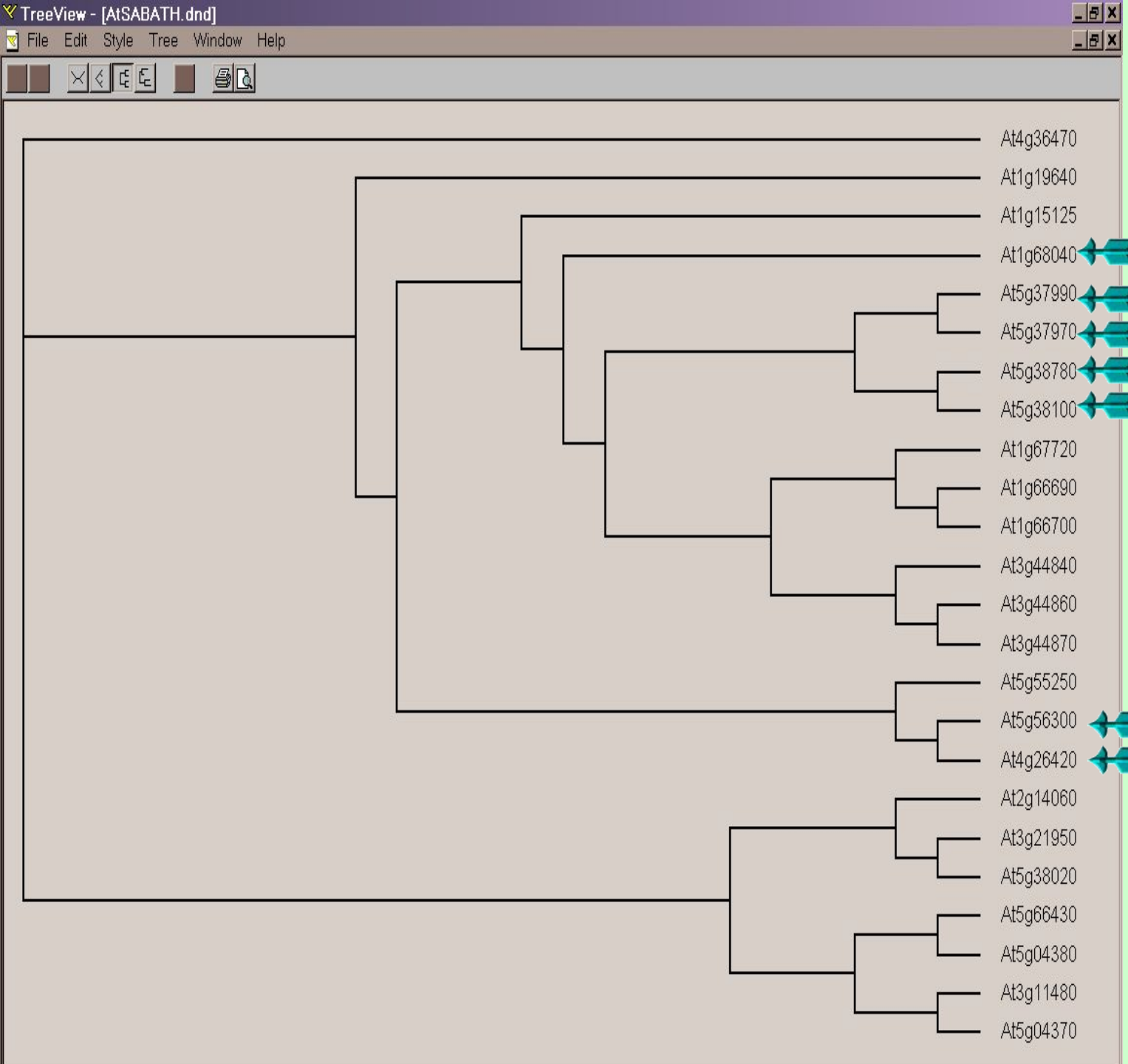
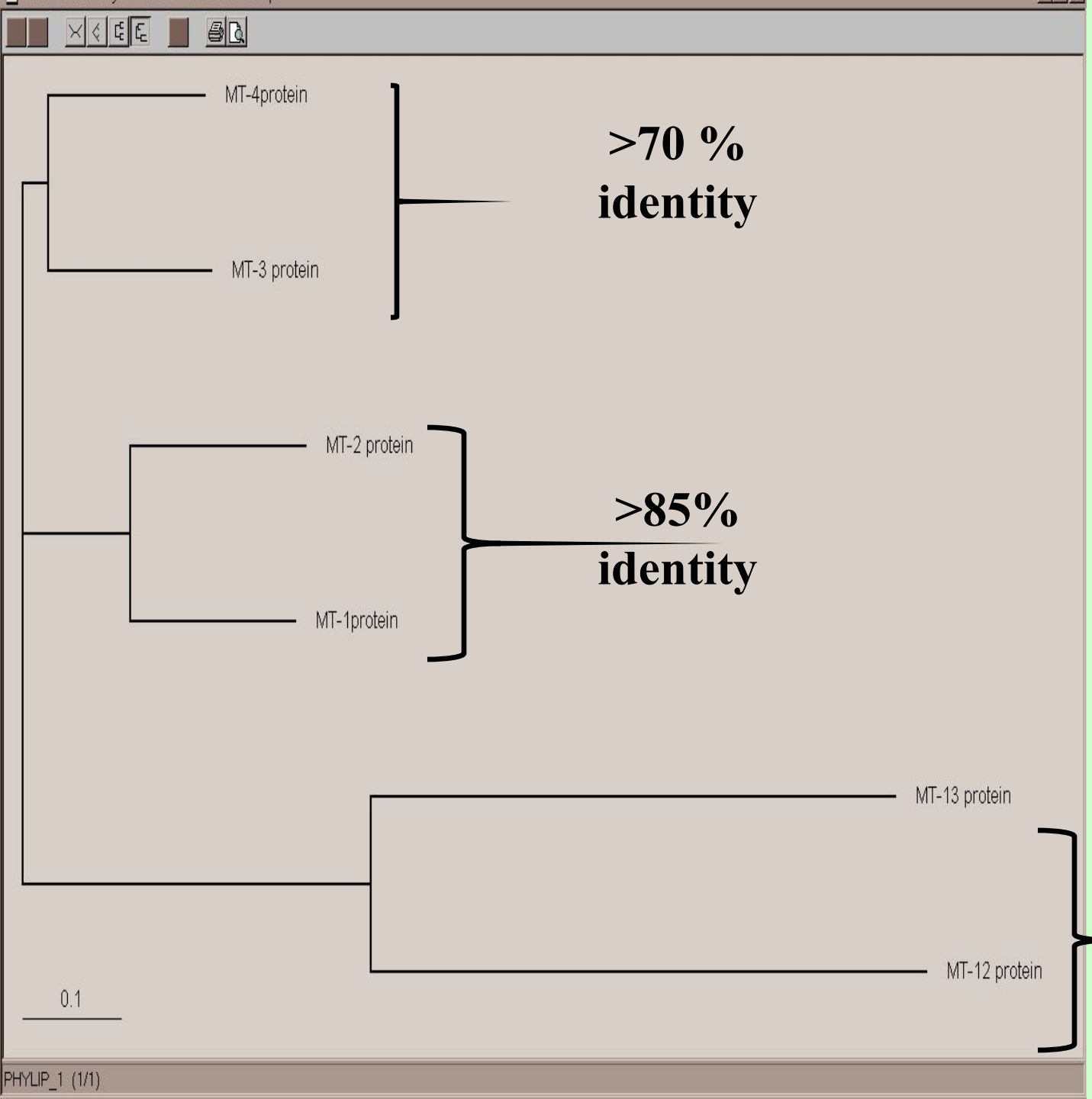
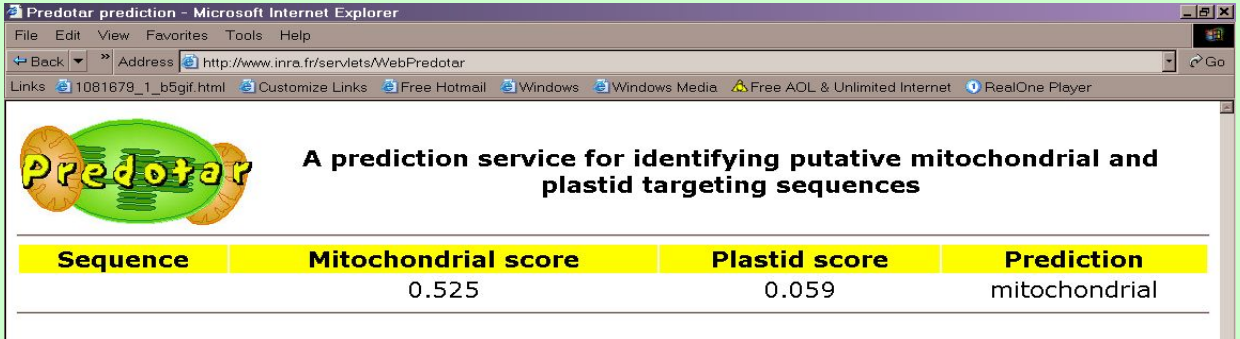

TreeView - [AtSABATH.dnd]
File Edit Style Tree Window Help
At4g36470
At1g19640
At1g15125
At1g68040
At5g37990
At5g37970
At5g38780
At5g38100
At1g67720
At1g66690
At1g66700
At3g44840
At3g44860
At3g44870
At5g55250
At5g56300
At4g26420
At2g14060
At3g21950
At5g38020
At5g66430
At5g04380
At3g11480
At5g04370


MT-4protein
MT-3 protein
>70 %
identity
MT-2 protein
MT-1protein
>85%
identity
MT-13 protein
MT-12 protein
~60% identity
0.1
PHYLIP_1 (1/1)

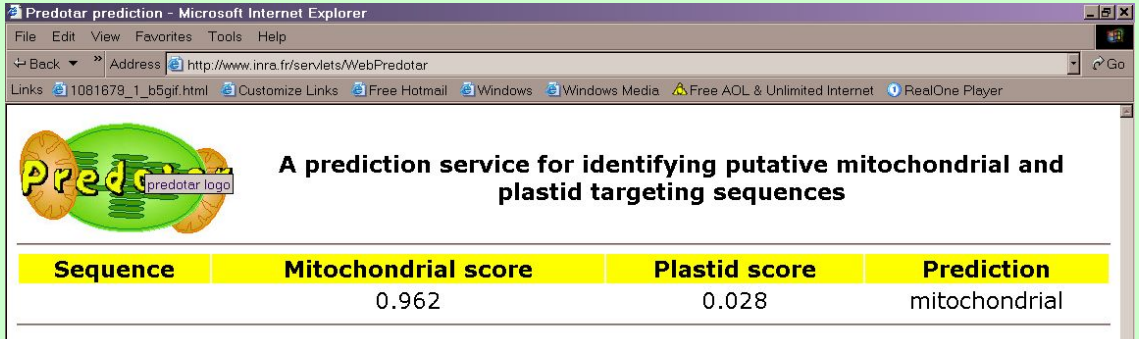
MT-1 *(At5g37990)*

- 1. **Expression profile-** roots (R), leaves (L), Se –treated with NaCl, 4°C, H_2O stress
- 2. **Available knock-out mutants**–Y/homozygous/intron
- 3. **Over-expression** – Y
- 4. **Promoter-***GUS* -Y
- *putative signal peptide
- mlsaflghasaiaiaspvvsivgirrqtygemkhvgvvekqr



MT-2 *(At5g37970)*

- 1. **Expression profile** – roots (R), leaves (L), Se –treated with 4ºC, H_2O stress
- 2. **Knock-out mutants**-NO
- 3. **Over-expression** - YES
- 4. **Promoter**-GUS - YES
- *putative signal peptide
- Mlsafwghasaiaiaspvvsivgfqgdrttirrptygemkfvdvverpr – no predicted cleveage signal



MT-3 *(At5g38780)*

- 1. **Expression profile-** R, Leaves, Se, Se_{NaCl}, Se_{4^oC}, 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-$_{4^oC}$
- 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-$_{4^oC}$
- 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-1, MT-2

Flow

MT-4

MT-12

g

siliq

ues

MT-12

MT-13

MT-3

MT-4

MT-12

Se

Ro

ots

LEA

VES

MT-12

MT-9?

MT-3?

MT-1,2,3,4,9,12

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