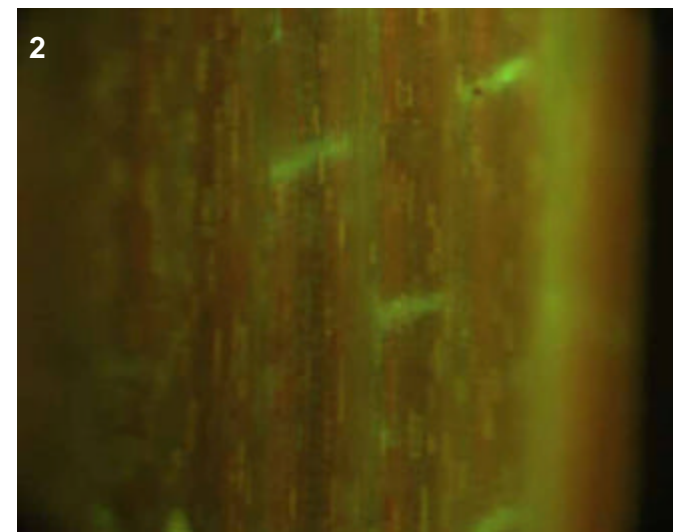
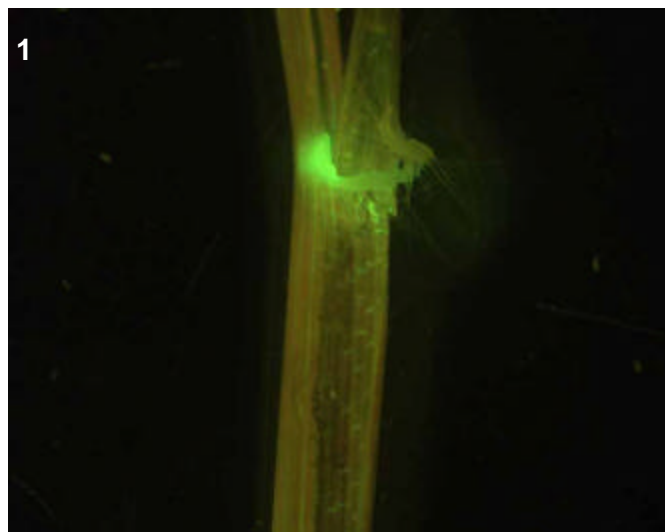
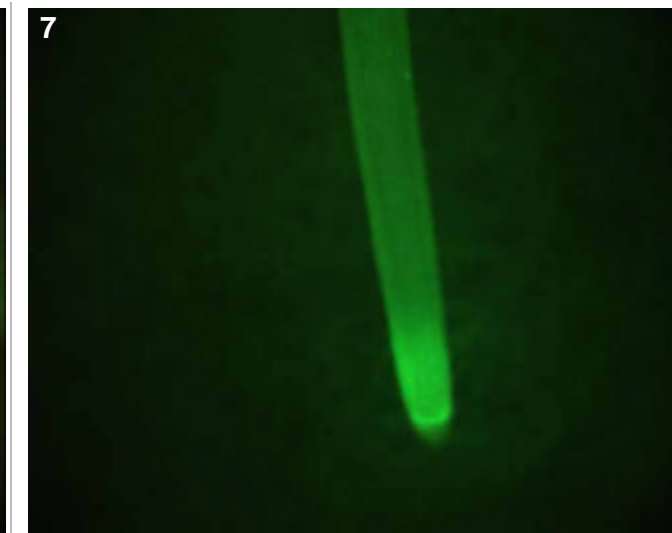
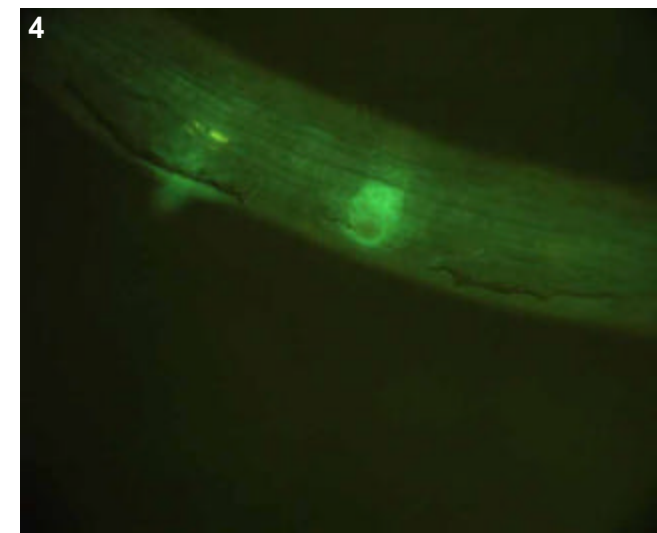
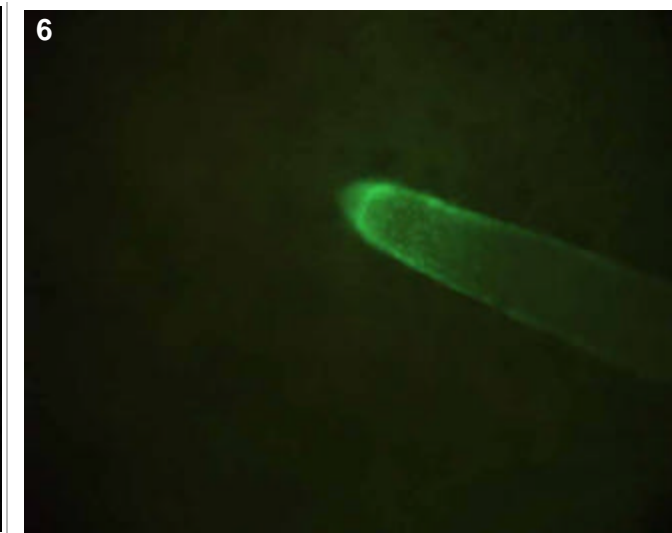
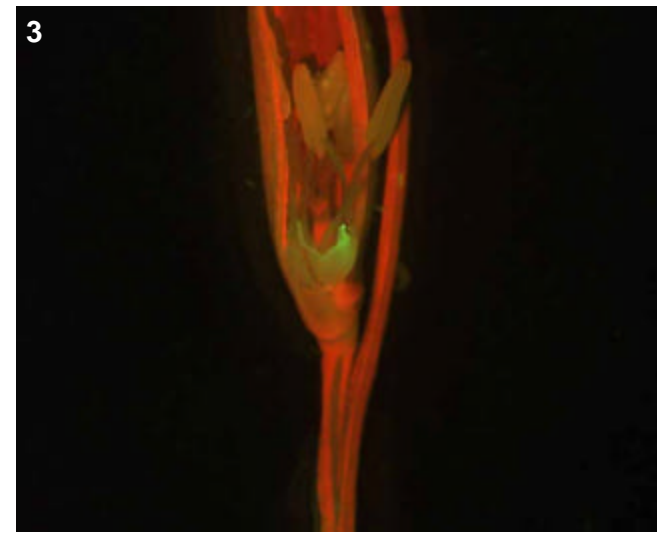
New pattern:

No GFP detected

T1 in greenhouse?
 YES, 3 GFP+ plants

Confocal?

Number T2 seed produced: 17



T0 comments

T1 seed comments

T1 seedling comments

Looks like a bright epidermal pattern in crowns (pics 6-7).

Genotype: ASM C01

Screened

- T0 mature plant
- T1 seed
- T1 seedling
- T1 mature plants

Expression

- None
- Bright
- Medium
- Weak
- Unsure

Pictures

T0 mature plant:

T1 seed/seedling:

T1 mature plant:

T0 Flower

- YES
- POSSIBLE
- Stamen: anther
- Stamen: filament
- Carpel: stigma
- Carpel: style
- Carpel: ovary
- Carpel: base
- Lemma/palea
- Lodicule
- Rachilla
- Sterile lemma
- Pedicel
- Guard cells
- Trichomes
- Vascular

T0 Blade

- YES
- POSSIBLE
- Vascular
- Guard cells
- Trichomes
- Mesophyll

T0 Sheath

- YES
- POSSIBLE
- Collar
- Vascular
- Trichomes
- Guard cells
- Mesophyll

T1 Seed

- YES
- POSSIBLE
- Embryo
- Coleorhiza
- Scutellum
- Aleurone/Endo.
- Vasc. bundle

T1 Seedling

- YES
- POSSIBLE
- SHOOT
- ROOT
- ENDOSPERM
- S. vascular
- Seminal root
- Crown roots
- Lateral roots
- Root cap
- Root apex
- R. stele
- R. cortex/end.
- R. epidermis
- Constitutive
- Coleoptile
- Sheath tissue
- Blade tissue
- Leaf tip
- Collar
- Trichomes
- Guard cells

T1 Mature

- T0 pattern verified:
- T0 pattern verified plus:
- New pattern:
- No GFP detected
- T1 in greenhouse?
YES, 1 plant
- Confocal?
- Number T2 seed produced:

T0 comments

T1 seed comments

T1 seedling comments