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T-COFFEE, dev uciel@20151008 17:27 (dev uciel@20151008 17:27)
Cedric Notredame
CPU TIME:0 sec.
SCORE=614
BAD AVG GOOD
Alvrata
Mdomestica
                   62
Mtruncatula
                   60
                   60
Slycopersicum
BrapaFPsc
                   62
                   59
Egrandis
                   65
Cgrandiflora
                   57
Ppersica
                   61
Csinensis
Lusitatissimum
                   56
Cclementina
                   61
                   58
Gmax
Vvinifera
                   61
Rcommunis
                   61
                   61
Spurpurea
                   65
Bstricta
                   59
Csativus
                   58
Acoerulea
                   64
Mesculenta
                   57
Mguttatus
                   63
Esalsugineum
                   56
Cpapaya
                   64
Athaliana
                   65
Crubella
                   61
Tcacao
                   63
Ptrichocarpa
                   58
Pvulgaris
                   63
Graimondii
                   59
Fvesca
                   61
Stuberosum
                   61
cons
                --A------GAG----UUU
Alyrata
                CUUG--UUCUA-UUC--CUU-----CAC----UAU
Mdomestica
                 -UAU--CUU----U----GG----AGA-GUG-GUCU
Mtruncatula
                -CAA---UU----U----AC-----GAAU----CU
Slycopersicum
                --A----G-A----GGA
BrapaFPsc
                Egrandis
                --A-----AGGU----AC----AAG----UUU
Cgrandiflora
                U-UU--<mark>UU</mark>----UUU--UA<mark>A</mark>-----AAA----UAU
Ppersica
                 -UAU--CUG-----UUU
Csinensis
                UUCU - - CUU - - - - UUGCUAC - - - - - GGAU - - - - AC
Lusitatissimum
Cclementina
                 -UAU--C<mark>UG</mark>-----UUU
```

-----CCAU----AA

-----AGG----UGU

- UGU - - ACAUA - - - - - - - - - - - - - UAU - G - - - AUAUA - UUU - UAU - - - - - UUG - - - - GUU

------GU----AC------G-G-----UUU

---A---UU----CCCUUUUUGAAUUAA-CC

-UUG--CUU----U----UC----UUAAC----UUU

CUUU--AUGAA------UUU

-U-----G----U----AC-----ACAU----AU

-----U----GA----AU-----A----UUU

--A------GA<mark>U</mark>-G-AUAU

-UA----UGAAGGU----AC-----AAG----UUU

-UUU--AUAUA-C----UA----A-A----UCC

Gmax

Vvinifera Rcommunis

Spurpurea

Bstricta

Csativus

Acoerulea

Mesculenta

Mguttatus

Cpapaya

Athaliana

Crubella

Tcacao

Esalsugineum

Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	- U AUAUA - UU AU
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	CUA - G UGUCUA - UAAAUU - A UUUCUU - CU - UUGAAU GU CC - UC - A CUU - U - U
Stuberosum cons	CAUUAA-UC-A
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus	AGAA - GGCUA - AGU - CUA C ACCAAU

Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	G-AUUG-AGUUCGA-AUCCUUUC
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	UU U - AGA - U GAUAU AU UUC UAAA - U AUAA U - AU GU C - AU - U AUAU - AU GU G - AG - U GAUUC AU ACA - A ACAC - AU GU U - AGA - U
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea	-G-U-UAAGUC GUGAGUUU GAG - UUU - GAG -UCUGUGU GUCAUUUU CUUGUUA - GAA

Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	GUAAGUA GUGAGUAU GAG - UUU - GAG UU - UAAAAAUA AAAAUAAU UA
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	UUUGA - GA - GACAAA AGA - U <mark>C</mark> - A - C - <mark>C</mark> - UUU ACA <mark>GU</mark> AU UUGA CU - U - CAA - UAAU - AU -
Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	UUUGA-GA-GACAA
Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus	GAUAA AA AU AG AU - AU
Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	UGUGA - GA - GACAAA AGA - AU - A - C - U - GAG - CCCU - GA - A - C - A - UUUGA - GA - GACAAA AGA - UU - A - C - U - UUUGA - GA - GACAAA ACA - UU - G - C - U U G G G G GU - UUUGA - A - GGCUAA AG GG GU - UUUUA - GA - AGCUAU UGU U - G - G - C -
Graimondii Fvesca Stuberosum cons	UAUU- CUUUC-GA-AAU-UU-ACU- UCAC-UUCC-CU-C-C-U-
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	-AC-AUG-AAGA

	-UU <mark>AAUCCGUUU-GA</mark>
Cclementina	-UUUU-(7A
Gmax	
Vvinifera	-AC-A-G- <mark>U</mark> AG
Rcommunis	-AGGCA-G
Spurpurea	- UC - U U - G
Bstricta	-AC-AUC-AAGA
Csativus	GUUAAUUUUUGUUA
Acoerulea	
	-UUG
Mesculenta	-AU-AUA
Mguttatus	
Esalsugineum	-AC-CAG-ACGAUUUUUUAGC-
Cpapaya	-UU <mark>CUA</mark> CCGUAG-AG
Athaliana	- <mark>AC-A<mark>A</mark>G-AAGAUU<mark>GU</mark>U<mark>AA</mark>ACA</mark>
<u>C</u> rubella	-AC-AUGUAAGA
Tcação	-U <mark>G</mark> -CA- <mark>U</mark> GGAU
Ptrichocarpa	-UC- <mark>U</mark> U-G
Pvulgaris	- <mark>AU</mark> - <mark>CUA</mark> - <mark>UA GA -</mark>
Graimondii	-UC- <mark>G</mark> U-G-GAU
Fvesca	<mark>GAU</mark> <mark>CGG</mark> <mark>UCU</mark> -CA
Stuberosum	-U <mark>C</mark> GAUUGGUCA
cons	
COIIS	
Alyrata	UGGAAG-
Mdomestica	UGUGGA <mark>G</mark> G-
Mtruncatula	AUUA <mark>C</mark> AUA U <mark>AU</mark> G - C <mark>C</mark> U A UGGU <mark>G</mark>
Slycopersicum	AAUCG-UGUCUUU- <mark>UU</mark> UGGUU
BrápaFPsc	AAAACGGAAG-
Egrandis	A- <mark>GCA</mark> -UG <mark>GUUU-GA</mark> UACAUGGAU
Cgrandiflora	IIGGGAG-
Ppersica	UGCUUU-GAUGAU
Csinensis	U <mark>G</mark> C <mark>U</mark> UU-GAUG <mark>AU</mark> AAU
Lusitatissimum	AAUCG- <mark>GAA</mark> AUCU <mark>G</mark> UAGA <mark>A</mark> <mark>UU</mark>
Cclementina	AAII.
Gmax	AAU
Vvinifera	UG
Rcommunis	
Spurpurea	UGCC
Bstricta	UGGAAC-
Csativus	AA <mark>G</mark> GGAGAGAUUUUAGGG <mark>UU</mark> UU - G <mark>U</mark> U A
	HACH HILL C CALLC A CCCAAC
Acoerulea Massulanta	<mark>UACU</mark> UUUG-C <mark>AUG</mark> A <mark>G</mark> GGAAG- UG
Mesculenta	
Mguttatus	
	UACAUAC
Esalsugineum	AAAACGGAAU-
Cpapaya	AAAA <mark>CGG</mark> AA <mark>U</mark> - AGA
Cpapaya Athaliana	AAAA
Cpapaya Athaliana Crubella	AAAA CGGAA <mark>U</mark> - A <mark>GA</mark>
Cpapaya Athaliana Crubella Tcacao	AAAA CGGAA <mark>U</mark> - AGA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	AAAA CGGAAU - AGA UGGAAG UGGAAG UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	AAAA CGGAAU - AGA UGGAAG UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	AAAA CGGAAU - AGA UGGAAG UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	AAAA CGGAAU - AGA UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	AAAA CGGAAU - AGA UGGAAG UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AAAA CGGAAU - AGA UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AAAA CGGAAU - AGA UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AAAA CGGAAU - AGA UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AAAA CGGAAU - AGA UGGAAG UGGGAG
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AAAA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum Cons	AAAA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica	AAAA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula	AAAA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum	AAAA
Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula	AAAA

Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AC UAAUU AC - GCC U UU ACAG AC UAAUU UAC - AAA C CC ACGG AUA AAA - AG AU UG GCAG GAU - GAA C AA ACAG
cons	GAC-ACAUGUACAG

Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc **Egrandis** Cgrandiflora **Ppersica** Csinensis Lusitatissimum Cclementina Gmax **Vvinifera** Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao **Ptrichocarpa Pvulgaris** Graimondii **Fvesca**

Stuberosum

UCG<mark>C</mark>UGUUUGC<mark>U</mark>GCUGUGGCAUCAUCAAGAUU-CAC UCGUUGUUUGCGGGUGUGGCAUCAUCAAGAUU-CAC UCGUUGUUUGCAGAUGUAGCAUCAUCAAGAUU-CAU UCGUUAUUUGCAGCUGCAGCAUCAUCAAGAUU-CAC UCGUUGUUUGC<mark>U</mark>GCUGUGGCAUCAUCAAGAUU-CAC UCGUCGGUUGCAGGCGUAGCAUCAUCAAGAUU-CAC UCGUUGUUUGCUGCUGUGGCAUCAUCAAGAUU-CAC UCGUUGUUUGCGGGCGUAGCAUCAUCAAGAUU-CAC UCAUCGUUUGCAGAUGCAGCAUCAUCAAGAUU-CAC UCGUUGUUUGCUGGCGUGGCAUCAUCAAGAUU-CAC UCAUCGUUUGCAGAUGCAGCAUCAUCAAGAUU-CAC UCGUUAUUUGCGGAUGUAGCAUCAUCAAGAUU-CAC UGGUUGUUUGCGCAUGUAGCAUCAUCAAGAUU-CAC UCGUUGUUUGCGGGUGUAGCAUCAUCAAGAUU-CAC UCGUUGUUUGCGGGUGGAGCAUCAUCAAGAUU-CAC UCGUUGUUUGC<mark>U</mark>GCUGUGGCAUCAUCAAGAUU-CAC U<mark>U</mark>GUUG<mark>G</mark>UUGC<mark>U</mark>GGUGUAGCAU<mark>U</mark>AUCAAGAUU-CAC UCGUCUCUUGCUGGUGCAGCAUCAUUAAGAUU-CAC UCGUUGUUUGC<mark>G</mark>GGUGUAGCA<mark>C</mark>CAUCAAGAUU-CAC UCGUUGUUU<mark>U</mark>CU<mark>GGUGUAGCAUCAUCAAGA<mark>A</mark>UACAC</mark> UCAUUGUUUGC<mark>U</mark>GCUGU<mark>G</mark>GCAUCAUCAAGAUU-CAC UC<mark>A</mark>UUGUUUGC<mark>U</mark>G<mark>G</mark>UG<mark>C</mark>AGCAUCAUC<mark>G</mark>AGAUU-CAC UCGUUGUU<mark>G</mark>GCUGCUGUGGCAUCAUCAAGAUU-CAC UCGUUGUUUGC<mark>U</mark>GCUGU<mark>G</mark>GCAUCAUCAAGAUU - CAC UCGUUGUUUGCGGGUGUAGCAUCAUCAAGAUU-CAC UCGUUGUUUGC<mark>G</mark>GGUG<mark>G</mark>AGCAUCAUCAAGAUU-CAC UCGUU<mark>A</mark>UUUGC<mark>GGA</mark>UGUAGCAUCAUCAAGAUU-CAC UCGUUGUUUGC<mark>A</mark>GGUGUAGCAUC<mark>U</mark>UCAAGAUU-CAC U<mark>U</mark>GUUGUUUGC<mark>G</mark>GCUGUAGCAUCAU<mark>G</mark>AAGAUU-CAC UUGUUAUUUGCAGCUGCAACAUCAUCAAGAUU-CAC

cons

Alyrata	AUCUGU <mark>UG</mark> AUGG
Mdómestica	AGCAUGCAA-UUA
Mtruncatula	AUGU <mark>G</mark> AAUGAUGC
Slycopersicum	AUA <mark>A</mark> AA <mark>UA</mark> G <mark>A</mark> A
BrapaFPsc	AUCGCCAGAUGG
Egrandis	AAGUGAAAAUGG
Cğrandiflora	AUCUCUGUU-UGAUGA
Ppersica	GCACAUGCAA-UUA
Csinensis	AUGUA <mark>U</mark> AU <mark>AU</mark> AUA
Lusitatissimum	AUGUAAAGCUAG
Cclementina	AUGUAUAUAUAU
Gmax	AUGCAAGCGCAGGUGG
Vvinifera	AUGCAAAUGCA
Rcommunis	AUGCAAAUGCA
Spurpurea	AUGCAAAUGCA
Bstricta	AUCUCUUGAUGG
Csativus	AUUCAAAUGU
Acoerulea	AAACCCUAAGAGCCUUAUGA
Mesculenta	AUGCAAAUGCA
Mguttatus	AUGCAUCAA-AAAAGC
Esalsugineum	AUCUGUUUAUGG
Cpapaya	AUAUAUAUUGCUAAUAUAAG
Athaliana	AUCUGUUGAUGG
Crubella	AUCUCUGUU-UGAUGA
Tcacao	AUGCAAAUGCA
Ptrichocarpa	AUGCAAAUGCA
Pvulgaris	AUGCAAACGCAGG
Graimondii	AUGCAAAUGCA
Fvesca	ACAUGC AAUUGAU GC
Stuberosum	AUAAAAUAGAAAU
Stuber osum	AUAAAdUAAdAd-
cons	
Alvrata	ACGGU-GGUG-AU
Alyrata Mdomestica	ACGGU-GGUG-AU
Mdomestica	A
Mdomestica Mtruncatula	A <mark>GA</mark> GU-GGAA- <mark>C</mark> -UG- <mark>C</mark> U
Mdomestica Mtruncatula Slycopersicum	A <mark>GA</mark> GU-GGAA- <mark>C</mark> -UG- <mark>C</mark> U AAUAU-GGAG-U-AGGAA
Mdomestica Mtruncatula Slycopersicum BrapaFPsc	A <mark>GA</mark> GU - GGAA - <mark>C</mark> - UG - <mark>C</mark> U A AUAU - GGA <mark>G</mark> - U - AG <mark>G</mark> A <mark>A</mark> A CGGU - GG UG - A U
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	A <mark>GA</mark> GU - GGAA - <mark>C</mark> - UG - <mark>C</mark> U A AUAU - GGAG - U - AGGA A A CGGU - GG UG - A U A CGGU - GG UG - A U
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	A <mark>GA</mark> GU - GGAA - <mark>C</mark> - UG - <mark>C</mark> U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A AGGA A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A CGGU - GG UG - A U
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A A A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A CGGU - GG UG - A U CGGU - GG UG - A U
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	A GAGU - GGAA - C - UG - C U AUAU - GGAG - U - AGGA A AUAU - GGAG - U - AGGA A

Alvanto	II 0 0
Alyrata Mdomestica	C- <mark>G</mark>
Mtruncatula	<mark>A</mark>
	<mark>A</mark> AAAAAUC-A
Slycopersicum BrapaFPsc	UC-A
Egrandis	U
Cgrandiflora	UUC-A
Ppersica	UC-Ü
Csinensis	<mark>AUAGAU</mark> <mark>A</mark> -U
Lusitatissimum	C-U
Cclementina	AUAGAUA-U
Gmax	<mark>AUAGAUA</mark> -U <mark>G-C</mark> A UC-U
Vvinifera	II
Rcommunis	UUAUAUGUAUGUGCUAAUGAAUC-A
Spurpurea	UA-GAGUUAAAUC-U
Bstricta	UC-A
Csativus	
Acoerulea	<mark></mark> <mark>GAUC-A</mark>
Mesculenta	<mark>cucu</mark> cucc c u c- u
Mguttatus	CUAGAU
Esalsugineum	UU-A
Cpapaya	AUCAAUCAÛ
Athaliana	UC-A
Crubella	C-Â
Tcacao	UAAUACAAACUC UC UUCUUU - UUUUCU
Ptrichocarpa	UAAGAGUUAAAUC-U
Pvulgaris	G-CA
Graimondii	UUAUAGUAACGUACUC-UCUUCA
Fvesca	UCCC
Stuberosum	<mark>A</mark> AAAAAU <mark>A</mark> -A
cons	
cons	
cons	
Alyrata	<u>C</u>
Alyrata Mdomestica	C
Alyrata Mdomestica Mtruncatula	
Alyrata Mdomestica Mtruncatula Slycopersicum	A <mark>G</mark> UUG-CUUCUAAAU
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc	A <mark>G</mark> <mark>UUG-CUUCUAAAU</mark> C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	A <mark>G</mark> <mark>UUG-CUUCUAAAU</mark> CA
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	AG
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	AG
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	AG
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	AG
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax	AG
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	A G UUG - CUUCUAAAU C UCU UGG - UGGA - AAGAU A
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana	A G UUG - CUUCUAAAU C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	A G UUG - CUUCUAAAU C UCU UGG - UGGA - AAGAU A

Dtrichocorno	ueu uue uuue
Ptrichocarpa Pvulgaris	<mark>U</mark> <mark>UC</mark> UUUG- <mark>U</mark> UUC
Graimondii	A <mark>CCCCC</mark> CGCUCCCCUU <mark>U</mark> -CUUC
Fvesca	ACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Stuberosum	A <mark>G</mark> UUG-CUUCUAAAU
Scuber osum	A0-0
cons	
cons	
Alyrata ု	<mark>ucu</mark> <mark>c</mark>
Mdomestica	
Mtruncatula	<mark>UAU</mark> <mark>UUC</mark>
Slycopersicum	<u>U</u>
BrapaFPsc	CCU
Egrandis	<mark>ucg</mark> cccu <mark>u</mark> u- ucu
Cgrandiflora	UCU C
Ppersica Csinensis	GUUUAUCUUU
Lusitatissimum	GUUUAUCUUU
Cclementina	GUUUAUCUUUUUU-
Gmax	AUCUAAGUG-CUGUGC-C-AGCCAAG
Vvinifera	CUG
Rcommunis	<mark>UG</mark> <mark>AUCAUGA</mark> G
Spurpurea	UGUUCAUCUG
Bstricta	CC
Csativus	UAU
Acoerulea	<mark>UCU</mark> <mark>U</mark>
Mesculenta	
Mguttatus	<mark>ucucucuc</mark> u <mark>cucucu</mark> -cuc-ucu <mark>c</mark>
Esalsugineum	UCUCU <mark>CUCUC</mark> UCUCU-CUC-UCU <mark>C</mark>
Cpapaya	GAUUUGCUAGUA
Athaliana	CC
<u>C</u> rubella	<mark>ucu</mark> cc
Tcacao	UCCCUUCUCCUUU-AUG
Ptrichocarpa	UGUUCAUCUG
Pvulgaris	AUCUAAGUG-CUGUGC-C-AACCAUG
Graimondii	U <mark>CU</mark> <mark>UCCUAA</mark> UUUCAU <mark>U</mark> UCUCUGUCUG
Fvesca	
Stuberosum	UAU
cons	
cons	UAU
cons Alyrata	CCC-AAAGUU-CUCU-AUG-AAA
cons Alyrata Mdomestica	CCC-AAAGUU-CUCU-AUG-AAA
cons Alyrata Mdomestica Mtruncatula	CCC-AAAGUU-CUCU-AUG-AAAAAAGUU-GU-UUG-AAAAU-UGAU-CU
cons Alyrata Mdomestica Mtruncatula Slycopersicum	CCC-AAAGUU-CUCU-AUG-AAAAAAGUU-GU-UUG-AAAAU-UGAU-CUUUU-GAACC-AU-AUUAUUAUUU-UU-U-U-U-CAAAA
cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc	CCC-AAAGUU-CUCU-AUG-AAAAAAGUU-GU-UUG-AAAA-U-UGAU-CU
cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	CCC-AAAGUU-CUCU-AUG-AAAAU-UGAU-CU-UUG-AAAC-AU-AUUAUUAUUU-UU-U-U-CAAAA CCC-AAAGUU-CUCUGAUG-AAA GCCGAAAGUU-CAU-CU-G-AGA
cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	CCC-AAAGUU-CUCU-AUG-AAAAU-UGAU-CU-UUU-G-AAAAU-UGAU-CU-U-U-CAAAA -CC-AU-AUUAUUAUUU-UU-U-U-U-CAAAA CCC-AAAGUU-CUCUGAU-G-AAA GCCGAAAGUU-CUCUGAU-G-AGA C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	CCC-AAAGUU-CUCU-AUG-AAAAU-UGAU-CU-U-U-G-AAAAU-UGAU-CU-U-U-GAA -CC-AU-AUUAUUAUUU-UU-U-U-CAAAA CCC-AAAGUU-CUCUGAU-G-AGA GCCGAAAGUU-CU-U-U-C-AAA CCC-AAAGUU-CU-U-CAAA
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - C U - UU - G - AAA A - U - UGA U - C - U - UU - U - GAA - CC - A U - AUUAUUAUUU - U - U - U - UU - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU U - C AU - CU - G - AGA - CC - A AAGU U - C UCU - GU - G - AAA GCU - U - U - AAUU U - C UU - C AAA GCU - U - U - AUU G - C C UU - C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - C U - UU - G - AAA A - U - UGA U - C - U - UU - U - U - U - U -
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - C U - U - U - G - AAA A - U - UGA U - C - U - UU - U - U - GAA - CC - A AAGU U - C - U - UU - U - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU C C AU - CU - G - AGA C U - C - UCU - GU - G - AAA - CC - A AAGU U - C UCU - GU - G - AAA - CC - A AAGU UUC U - UU - C AAA GCU - U - U - AUU G - C - C UU - C GCC - A - GUAGU AG - G - A - C AU - G - GAC GCU - U - U - AUU G - C - C UU - C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - C U - U - U - G - AAA A - U - UGA U - C - U - UU - U - U - U - GAA - CC - A AAGU U - C - U - U - U - U - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU C - C AU - CU - G - AGA C U - C UCU - GU - G
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - G U - UU - G - AAA A - U - UGA U - C - U - UU - U - G - AAA - CC - A AAGU U - C - U - UU - U - U - CAAAA CCC - A AAGU U - C - UCU GAU - G - AAA GCCGA AAGU U - C - UCU - GU - G - AAA - CC - A AAGU UUC U - UU - C - AAA GCU - U - U - AUU G - C - C UU - C GCC - A - GUAGU - AG - G - A - C AU - G - GAC GCU - U - U - AUU G - C - C UU - C GCC - A - GUAGU AG - G - A - C AU - G - GAC GCU - U - U - AUU G - C - C UU - C C - C U - U
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - C U - U - U - G - AAA A - U - UGA U - C - U - UU - U - U - U - GAA - CC - A AAGU U - C - U - U - U - U - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU C - C AU - CU - G - AGA C U - C UCU - GU - G
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	CCC - A AAGU U - C UCU - AU G - AAA A AAGU U - G U - UU - G - AAA A - A - U - UGA U - C - UCU GAU - G - AAA - CC - A U - AUUAUUAUUU - U - U - U - UU - CAAAA CCC - A AAGU U - C - UCU GAU - G - AAA GCCGA AAGU U - C - UCU GU - G - GAA CC - A AAGU U - C - UCU - GU - G - AAA - CC - A AAGU UUC U - UU - C - AAA GCU - U - U - AUU G - C - C UU - C GCC - A - GUAGU AG - G - A - C AU - G - GAC GCU - U - U - AUU G - C - C UU - C C - CA - U - AGG - U C - U - U - U - U - G - GAA - CC - A AACU U - UGUUUU - UU - G - AAA - CC - A GAGU U - UGUUUU - UU -
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea	CCC - A AAGU U - C UCU - AU - G - AAA A - A - U - UGA U - C - UCUGAU - G - AAA CCC - A AAGU U - C - UCUGAU - G - AAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU U - C - UCU - GU - G - AAA GCCGA AAGU U - C - UCU - GU - G - AAA GCU - U - U - AUU U - C UU - C AAG GCU - U - U - AUU G - C - C UU - C GCC - A - GUAGU - AG - G - A - C AU - G - GAC GCU - U - U - AUU G - C - C UU - C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea	CCC - A AAGU U - C UCU - AU - G - AAA A A - AGU U - C - U - U - U - U - G - AAA A - A - U - UGA U - C - U - U - U - U - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU U - C U - C - UCU - GU - G
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta	CCC - A AAGU U - C UCU - AU - G - AAA A AAGU U - C U - U - U - G - AAA A - A - U - UGA U - C - U - U - U - U - CAAAA CCC - A AAGU U - C - U - U - U - CAAAA CCC - A AAGU U - C AU - CU - G - AGA CCC - A AAGU U - C UCU - GU - G - AAA GCU - U - U - AUU G - C - C UU - C AAG GCU - U - U - AUU G - C - C UU - C G - GAC GCU - U - U - AUU G - C - C UU - C
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea	CCC - A AAGU U - C UCU - AU - G - AAA A A - AGU U - C - U - U - U - U - G - AAA A - A - U - UGA U - C - U - U - U - U - CAAAA CCC - A AAGU U - C - UCUGAU - G - AAA GCCGA AAGU U - C U - C - UCU - GU - G

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Esalsugineum	CCC-AAAGUU-CUCUG-UG-AAG
Cpapaya	GCU-AUCC-AGUAA-G-CUAUG-AAA
Athaliana	CAC-AAAGUU-CUCU-AUG-AAA
Crubella	CU-CUCU-GU-G-AAA
	-CC-AAAGUU-GU-UUG-G-AAA
Tcacao	-CC-AAAGUU-CU-UUG-GAA
Ptrichocarpa	
Pvulgaris	-C-CAU-AG <mark>G</mark> <mark>U</mark> CU-U-UUG- <mark>G</mark> AA
Graimondii	CCC-AAAGUU-CC-UUG-AAA
Fvesca	-CC-A <mark>u</mark> aguu- <mark>g</mark> u-uugaaa
Stuberosum	-CC-AU-A <mark>U</mark> UAUUA <mark>U</mark> UU- <mark>U</mark> UUUG-AAA
cons	
COIIS	
Alyrata	AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Mdomestica	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Mtruncatula	AUAAGAAUCUUGAUGAUGCUGCAUCAGCCA
Slycopersicum	AUGAGAAUCUUGAUGAUGCUGCAUCGACAA
BrapaFPsc	AUGAGAAUCUUGAUGAUGCUGCAUCGGAAA
	<mark>U</mark> UGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Egrandis Carondifloro	
Cgrandiflora	AUGAGAAUCUUGAUGAUGCUGCAUCGGCCA
Ppersica	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Csinensis	AUGAGAAUCUUGAUGAUGCUGCAUC <mark>A</mark> GC <mark>G</mark> A
Lusitatissimum	- <mark>U</mark> GAUGAGAAUCUUGAUGAUGCUGCAUC <mark>G</mark> GC <mark>AG</mark>
Cclementina	<mark>A</mark> UGAGAAUCUUGAUGAUGCUGCAUC <mark>A</mark> GC <mark>G</mark> A
Gmax	- <u>-</u> - <mark>C</mark> UGAGAAUCUUGAUGAUGCUGCAUC <mark>A</mark> GC <mark>C</mark> A
Vvinifera	G <mark>G</mark> -AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Rcommunis	- <mark> G</mark> UGAGAAUCUUGAUGAUGCUGCAUC <mark>A</mark> GCAA
Spurpurea	<mark>G</mark> UGAGAAUCUUGAUGAUGCUGCAUC <mark>G</mark> GCAA
Bstricta	-A-AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Csativus	CUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Acoerulea	AUGGGAAUCUUGAUGAUGCUGCAUCGGCAA
Mesculenta	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Mguttatus	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Esalsugineum	AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
•	AUGAGAAUCUUGAUGAUGCUGCAUCGGC <mark>C</mark> A
Cpapaya Athaliana	AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Crubella Tanana	AUGAGAAUCUUGAUGAUGCUGCAUCGGCCA
Tcacao	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Ptrichocarpa	GUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Pvulgaris .	<mark>G</mark> UGAGAAUCUUGAUGAUGCUGCAUC <mark>A</mark> GCCA
Graimondii	<mark>G</mark> UGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Fvesca	<mark>G</mark> UACUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
Stuberosum	AUGAGAAUCUUGAUGAUGCUGCAUCGGCAA
cons	* * * * * * * * * * * * * * * * * *
Alyrata	UCAACG <mark>G</mark> CUAUUCUU <mark>U</mark> <mark>U</mark> <mark>UU</mark> -C-
Mdómestica	UAAAC <mark>C</mark> ACUAUACAA <mark>A</mark> AGA
Mtruncatula	UA <mark>U</mark> AGACUUUA <mark>U</mark> AAG-AA-AAA
Slycopersicum	AUUAUGACUUUUUCCCC
BrapaFPsc	UCAACGGCUAUUCUUUCC-C-
Egrandis	UAAACGACUCUACACGACAAU
Cgrandiflora	UCAAGGACUAUUAUA-U-UUUACU
Ppersica P	UAAACCACUAUACAAACGA
Csinensis	UAAAUGACUAAUCAUAU-AUA
Lusitatissimum	UCGACGACUGCAUACGAAA-AG-
Cclementina Cmax	UAAAUGACUA <mark>A</mark> UCAUAU-A <mark>U</mark> A
Gmax	UAAACGACUUCACUUUAA-AAA
<u>V</u> vinifera	UAAACUACUAUACAAAG
Rcommunis	UAAACGACUAUA <mark>U</mark> A <mark>C</mark> -UUA <mark>A</mark> -AA
Spurpurea	UAAACGA <mark>G</mark> UAUACAA <mark>A</mark> <mark>U</mark> CA

Bstricta	UCAAGGACUAUUCUU <mark>U</mark> UC <mark>CCU</mark>
Csativus	UCAAUGACUAUAUAUAUUGC-AU
Acoerulea	UAAAUGACUAUUCUUCC-UU-UUG
Mesculenta	UAAACGACUUUACA <mark>G</mark> A <mark>A-AGG</mark>
Mguttatus	UAAACGACUA <mark>G</mark> CA <mark>G</mark> C <mark>A</mark> -A <mark>AG</mark> AA-
Esalsugineum	U <mark>CAACGGCUAUUCUUU</mark> <mark>C</mark> C- <mark>C</mark> -
Срарауа	UAAA <mark>U</mark> GACUAUAC <mark>U</mark> A <mark>C</mark> AAA
Athaliana	UCAACGACUAUUCUU <mark>U</mark> <mark>C</mark> C-C-
Crubella	UCAAGGACUAUUAUA-U-UUUACU
Tcacao	UAAACGACUAUACAAAAGA
Ptrichocarpa	UAAACGACUAUACAACACA
Pvulgaris	UAAAGACUACUUUGA-AAA
Graimondii	UAAAUUAACGACUAU - ACAA A AGA
Fvesca	UAAACGACUAUACA <mark>G</mark> AAGA
Stuberosum	<mark>AUUA</mark> <mark>UGACUUU</mark> <mark>UUUA</mark> <mark>U</mark> C- <mark>C</mark>
cons	* *
_	
Alyrata	UC-UCA-U
Mdomestica	GAGGAGAACU-C-CACA-G
Mtruncatula	AAGAA
Slycopersicum	
BrapaFPsc	UC-UCÜC-CUA-UÄUAUA-UAUGUÜ-Ü
	C UC CACCUC CC UCUUCU U
Egrandis	-C-UCGA <mark>GG</mark> UC-CCU <mark>C</mark> UUCU-U
Cgrandiflora	UC-UCCCUCUC-UUUCUCCA-UAUGU
Ppersica	GAAGACCU-CUCUCU-C
Csinensis	<mark>uc-ua</mark> <mark>-</mark> <mark>u</mark> <mark>uu</mark> Au <mark>gu</mark> a-u
Lusitatissimum	<mark>UC-<mark>AG</mark><mark>A</mark>GCUU<mark>UG</mark>AUG<mark>G</mark>A-U</mark>
Cclementina	<mark>UC-UA</mark> <mark>-</mark> <mark>U</mark> UUAUG <mark>U</mark> A-U
Gmax	G <mark>UUA</mark> GAUAAGG
Vvinifera	GGCU <mark>CUCUCG</mark>
Rcommunis	GAGAGACA-AUAUUU-U
Spurpurea	GAGGGACCUGGAU-G
Bstricta	-C-UCUC-UUUCUCCCCUAUGU
Csativus	-C-UCUC-UUUCUCCCCUAUGU
Acoerulea	AUCCAUGA
	GA-AGA
Macculanta	
Mesculenta	
Mguttatus	AC-UGUGUAAUUUGUUCA-GAGGU
Mguttatus Esalsugineum	AC-U <mark>G</mark> U <mark>G</mark> UAAUUU <mark>GUU</mark> CA-GAGGU CCAUCCCCCUC-UCUCUA-UAUGCU
Mguttatus Esalsugineum Cpapaya	AC-U <mark>G</mark> <mark>UG</mark> UAAUUU <mark>GUU</mark> CA- <mark>G</mark> AGGU CCAUC <mark>CCC</mark> CUC-UCUCUA-UAUGCU UAACGCA- <mark>C</mark>
Mguttatus Esalsugineum Cpapaya Athaliana	AC-UGUGUAAUUUGUUCA-GAGGU CCAUCCCCCUC-UCUCUA-UAUGCU UAUACGCA-C UC-UCUCUC
Mguttatus Esalsugineum Cpapaya Athaliana Crubella	AC-UGUGUAAUUUGUUCA-GAGGU CCAUC
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao	AC-UGUGUAAUUUGUUCA-GAGGU CCAUC
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	AC-UGUGUAAUUUGUUCA-GAGGU CCAUC
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	AC-UGUGUAAUUUGUUCA-GAGGU CCAUC
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum Alyrata	AC - UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum Cons Alyrata Mdomestica	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula	AC-UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum	AC - UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc	AC - UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	AC - UG
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	AC - UG UG UAAUUUGUUCA - GAGGU CCCCUC - UC - UCUA - UAUGCU UA
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	AC - UG UG UAAUUUGUUCA - GAGGU CCCCUC - UC - UCUA - UAUGCU UA
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	AC - UG UG UAAUUUGUUCA - GAGGU CCCCUC - UC - UCUA - UAUGCU UA
Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	AC - UG UG UAAUUUGUUCA - GAGGU CCCCUC - UC - UCUA - UAUGCU UA

Cclementina	-A-ACAAA
Gmax	AU
••	HO A C H HOUNGACOA
<u>V</u> vinifeṛa	U <mark>C</mark> -ACUU <mark>GU</mark> UGAGCA
Rcommunis	- <mark>GCACUCC</mark> <mark>A</mark> U <mark>CAACAACA</mark> <mark>A</mark>
Spurpurea	U <mark>U-UUUUC</mark> UU <mark>A</mark> CA <mark>G</mark> AAUA
Bstricta	GG-AU
Csativus	UAGAUUCUGC-CA
Acoerulea	G-AUGACUAUGCACA
	-ACACACAA-UCUA
Mesculenta	-ACACACA A U CU A
Mguttatus	<mark>uu</mark> -Au
Esalsugineum	AU
Cpapaya	-ACACAAGCC-AC
Athaliana	AGAU <mark>UAUUUGG</mark> -AU
Crubella	CU-AU
Tcacao	-UCUCUCAGUUUCAAAGUA
Ptrichocarpa	<mark>AA</mark> <mark>A</mark> <mark>AAAAAAA</mark>
Pvulgaris	AU
Graimondii	CUCUCUC <mark>G</mark> GUUUCAAAGUA
Fvesca	- <mark>C</mark> - AG AC A
Stuberosum	- AUAG IIG AA II IIA - AA
Scaper osam	TONG TONG THE TANK
cons	
Alyrata	UCUAUCCAGAU
Mdomestica	-UCAA-UGAUUUGGUAUG-
Mtruncatula	AACAUUCA-GAUAC-UG
Slycopersicum	AGAAUUCAG-GAU
BrapaFPsc	UCGAACCAGAU
Egrandis	U <mark>GCC</mark> UUCA
Cgrandiflora	UCCAUUCAA-GAU
Ppersica	CUCAGUC
Csinensis	GGAAGCAACAU
Lusitatissimum	AUCCA-GCAGGGAA-GU
Cclementina	GGAAGCAACAU
Gmax	UCUA <mark>A</mark> CC <mark>U</mark> <mark>CAACA</mark> AGUGGGCAAAA
Vvinifera	A
	A
Rcommunis	AAGGUCAACUUU
Rcommunis Spurpurea	<mark>aa</mark> G <mark>gucaa</mark> cuuu
Spurpurea	<mark>A</mark> AG <mark>GU<mark>CAA</mark>CU<mark>U</mark>U CAGUUUGUAAGU</mark>
Spurpurea Bstricta	<mark>A</mark> AGGU <mark>CAA</mark> CU <mark>U</mark> U CAGUUUGUAAGU UCCAUCCAGAU
Spurpurea Bstricta Csativus	<mark>A</mark> AGGU <mark>CAA</mark> CUUU CA
Spurpurea Bstricta Csativus Acoerulea	<mark>A</mark> AGGU <mark>CAA</mark> CUUU CA
Spurpurea Bstricta Csativus	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta	<mark>A</mark> AGGU <mark>CAA</mark> CUUU CA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum Cons	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula Slycopersicum	AA
Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca Stuberosum cons Alyrata Mdomestica Mtruncatula	AA

Egrandis	
Cğrandiflora	CUUCU-U
Ppersica	<mark>A</mark> <mark>GUCU-UU-C</mark> A
Csinensis	CAUCU-U
Lusitatissimum	<mark>Auucca</mark> aa-uua-ug <mark>a</mark> -uu
Cclementina	CAUCU-U
Gmax	AAA <mark>A</mark> A
Vvinifera	<mark>UU</mark> <mark>C</mark> <mark>U</mark> -U <mark>UU-UG</mark>
Rcommunis	<mark>U</mark> AUUCUU <mark>U</mark> <mark>U</mark> -U <mark>C</mark> UUU <mark>GU</mark> UU <u>-</u>
Spurpurea	GAC <mark>A</mark> -CUU-UGCACC-U <mark>G</mark>
Bstricta	CUUCU-U
Csativus	CAAAU-UAACA
Acoerulea	CUUC <mark>C</mark> -C <mark>A</mark> A-A
Mesculenta	<mark>UU</mark> <mark>CU-U</mark> UU-U <mark>U</mark> UUUC-U-
Mguttatus	GG-CAAAA
Esalsugineum	CUUCU-U
Cpapaya	CUU <mark>A</mark> <mark>U</mark> A
Athaliana	CUUCU-U
<u>C</u> rubella	CUUCU-U
Tcacao	<mark>c</mark> uu-u <mark>gcacacuu</mark>
Ptrichocarpa	GACA-C
Pvulgaris	AA <mark>UAUA</mark> <mark>U</mark> AUAA
Graimondii	UA-AAGUUUCUA
Fvesca	<mark>uuuccu</mark> -u-u
Stuberosum	<mark>GA</mark> UCU-UGACUUUACUAUU-U <mark>AU</mark> UU <mark>U</mark>
cons	
Alvesta	CCH AC CHILL CHILLICHA CHILL C A
Alyrata	GGU-AGGUUU-GUUUCUACUUG-A
Mdomestica	-CUGUUUCAGG
Mdomestica Mtruncatula	- <mark>C</mark> <mark>UGUU</mark> UCAGG
Mdomestica Mtruncatula Slycopersicum	-
Mdomestica Mtruncatula Slycopersicum BrapaFPsc	-CUGUUUCAGGGGAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis	- C UGUUUCAG G GAU ACG AG - AUCAG - GUG - GGU - AA GUA UG - CAA - UUUG GGU - AG GUUU - GUUUCUG CUU U - AGGU - GG GUUUAGAUUAAA U - UU - G - U
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora	- C UGUUUCAG G G GAU ACG AG AUCAG - GUG - GGU - AA GUA UG - CAA - UUUG GGU - AG GUUU - GUUUCUG CUU U - A GGU - GG GUUU - GAUUAAA U - UU - G - U GGU - UA GUUU UUCCUC AUU UUA
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica	- C UGUUUCAG G G GU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis	- C UGUUUCAG G GAU ACG AG - AUCAG - GUG - GGU - AA GUA UG - CAA - UUUG GGU - AG GUUU - GUUUCUG CUU U - A GGU - GG GUUU UUCCUC AUU UUA - C AGUCUCACC - AGUC GC C
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum	-CUGUUUCAG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina	-CUGUUUCAG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax	-CUGUUUCAGGGAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera	-CUGUUUCAG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis	-CUGUUUCAGGGAUCAG-GUG-GAUACG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea	-CUGUUUCAG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta	-CUGUUUCAG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus	-CUGUUUCAGGGGUG-GGU-AAGUA
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea	-CUGUUUCAGGGGUG-GAUACG
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa	GAU
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris	GAU ACG G G GU - AA GUA UG - CAA - UUUG GGU - AA GUUU - GUUUCUG CUU U - A GGU - GG GUUU - UUCCUC AUU UUA - C AGUC GC AUU UUA AGUC GC
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	GAU ACG G G GU - AA GUA UG - CAA - UUUG GGU - AA GUUU - GUUUCUG CUU U - A GGU - GG GUUU - UUCCUC AUU UUA - C AGUC UCACC - AGUC GC
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	GAU ACG G
Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii	GAU ACG G G GU - AA GUA UG - CAA - UUUG GGU - AG GUUU - GUUUCUG CUU U - A GGU - GG GUUU - UUCCUC AUU UUA - C AGUC UCACC - AGUC GC

cons

Alyrata	<u>UUU U UUUUUUCAU</u> U - <u>UUU</u> <u></u> - U
Mdomestica	
Mtruncatula	CUGCUU-UU-U
Slycopersicum	GACUUUGACU-UU-A
BrapaFPsc	AGU UCC U UUCU
Egrandis	UUUCUUGGA-AGU-UU-A
Cgrandiflora	UAACUA
Ppersica	A
Csinensis	CUUUACUU-UU-C
Lusitatissimum	<mark>UA</mark> UU <mark>G</mark> CUU-AU
Cclementina	CUUUACUU-UU-C
Gmax	CUGU
Vvinifera	UCAGGU-GGGU-UU-A
	GGGGU-AUGUACU-U
Rcommunis	GUU
Spurpurea	AAUCAAAGGU-GGUU-CU-U
Bstricta	AAUCCCUU-UUUU
Csativus	UUAAUUCUUCUAGU-UUUA
Acoerulea	GUACUUUUAUAGUU-UU-G
Mesculenta	GAU <mark>UA</mark> U
Mguttatus	UAU <mark>AU</mark> A UAU AUA U AU - AU - A
Esalsugineum	UAUCUU-UUG-CUU-UU-U
Cpapaya	UAACUUUAAUU-CU-U
Athaliana	AGUUU
Crubella	<u>UAACUU-CUAA</u>
Tcação	AAA AAAAAA <mark>A</mark> <mark>AAA - AA</mark> AGAU - GA UU - <mark>CU - C</mark>
Ptrichocarpa	AAU UAA AGGU - GA UU - CU - U
Pvulgaris	GAG <mark>AAA</mark>
Graimondii	AAAACA
Fvesca	CCUU <mark>CC</mark> AU <mark>UG</mark> UU-A
Stuberosum	GACUUUGAUU-UU-A
cons	

Alyrata U-UU<mark>U</mark>A---CCUU-----U-AU<mark>A</mark>----U-----U-Mdomestica U-UC--UAAA-AAAU--<mark>U</mark>U-AUU----UUGC-U---Mtruncatula U-UC-A-------U-GU-A---C-UU----A-AUU---AU-GCUU---Slycopersicum U-UUCA---CGUU-----U-AUG----G-----U-**BrapaFPsc** U-UU-A---U-U-----**Egrandis** A-UACA---UAAA-----G-AUC----C-----G-Cgrandiflora U-UU--UCAC-UU----C-AU-----UGAUU---**Ppersica** U-GC----C-UU----A-AUUUGCU-----UCU-Csinensis U--G-A---A-UG----A------UU-G---CU-Lusitatissimum U-GC----UU----A-AUUUGCU----UCU-Cclementina U-UGGG---GGAU-ACACACAUG----A---GCA--Gmax **Vvinifera** U-UG--UAU----UU--C---UU-----U--UU-CG A - <mark>AUAU</mark> - - - - - - GA - - - - - <mark>U</mark> - - - - - - <u>U</u> - - - - - -Rcommunis U-UU--UCU----<mark>U</mark>U--C-----------U<mark>A</mark>CUU-U-Spurpurea **Bstricta** U-UU<mark>UU</mark>---<mark>UU</mark>UU----<mark>C</mark>-AUU----U-----U-U-UUGA---G-U------AU-----Csativus C-AC-A---C-U-------C---UU------Acoerulea U-UU<mark>A</mark>AUCA----GU--<mark>AG</mark>-<mark>CU</mark>U----UU-----Mesculenta Mguttatus U-AU------AUA---UA-U----U-UCCA---CCUU-----U-AUG----U-----U-Esalsugineum U-UC----C-CU----A-AUU-AAUU----GGU-Cpapaya U-UUCA---CCUU-----<mark>U</mark>-AUG----U-----U-Athaliana A-UACA---UAAA-----G-AUC----U-----G-Crubella U-CU----U----GG--C------A-----Tcacao U-UU--UCU----<mark>U</mark>U--C<mark>UACU</mark>U-----UGCUU-U-Ptrichocarpa U-UCGA---GCAU-ACACACAUG----A-----**Pvulgaris** A-CU--A-U----GU--C-------U-----Graimondii AAGU-A---C-U------G---UU-----U-**Fvesca** U-GC-A---C-U-----Stuberosum

Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii Fvesca	-A ACCU - AU AC - U UC - UC
Stuberosum	UA <mark>U</mark> -AG <mark>U</mark> U-UU <mark>AG</mark> UUU
cons	
Alyrata Mdomestica Mtruncatula Slycopersicum BrapaFPsc Egrandis Cgrandiflora Ppersica Csinensis Lusitatissimum Cclementina Gmax Vvinifera Rcommunis Spurpurea Bstricta Csativus Acoerulea Mesculenta Mguttatus Esalsugineum Cpapaya Athaliana Crubella Tcacao	- C - CC - GUUUAUUUU U AUUU - UU -

Ptrichocarpa		AUUUA
Pvulgaris Graimondii		<mark>AGAC</mark> - <mark>A</mark> AUU <mark>G</mark> - UU A
Fvesca Stuberosum		<mark>AGCC-AUA</mark> AUU <mark>A</mark> -AUA
cons		

Alyrata Mdomestica ----<mark>U</mark>--UU----U -GUA---A Mtruncatula U<mark>U</mark>-U---Slycopersicum BrapaFPsc Egrandis UG-A---G Cgrandiflora U----U--**GG**----**G Ppersica** UGU----Csinensis Lusitatissimum AGCU----UGU - - - -**Cclementina** UC-U---G Gmax ----A **Vvinifera** Rcommunis Spurpurea -----U----U--------U AGG----A Bstricta Csativus Acoerulea G------U U-----G Mesculenta Mguttatus Esalsugineum AG - - - A - -Cpapaya Athaliana --U----UG-AUA--U-----G Crubella Tcacao Ptrichocarpa Pvulgaris Graimondii -----U U-----C GG-AUAGG **Fvesca** UC-ACA-A Stuberosum

cons