```
T-COFFEE, dev uciel@20151008 17:27 (dev uciel@20151008 17:27)
Cedric Notredame
CPU TIME:0 sec.
SCORE=654
BAD AVG GOOD
Alvrata
               67
Mdomestica
               61
Mtruncatula
               58
Slvcopersicum
               63
BrapaFPsc
               68
Egrandis
               62
               70
Carandiflora
               62
Ppersica
               68
Csinensis
Lusitatissimum
               59
               68
Cclementina
               60
Gmax
               68
Rcommunis
               67
Spurpurea
              70
Bstricta
Csativus
               62
               67
Mesculenta
Mouttatus
               63
               66
Esalsugineum
               65
Cpapaya
Athaliana
               68
Crubella
               70
               68
Ptrichocarpa
Pvulgaris
               60
Graimondii
               64
Stuberosum
               64
cons
             Alvrata
             -C----CUA-A--CCCUA-AUA-AGCC-----UUCA
Mdomestica
             -A----GGGCA--CCAUCAAUC-----
Mtruncatula
             Slycopersicum
             BrapaFPsc
             -C----CCC------A----C
Egrandis
             -G--U-AGC----------------
Cgrandiflora
             -U----UUC------UGG
Ppersica
             -U----GUU-------C-C-C------CU
Csinensis
             Lusitatissimum
             -U----C------CU
Cclementina
```

Gmax

Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	-A
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	- UCUC U - GUA - G - CU U - U CC - U - CUCCAAUAUAUAC
cons	

Alyrata	U-CUCUCUA-CAGA	
Mdomestica	<mark>G-UA-CG</mark> UUA	
Mtruncatula	U- <mark>GC</mark> -CCUU-UGG	CHCHC
	U-CUACC-CUA-CACCU	CUGUC
Slycopersicum		
BrapaFPsc	<mark>U-CUA</mark> UCG <mark>CUC</mark> - <mark>U</mark> AG <mark>G</mark>	
Egrandis	<mark>U-CC</mark> -UC- <mark>-GC</mark> -CAG <mark>UGC</mark>	- GGUC
Cgrandiflora	CUCUC-U	
Ppersica	U-UA-UGUUA	
Csinensis	U-CU-UCUU-CG	A
Lusitatissimum	U-CC-CCAU-CG	^
Cclementina	U-CU-UCUU-CG	~
	0-60-0600-6	A
Gmax	C <mark>A</mark> -U	
Rcommunis	<mark>AUAUU</mark> -CU- <mark>UCU-U-C</mark> -AGAU	
Spurpurea	C <mark>aua</mark> u-cu- <mark>a</mark> cucuc <mark>c</mark> -ag <mark>g</mark> a	
Bstricta	U-CUCUCUG-UAGC	
Csativus	UC-U-U <mark>A</mark> UCAGA	
Mesculenta	-CUAUUGUCG-AAAAA	
Mguttatus	U-CUCU <mark>U</mark> U-CAUGU	
	<mark>G</mark> C-U-U <mark>U</mark> UC-U	
Esalsugineum		
Cpapaya	CCCUU-UG-GCCUCUUAAAUAC	
Athaliana	U <mark>U</mark> CCAUCUU- <mark>A</mark> <mark>A</mark> -AGA	
Crubella	CUCUC-U	
Ptrichocarpa	CAGG-A	
Pvulgaris	CA-UCUU-AA	
Graimondii	U-CU-UCUUUAAAU-AGGAGAACCU	
Stuberosum	U-CUACC-CCA-CAC	
Stuberosum	U-CUACC-CCA-CAC	
cons		
Alyrata	-UAACCCUUUUUGCU	C
Mdomestica	-UCGCUGUCCAUC	U
Mtruncatula	AUCCAUCUUAUUA	
Slycopersicum	-UU-UUUUCUUUUUUCG	
BrapaFPsc	- UU - UUC <mark>G</mark> CUUUAUCU - UUUG <mark>U</mark> UCUCU	U
	-00-00CGC000A0C0-000GOC0C0	U
Egrandis	-UU- <mark>GUG</mark> U <mark>G</mark> UUUCUGUG	
Cgrandiflora	- <mark>uu-cucuuuc</mark> uu	
Ppersica	- <mark>UCGCUG</mark> U <mark>C</mark> CAU <mark>C</mark>	
Csinensis	-UCGAUCUUCACU	U
Lusitatissimum	-UCCCUAUCUAUAUA	U
Cclementina	-UCGAUCUUCACU	
Gmax	-CUUUCCCUUC	
_	-UUGCUAUAUUCACU	
Rcommunis		
Spurpurea	- <mark>UUG</mark> <mark>CUAC</mark> -UUC <mark>UC</mark> U	C

Bstricta	-UU-CUCUCUUUUUGCUU
Csativus	-UCACUUCCAUGGUGGUUUC
Mesculenta	-UUGAU
Mguttatus	-UGUGUGUGUGUGUGU
Esalsugineum	-UU-UUCCCCUU
Cpapaya	CCCAU
Athaliana	-AAACCCUUUUUGCUC
Crubella	-UU-CUCUCUUUCUUU
Ptrichocarpa	-UUG <mark>u</mark> uau-u <mark>a</mark> cucuc
Pvulgaris	-UAGCCCACACCACAUAC
Graimondii	-UCAACCCUAGUU
Stuberosum	- <mark>UU - UUUU<mark>UGU</mark> <mark>U</mark>G UU<mark>GU</mark>UGU</mark>
cons	
Alvrata	CIIII AA HGUGUGA <mark>GU</mark> A CC HC H
Alyrata	-CUU-AAUGUGUGAGUACC-UCU
Mdómestica	- CUAUCUGU - U UCU GUG U UAGAA
Mdómestica Mtruncatula	- CUAUCUGU - U UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU
Mdómestica Mtruncatula Slycopersicum	- CUAUCU <mark>G</mark> U - U UCU GUG U UAGAA - CUU - AAUG - C U <mark>U</mark> CUU GUU - GUG - UA - U - AU AUAUUUA AG GCCUCUUA
Mdómestica Mtruncatula Slycopersicum BrapaFPsc	- CUAUCUGU - U UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUG - UA - U - AU AUAUUUA AG GCCUCUUA - CUU - UU AUAUUGA AA CACUUUUU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	- CUAUCUGU - U UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUG - UA - U - AU AUAUUUA AG GCCUCUUA - CUU - UU AUAUUGA AA CACUUUUU - CGC - GC AC GGCAC A CGC
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUG - UA - U - AU AUAUUUA AG GCCUCUUA - CUU - UU AUAUUGA AA CACUUUUU - CGC - GC AC GGCAC A CGC - CUC - AA GAAAAAAAA CCCUUUUU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUU - GUU - GUU AUAUUUA AG GCCUCUUA - CUU - UU AUAUUGA AA CACUUUUU - CGC - GC AC GGCAC A CCCUUUUU - CUUUCCCC - A GCU GAG C UCAAA
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUG - UA - U - AU AUAUUUA AG GCCUCUUA - CUU - UU AUAUUGA AA CACUUUUU - CGC - GC AC GGCAC A CGC - CUC - AA GAAAAAAAA CCCUUUUU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU GUU - GUU - GUU - GUU AU AU AU AU AU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU - GUU - GUU - GUG - U - AU - AU - AU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU - GUU - GUU - GUG - U - AU - AU - AU
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU - GUU - GUU - GUU - GUU - AAUG - C
Mdómestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis	- CUAUCUGU - U - UCU GUG U UAGAA - CUU - AAUG - C U U CUU - GUU - GUU - GUG - U - AU - AU - AU

- CUGUCGCC - UUCUUU - - - - - GAG - - - U - - UCUUU - GUG - U - - - - - - - - - UGU - - AG - - - UUUUUGUU

-CUU-AA------GGUGU---A---CC-UC--U

-CUC-AA-----GAAAA--AC---CCCUUUUU

-----GUU-CUCU------GUU----UUCCUUU -CUU-CUCU-UCAUU------GU----CUCUCUUU

-CUU-AUUG-UCAUU-----UA---CACUCUUU

-GUG-U----AU--AUAUUUA--AG---GCCUUUUU

Mesculenta

Mguttatus Esalsugineum

Athaliana

Pvulgaris

cons

Graimondii Stuberosum

Crubella Ptrichocarpa

Cpapaya

Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta	C-AAU
Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	G-AAGUUUAUUCAA-GGG C-UAUGCGUUUAUGUCGUCCUC G-AAU-CUUGUGGUA-UA- C-UUGCU-CCUAUUCGA-CGG CAUGUCCUCUCGUCUCGUCCUCUUC
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta	AA - A - G - GAAAUGAGU GAAG UUU - CUC - CUC - CA UA - UA

Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	A-GG <mark>GUC</mark> UGAG <mark>GGUC</mark> GAAGUUG- AAA-AGAAA-GAGUGAAA
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	
cons	
Alyrata Mdomestica Mtruncatula	UU UU U - <mark>UGAUCAUGC</mark> - G - <mark>GGUUUG - GU GG</mark> - A U GAUCACGU - G - GGUUU <mark>C</mark> - A U <mark>C - U</mark> - U GUUCAUGU - G - GG <mark>C</mark> UUA -

Slycopersicum	G
BrapaFPsc	CUUUUGAUCAUGU-G-GGUUUG-
Egrandis	UUUCCCUUCAUGU-G-GAUUUG-
Cgrandiflora	UUUUUGGUCAUGU-G-GGUUU <mark>U</mark> G
Ppersica	UU UG - A U G - A GAUCAUGU - G - GGUUUA -
Csinensis	UUUU-CA-UGUUCAUGU-G-GGUUUA-
Lusitatissimum	AUUAG-UCAUCAUGU-G-GGUUUG-
Cclementina	UUUU-CA-UGUUCAUGU-G-GGUUUA-
Gmax	UU-UG-UCUUCACGU-G-GGUUUA-
Rcommunis	UUUC-AG-CUUUCAUGU-G-GGUCUA-
Spurpurea	CC-AG-CUUUCAUUU-G-GGUUUA-
Bstricta	UUUCUGGUCAUGC-G-GGUUUG-
Csativus	UAAUUUCAUGU-G-GGUUUUG
Mesculenta	UUUU-AG-CUUUCAUGU-G-GGUUUA-
Mguttatus	AAUGAAUUCAUGGUG-GGUUUG-
Ešalsugineum	UU UUC <mark>U</mark> GCU - <mark>CU</mark> CUUUGAUCAUG <mark>A</mark> - G - GGUUUG -
Cpapaya	AG-CUUUCAUGU-G-GGUUUA-
Athaliana	UUU <mark>U</mark> U <mark>GA</mark> UCAUG <mark>C</mark> -G-GGUUU <mark>G</mark> -
Crubella	UUUUG <mark>G</mark> UCAUGU-G-GGUUU <mark>U</mark> G
Ptrichocarpa	CUAGCU-AG-CUUUCAUGU-G-GAUUUA-
Pvulgaris .	CU- <mark>UC</mark> -UCUUCAC <mark>A</mark> U-G-GGUUUA-
Graimondii	U <mark>C</mark> UU- <mark>U</mark> G- <mark>C</mark> <mark>U</mark> UUCAUG <mark>G</mark> -GAGGUUUG-
Stuberosum	GUUUCAUG <mark>G</mark> - <mark>A</mark> -GGUUUG-
cons	*** . * . *
A1	ACAAAACACHCHCHHA CACACAHCHUU CCC
Alyrata Mdomestica	ACAAAAGAGUCUCUUA - CAGAGUUCUUU - GGC
MUUUMACTICA	GC AAA - GCGIIIIIICIIIIA - CAGAGIIIICIIIII - GGC

Mdomestica GCAAA-GCGUUUCUUA-CAGAGUUCUUU-GGC - <mark>G</mark>CAAA - GGGUU<mark>GU</mark>UUA - CAGAGUUU<mark>U</mark>UUUGGC Mtruncatula Slycopersicum ACAAA-GGGUUUCUUA-CAGAGUUCAUU-GGC ACAAAAG<mark>AA</mark>UUUCUUA - CAGAGUU<mark>CU</mark>UU - GGC BrapaFPsc GCAAA - GGGUUUCUUA - CAGAGUUUAUU - GGC Egrandis Cgrandiflora ACAAAAGAGUCUCUUA - CAGAGAUCUUU - GGC **P**persica -GCAAA-GCGUUUCUUA-CAGAGUUUAUU-GGC - ACAAA - G<mark>U</mark>G<mark>C</mark>UUCUUA - CAGAGUUUAUU - GGC Csinensis ·<mark>U</mark>CAAA - GGGUUUCUUA - CAGAGUUUAUU - GGC Lusitatissimum **Cclementina** - ACAAA - G<mark>U</mark>G<mark>C</mark>UUCUUA - CAGAGUUUAUU - GGC -ACAAA-GGGUU<mark>G</mark>CUUA-CAGAGUUU<mark>C</mark>UU-GGC Gmax - ACAAA - GGGUUUCUUA - CAGAG<mark>C</mark>UUAUU - GGC Rcommunis **Spurpurea** - GCAGA - GGGUUUCUUA - CAGAGUUUAUU - GGC - ACAAAAG<mark>AGUC</mark>UCUUA - CAGAG<mark>AUCU</mark>UU - GGC Bstricta UAAAGCAAA-GG<mark>A</mark>UUUC<mark>CC</mark>AA<mark>U</mark>AGAGUUUAUU-GGC Csativus Mesculenta - ACAAA - GGGUUUCUUA - CAGAGUUUAUU - GGC **Mguttatus** -UCAAA-GGGUUUCUUA-CAGAGUUUAUU-GGC Esalsugineum - ACAAAAG<mark>A</mark>GUUUCUUA - CAGAG<mark>AUCU</mark>UU - GGC ----GCAAA-GGCUUUCUUA-CAGAGUUUAUU-GGC Cpapaya

Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	ACAAAAGAGUCUCUUA - CAGAGAUCUUU - GGCACAAAAGAGUCUCUUA - CAGAGAUCUUU - GGCGCAAA - GGGUUUCUUA - CAGAGUUUAUU - GGCACAAA - GGGUUCCUUA - CAGAGUUUCUU - GGCGCAAA - GGGCUUCUUA - CAGAGUUCAUU - GGCACAAA - GGGUUUCUUA - CAGAGUUCAUU - GGC
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	AUUCUGUCCACCUCC - U - CUC UCUA UAUG AUUCUGUCCACCUCC - U - CUU UCU UCGA AUUCUGUCCACCUCC - A - CUU CCUC UCUCUC AUUCUGUCCACCUCC - CUCGU UCUUUU AUUCUGUCCACCUCC - U - UUC UGAA - UAUA AUUCUGUCCACCUCC - U - CCU CCUA - CAUC AUUCUGUCCACCUCC - U - CUC UCUA - UAUA AUUCUGUCCACCUCC - U - CUC UUU U AUUCUGUCCACCUCC - G - UUC CCCA - UCGAUU AUUCUGUCCACCUCC - G - UUC CCCA - UCGAUU AUUCUGUCCACCUCC - G - UUC CCCA - UCGAUU AUUCUGUCCACCUCC - A - CU UCU
cons	******
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	UAUAU

Cgrandiflora	AUAUGUUUGUU
Ppersica P	UC
Csinensis	GAACU
	U-AC
Lusitatissimum	
Cclementina	GAA <mark>U</mark> CU
Gmax	G <mark>C</mark> -
Rcommunis	AC
Spurpurea	A
Bstricta	UAUG
Csativus	ÜÜ Ü <mark>C</mark> Ü
Mesculenta	AA
	UUUCUUUUUC <mark>UUUU</mark> A-AUUU
Mguttatus	
Esalsugineum	<mark>C</mark> AUGU
Cpapaya	<mark>C</mark> C
Athaliana	UAUGU
Crubella	AUAUGUUUĞÜ
Ptrichocarpa	A
Pvulgaris [']	GACU
Graimondii	GAAC
Stuberosum	<mark>UUCGA</mark> A-AAA
Scuber osum	<mark>0</mark> 000A
cons	
Alyrata	<mark>C</mark>
Mdomestica	<mark>UC</mark> UU <mark>UCUC<mark>C</mark>-CUCU-C</mark>
Mtruncatula	C <mark>UCUCU-CAC</mark> UG-UA
Slycopersicum	<mark>A</mark> G
BrapaFPsc	ACGGUA-UAAGUGU-ACG
Egrandis	AGAAAG <mark>AG</mark> CCCCGUUGUUUUAAAG <mark>G</mark> GG-AA <mark>A</mark>
	GUAGUAAGCGU-AAG
Cgrandiflora	
Ppersica	ACU <mark>CCC</mark> UGUGUAU
Csinensis	-GAAAGCCUUU-UUC <mark>U</mark>
Lusitatissimum	- <mark></mark> <mark>G</mark> <mark>UA</mark> <mark>CUG</mark> -AAAU <mark>C</mark> -UA <mark>UC</mark>
Cclementina	-GAAAGCC <mark>UUU-UU</mark> C <mark>U</mark>
Gmax	CC
Rcommunis	AAUUUCUC <mark>U</mark> -CUUU-UA <mark>U</mark> UU-UCCC
Spurpurea	ΔΙΙΙΙ Δ
Bstricta	GUA-UAAGCGU-ACG
Csativus	AUUA-AAAU <mark>U</mark> U- <mark>UU</mark> G
Mesculenta	UCCC
Mguṭtatus	G <mark>a</mark> aguaa <mark>a</mark> g <mark>a</mark> uaagaacu
Esalsugineum	GUA-UAAGU <mark>A</mark> U-AC <mark>G</mark>
Cpapaya	AAUUC <mark>A</mark> <mark>AAA-AAA-</mark> AAA <mark>A</mark>
Athaliana	
Crubella	
Ptrichocarpa	AUU
- 10ou. pu	

Pvulgaris Graimondii Stuberosum cons	C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum cons	U
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	

Gmax Rcommunis UAL Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii	JU	
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cons

Alvrata Mdomestica Mtruncatula Slvcopersicum BrapaFPsc **Egrandis** Cgrandiflora **Ppersica** Csinensis Lusitatissimum **Cclementina** Gmax Rcommunis **Spurpurea** Bstricta Csativus Mesculenta **Mguttatus** Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa **Pvulgaris** Graimondii Stuberosum

GGGAGGUGGACAUAUUGCCAACAGAGAUCUGUUAGG UGGAGGUGGCAUACUGCCAACAGAG<mark>U</mark>UCUGUUGGA AGGAGGUGGGCAUACUGCCAACAGA<mark>CCA</mark>CUGUUAGC UGGAGGUGGCAUACUGCCAAUAGAGCUGUGUUGGU AGGAGGUGGCAUACUGCCAAUAGAGAUCUGUUGGG AGGAGGUGGGCAUACUGCCAAGUGAGCUCUGUUGGC AGGAGGUGGCAUACUGCCAAUAGAGAUCUGUUAGG **UGGAGGUGGGCAUACUGCCAACUGAGCUCUGUUGGC UGGAGGUGGGCAUACUGCCAACUGAGCUCUGUUGGC GU**GAGGUGGCAUACUGCCAACAGAACUCUGUUGGU **UGGAGGUGGGCAUACUGCCAACUGAGCUCUGUUGGC** CGGAGGUGGAUAUACUGCCAAUAGAGCUGUGUUGGC **UGGAGGUGGGCAUACUGCCAACUGAGCUCUGUUGGU** UGGAGGUGGCAUACUGCCAACUGUGCUCUGUUGGU AGGAGGUGGCAUACUGCCAAUAGAGAUCUGUUAGG **GGGAGGUGGGCAUACUGCCAACUGAGUUCUGUUGGA** UGGAGGUGGCAUACUG<mark>U</mark>CAA<mark>G</mark>UGAGCUCUGUUGG<mark>U</mark> AGGAGGUGGCAUACUGCCAACUGAGCUGUGUUGGA UGGAGGUGGCAUACUGCCA<mark>G</mark>UAGAGAUCUGUUAGG AGGAGGUGGGCAUACUG<mark>U</mark>CAACAGAGCUCUGUUAGC AGGAGGUGGGCAUACUGCCAAUAGAGAUCUGUUAGG AGGAGGUGGGCAUACUGCCAAUAGAGAUCUGUUAGG UGGAGGUGGCAUACUGCCAAC<mark>C</mark>GAGCUCUGUUGG<mark>U</mark> **CGGAGGUGGACAUGCUGCCAAUAGAGCUCUGUUGGC UGGAGGUGGGCAUACUGCCAACUGAGCUCUGUUGGC** UGGAGGUGGCAUACUGCCAAUAGAGCUGUGUUGGU

Alyrata	GUUUCUUUGUA-AAA-CCCCUCAUGAU <mark>U</mark> U <mark>G</mark> -A-
Mdomestica	UUCUCUUUGUA-AAA-CCC-UCGUGA <mark>GU</mark> GUA-
Mtruncatula	UUCUCUUUGUA-AAG-CCU-UCCUGAUAUA-
Slycopersicum	UUCUCUUUGUA - AAA - CCC - UCGUGAUA C A -
BrapaFPsc	GUUUCUUGUA-AAA-CCCCUCAUGAUUUC-A-
Egrandis	CUCUCUUUGUGAAAA - CCC - UCGUGAUA C - A -
Cgrandiflora	GUUUCUUGUA-AAA-CCCCUCAUGAUGUA-
	UUCUCUUUGUA-AAA-CCC-UCGUGACCGAC
Ppersica Coincia	UUCUCUUUGUA -AAA -CCC -UCGUGACC G AC
Csinensis	UUCUCUUUGUA-AAA-CCC-UCGUGAUUUA-
Lusitatissimum	CUC <mark>A</mark> CUUUGUA-AAA-CC <mark>U</mark> -UC <mark>C</mark> UGAU <mark>A</mark> UA-
Cclementina	UUCUCUUUGUA-AAA-CCC-UC <mark>G</mark> UGAU <mark>U</mark> UA-
Gmax .	UUCUCUUUGU <mark>C</mark> -AA <mark>G</mark> -CCU- <mark>C</mark> CGUGAU <mark>A</mark> <mark>CU</mark> -A-
Rcommunis	CUCUCUUUGUA-AAA-CCC-UCGUGAUUUA-
Spurpurea	CUCUCU <mark>C</mark> UGUA - AAA - CCC - UCGUGAU <mark>U</mark> <mark>A</mark> <mark>U</mark> -
Bstricta	GUUUCUUUGUA-AAA-CCCCUCAUGAUGUA-
Csativus	UUCUCUUUGU <mark>U</mark> - A <mark>C</mark> AUCCC - UCAUGAU <mark>G</mark> <mark>C</mark> <mark>C</mark> -
Mesculenta	CUCUCUUUGUA-AAA-CCC-UCAUGAU <mark>C</mark> AUGU <mark>C</mark> -
Mguttatus	UUCUCUUUG <mark>C</mark> A-AAA-CCC-UCGUGA <mark>AA</mark> <mark>C</mark> <mark>U</mark> -
Ešalsugineum	GUUUCUUUGUA-AAA-CCUUUCAUGAUUUUGA-
Cpapayă	UUUUCUUUGUA-AAA-CCC-UCAUGAUAUU-
Athaliana	GUUUCUUUGUA-AAA-CCCCUCAUGAUUUG-A-
Crubella	GUUUCUUUGUA-AAA-CCCCUCAUGAUGUA-
Ptrichocarpa	CUCUCUUUGUA-AAA-CCC-UCGUGAUUAU-
Pvulgaris	UUCUCUUUGUA-AA <mark>G</mark> -CCU-UCGUGAU <mark>A</mark> UA-
Graimondii	UUCUCUUUGUA-AAA-CUC-UUGUGAUGCG-
Stuberosum	UUCUCUUUGUA-AAA-CCC-UCAUGAUGCA-
Scuber osum	OCCOCOOCO AAA CCC OCAOCAOC
	* ** ** * * * ***
cons	* ** ** * * ***
Alyrata	UAU- <mark>U</mark> UUCAA
Mdomestica	<mark>UAU-AUGU</mark> A-UC
Mtruncatula	<mark>CUAUUU</mark> U-C-UUA
Slycopersicum	CG
BrapaFPsc	UGU-A
Egrandis	<mark>AU-A</mark>
Cgrandiflora	UAA
Ppersica	GAUGAUAU-C
Csinensis	UCC-AUCCA-G
Lusitatissimum	<mark>CCCUUCAGUU-C-A-GCUA</mark>
Cclementina	UCC-AUCCA-G
Gmax	UAA-AUC-UC-A-GUU-
Uiilax	u
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Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus	G
Esalsugineum	<mark>U</mark> <mark>AUAA</mark> G
Cpapaya	UCUC
Athaliana Crubella	GA <mark>UAGU</mark> G <mark>A</mark> UC <mark>AA</mark> U- <mark>A</mark> AGAUC-AC
Ptrichocarpa	CGUC-A-U-CUUUUA-GCUCUUUC
Pvulgaris	GCCCUC-A- <mark>C</mark> -C <mark>G</mark> CUUCUU
Graimondii Stuberosum	G <mark>CUU</mark> - <mark>U-U</mark> <mark>C</mark> UC
Stuber osum	AUA
cons	

Alyrata	UG <mark>GC UCU</mark> - U <mark>GG UG</mark> A	-
Mdomestica	CGAUCCUCC-UCAAGAC	
Mtruncatula	UGCCU <mark>AA-C</mark> <mark>U</mark> CUAAC <mark>U</mark> A-	
Slycopersicum	<mark>GAGA</mark> <mark>-</mark> <mark>G</mark> UGA	
BrapaFPsc	UG <mark>G</mark> C UCA - U GG <mark>U</mark> AA	-
Egrandis	A	U
Cgrandiflora	<mark>UCGGAUGAAUG</mark>	-
Ppersica	UGCUGAUUG-UUAAAA-	_
Csinensis	UGCUUUG-CGACAAACG	_
Lusitatissimum	CU-CCGCAGCC-	
Cclementina	UGCUUUG-CGACAAACG	
Gmax	UUCU UUU - C - UGG CUA U -	_
Rcommunis	UUC-CUAUUCUGCAA-GGAAGA-	
Spurpurea	UCCCUUG-GAAGAAAGAAAGAAAGA	_
Bstricta	CCGA-UGGAUA	
Csativus	UUUC - UGA - U - GG AAA	
Mesculenta	UCCC - CUG-U - GA AAC CCA -	
		-
Mguttatus		
Esalsugineum	CCAUUUGCU	-
Cpapaya	UCUCUG-CUAAACA-	
Athaliana	UCAU-UCGG-UGAAUAC	
Crubella	<mark>UCGGAU</mark> <mark>GAAUG</mark>	
Ptrichocarpa	U <mark>CU</mark> C UUG - <mark>C</mark> <mark>A</mark> A <mark>G</mark> AAAGA - <u></u> - AAGA -	
Pvulgaris	<mark>-uua-c</mark> cug <mark>u</mark> <mark>u</mark> aa <mark>uu</mark> -acca-	
Graimondii	UCCCUUG- <mark>G</mark> <mark>A</mark> AAAA <mark>U</mark> AG <mark>U</mark> -	
Stuberosum	GAG <mark>A</mark> A	١A
cons		
00113		
Alyrata	- <mark>UC</mark> <mark>AAGAUU</mark> -A	
Mdomestica	CA-AGGGUAAGAACU A-U	-
Mtruncatula	CC-ACGAGAGCUA-UC-A	Α
Slycopersicum	-UUUGAUCG <mark>U</mark> U	-
BrapaFPsc	-UCAAGAUCUCUAAGAU	_
Egrandis	-UUUGUU	_
Cgrandiflora	- <mark>U</mark> UUAAGAU	
Ppersica	UC-UGGUAAGAAUCA-UC-U	
Csinensis	UC-AAGGUAAAAGA-UC-A	
Lusitatissimum	UG-UUGUUGUUCAUCC-CC-A	
Cclementina	UC-AAGGUAAAAGA-UC-A	
	-C-AAUUAU-AUGAGG-UA-A	
Gmax	UC-AAGGUAAA-G-AGCUU	A
Rcommunis		
Spurpurea	UC-AA <mark>A</mark> -GGUAAA <mark>A</mark> G-AA-U <mark>A</mark> -U	-
-		

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Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii	UGAAGA - AAACCGGGU - AUUAUC UC - AA AUCU
Stuberosum cons	UUGA- <mark>UAUGA</mark> U <mark>GGUA-<mark>AGUGU</mark>UC-GA<mark>U</mark>UGU</mark>
Alyrata Mdomestica	ACU
Mtruncatula Slycopersicum	UAUAAUAAGU-AGUAUCA
BrapaFPsc Egrandis	ACUUA
Cgrandiflora Ppersica	ACUCAAACCU-CUUAU
Csinensis Lusitatissimum	UACAUACA
Cclementina Gmax	UUU
Rcommunis	AACA
Spurpurea Bstricta Csativus	AACCU-CU ACUCAA-CCU- <mark>U</mark> UU <mark>U</mark> U CAU-C <mark>A</mark> UCA
Mesculenta	<mark>U</mark> GUUUAUUCUUUUUCAUA <mark>AA<mark>UUAA</mark>-UU</mark>

Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	GCA
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Ptrichocarpa Pvulgaris	GUUUCUG - GUGGU - G - CUGCUA A - UCC GAAU - CA - C - A - GU - U UC GAGUCAA - GG - U - U - AU - GG AU
Graimondii Stuberosum	CAU- <mark>AC</mark> A-U-AUUUAU AAGUCAA-GGU- <mark>C</mark> -AUG <mark>G</mark> AU
cons	
Alyrata Mdomestica Mtruncatula	<mark>C</mark> <mark>UCA</mark> U <mark>U</mark>

cons

Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Rcommunis Spurpurea Bstricta Csativus Mesculenta	UUUUU UUU - AAU A U C C UUU C - G UUU C UU C
Mesculenta Mguttatus Esalsugineum Cpapaya	UUCGAU AU- <mark>A</mark> -UAUAUC- CU-CGAAUCUA-

Athaliana Crubella Ptrichocarpa Pvulgaris Graimondii Stuberosum	- GAGC GUUACU U U U U U U U U U U
cons	