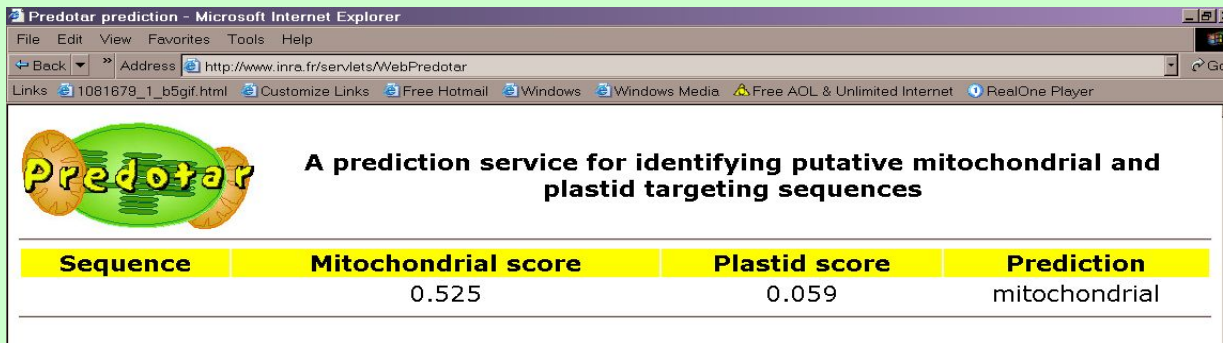


# MT-1 ( At5g37990)

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



Predotar prediction - Microsoft Internet Explorer

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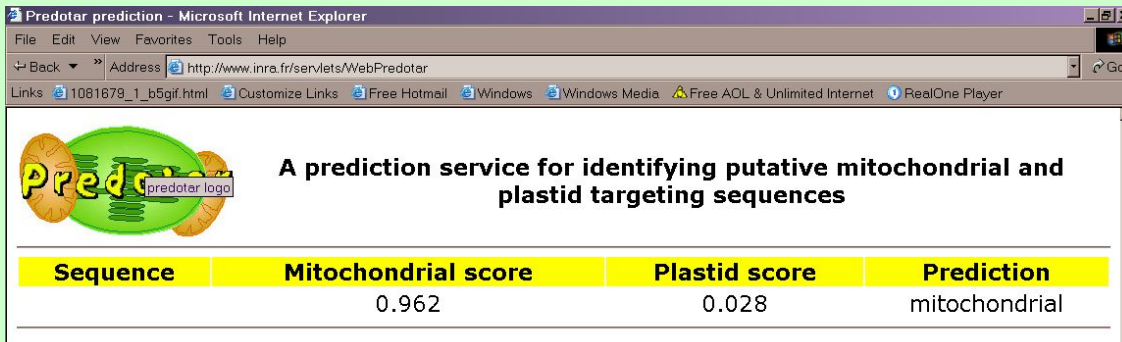
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**Predotar** A prediction service for identifying putative mitochondrial and plastid targeting sequences

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, H<sub>2</sub>O stress
- 2. **Knock-out mutants**-NO
- 3. **Over-expression** - YES
- 4. **Promoter**-GUS - YES
- \*putative signal peptide
- Mlsafwghasaiaiaspvvsivgfgdrttirptygemkfvdvverpr – 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<sub>NaCl</sub>, Se<sub>4°C</sub>, 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**

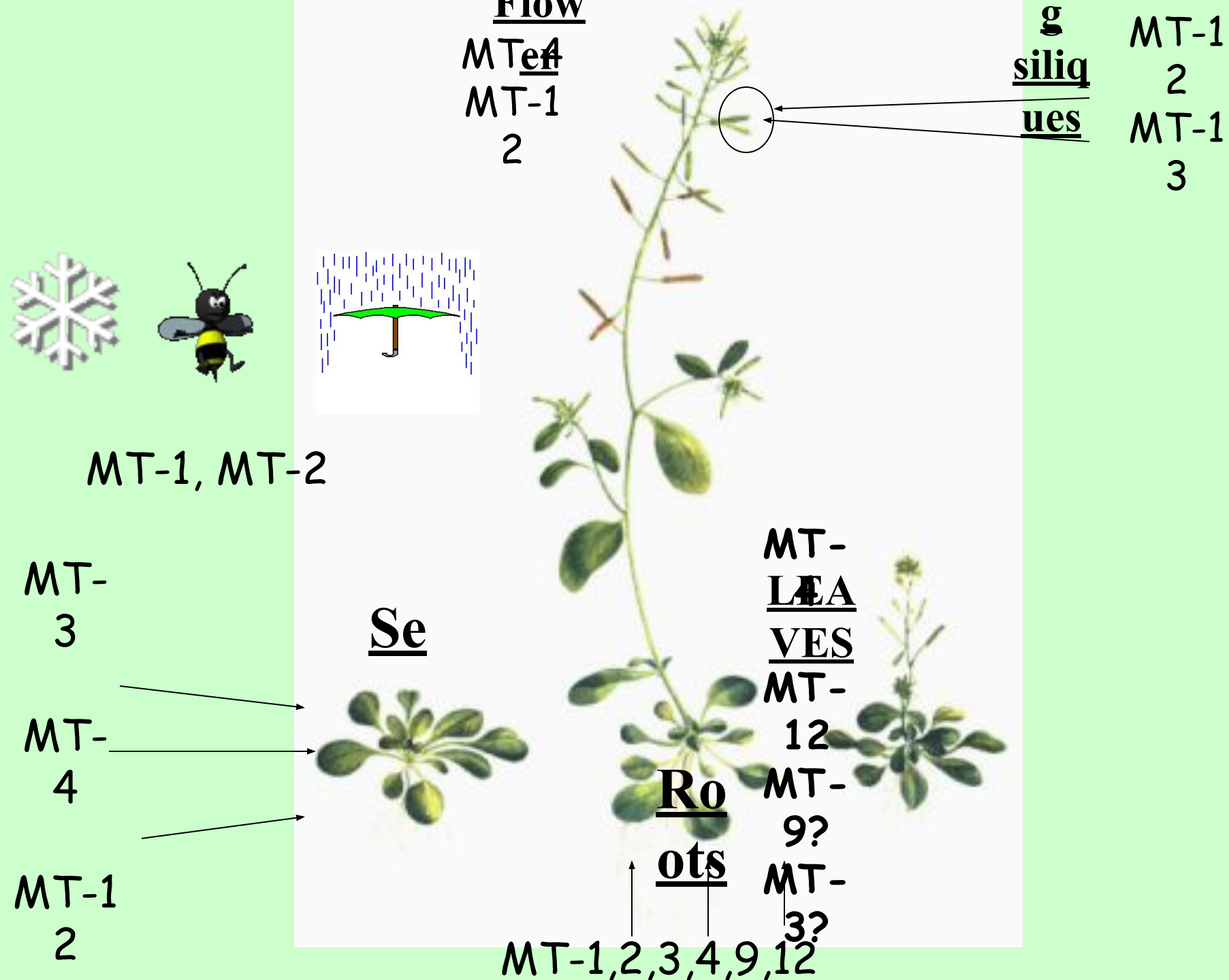
# MT-12 ( *At5g56300* )

- 1. **Expression profile**-developing seeds, F, R, L, Se, Se- $\text{NaCl}$ , Se- $4^{\circ}\text{C}$
- 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 exprerssion 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	? Intron Salk_047730 Intron Salk_088960	In progress	Y ✓	✓pHis 9/ Topo