

MT-1 (*At5g37990*)

- 1. Expression profile- roots (R), leaves (L), Se –treated with NaCl, 4°C, H₂O stress
- 2. Available knock-out mutants—Y/homozygous/intron
- 3. Over-expression – Y
- 4. Promoter-*GUS* -Y
- *putative signal peptide
- mlsaflghasaiaiaspvvsivgirnqtygemkhvgvvekqr

Predotar prediction - Microsoft Internet Explorer

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 A prediction service for identifying putative mitochondrial and plastid targeting sequences

Sequence	Mitochondrial score	Plastid score	Prediction
	0.525	0.059	mitochondrial

MT-2 (*At5g37970*)

- 1. **Expression profile** – roots (R), leaves (L), Se –treated with 4°C, H₂O stress
- 2. **Knock-out mutants**-NO
- 3. **Over-expression** - YES
- 4. **Promoter-GUS** - YES
- *putative signal peptide
- Mlsafwghasaiaiaspvvsivgfqgdrttirptygemkfvdvverpr – no predicted cleavage signal

Predotar prediction - Microsoft Internet Explorer

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 A prediction service for identifying putative mitochondrial and plastid targeting sequences

Sequence	Mitochondrial score	Plastid score	Prediction
	0.962	0.028	mitochondrial

MT-3 (*At5g38780*)

- 1. **Expression profile**- R, Leaves, Se, Se_{NaCl}, Se4°C, Water treated leaves
- 2. **Available knock-out mutants**- Y-homozygous/exon
- 3. **Over-expression** - Y
- 4. **Promoter-GUS** – Y
- *Microarray: detected in senescent leaves /SA, JA mutants/



MT-4 (*At5g38100*)

- 1. Expression profile-St, L, F, R, Se, Se-NaCl, Se-4°C
- 2. Available knock-out mutants-?-one putative, 5'UTR
- 3. Over-expression - Y
- 4. Promoter-*GUS* - Y

MT-9 (*At5g68040*)

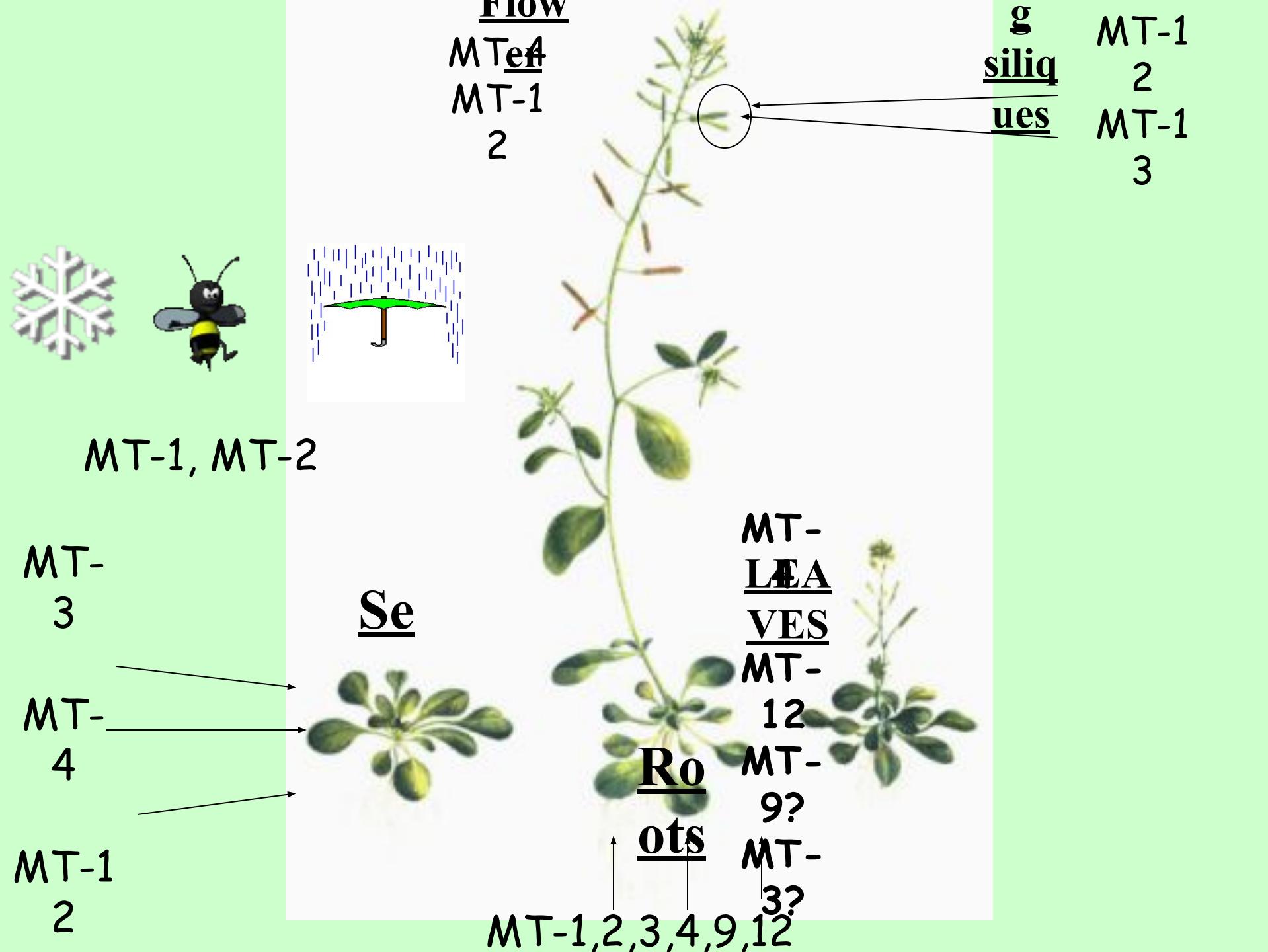
- 1. Expression profile - R
- 2. Available knock-out mutants- Y/homozygous/exon
- 3. Over-expression - Y
- 4. Promoter-*GUS* - Y

MT-12 (*At5g56300*)

- 1. **Expression profile**-developing seeds, F, R, L, Se, Se-NaCl, Se-4°C
- 2. **Available knock-out mutants** - **Y**/heterozygous
- 3. **Over-expression** - **Y**
- 4. **Promoter-GUS** - **Y**

MT-13 (*At5g26420*)

- 1. Expression profile-exclusively in developing seeds
- 2. Available knock-out mutants-? two putative mutants
- 3. Over-expression - Y
- 4. Promoter-*GUS* -Y



MT-No	Knock-out mutants	Over-expression	Promoter-GUS	Protein expression vector
MT-1	YES (intron)	✓Y	✓Y	✓pH 9/ Topo
MT-2	N/A	✓Y	✓Y	✓pHis 9/ Topo
MT-3	YES (exon) +5UTRSalk_148019)	✓Y	✓Y	✓pHis 9/ Topo
MT-4	? 5` UTR Salk_007118	In progress	✓Y	✓pHis 9/ Topo
MT-9	YES (exon) +5` UTR Salk_103692	In progress	✓Y	In progress
MT-12	hetero(exon) +3 additional Salk)	In progress	✓Y	✓pHis 9/ Topo
MT-13	?	In progress	✓Y	✓pHis 9/ Topo
	Intron Salk_047730 Intron Salk_088960			