

T-COFFEE, dev_uciel@20151008_17:27 (dev_uciel@20151008_17:27)
 Cedric Notredame
 CPU TIME:0 sec.
 SCORE=621

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BAD **AVG** **GOOD**

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Alyrata	:	67
Mdomestica	:	62
Mtruncatula	:	61
BrapaFPsc	:	64
Egrandis	:	53
Cgrandiflora	:	69
Ppersica	:	61
Csinensis	:	66
Lusitatissimum	:	58
Cclementina	:	66
Gmax	:	63
Vvinifera	:	60
Rcommunis	:	60
Spurpurea	:	61
Bstricta	:	67
Csativus	:	60
Acoerulea	:	53
Mesculenta	:	61
Mguttatus	:	57
Esalsugineum	:	64
Cpapaya	:	59
Athaliana	:	65
Crubella	:	69
Tcacao	:	59
Ptrichocarpa	:	60
Pvulgaris	:	62
Graimondii	:	58
Fvesca	:	58
cons	:	62

Alyrata	-C-----A-C-A-----C-----
Mdomestica	-A-----C-CC-U-CU-C-U-----
Mtruncatula	-GCUU-CU-GC-C-A-C-GU-UA-C-U-U-
BrapaFPsc	-C-----G-U-A-----A-----
Egrandis	CU-CG-UUGAA-C-CC-C-A-AAU-----
Cgrandiflora	-----U-C-A-----C-----
Ppersica	-C-----U-CU-C-U-----
Csinensis	-A-----U-A-AA-U-UU-U-UAUC-
Lusitatissimum	-----C-UC-U-CU-----
Cclementina	-A-----U-A-AA-U-UU-U-UAUC-

Gmax	-A-----A--C-----UUC-AU-UU--U-CA-C-
Vvinifera	-U--UUCACUGCA--C-GCCAAU-C--C-----
Rcommunis	-U-----CCUU--U-G--C-UUUA--
Spurpurea	-A-AA--UGAA--C-AA--U-C--U-----
Bstricta	-C-----CU-U-A-----C-----
Csativus	-G-----UU-C-AC--UUCU-C-A--C-
Acoerulea	-U-----UU-U-A-----U-----
Mesculenta	-G-----C-UU--U-U--C-UUC--
Mguttatus	-C-----CU-C-U-----C-----
Esalsugineum	-----A-C-A-----
Cpapaya	-A-----U-A-UA--U-AU--A-U--
Athaliana	-C-----U-C-A-----C-----
Crubella	-----C-A-----C-----
Tcacao	-U-----AU-U-AC-AA-AU--A-----
Ptrichocarpa	-U-----GAG-C-AA--U-C--U-----
Pvulgaris	-U--CA--C--C-A-C-GU-UG-C-U-UA-CA
Graimondii	-A-----GAAUGC-CC--A-CUUC-U-----
Fvesca	-A-----GAA-C-CC--U-CC--U-----

cons



Alyrata	GCCAC-----AUAA-CA-UA--AA-U--
Mdomestica	-----CUCU-----CUCUC-U--C
Mtruncatula	-----CUC-----UC-U--
BrapaFPsc	AA-----CACA-CU-CACGCCAA--C--
Egrandis	-----CUC-----UC-U--
Cgrandiflora	GCCAA-----CACA-UA-CUCA-CUA-U--
Ppersica	-----CUCU-----CUCUC-U--C
Csinensis	GACACCCAUAUAGG-----CCAA-U--
Lusitatissimum	-----CUC-----UC-U--
Cclementina	GACACCCAUAUAGG-----CCAA-U--
Gmax	UUCACUCGUU--G-----CUCCU--
Vvinifera	-A-A-----CUUA-----CUC-A--
Rcommunis	-----AAUAAC-----C-----
Spurpurea	-----CUG-----UG-U--
Bstricta	GUAAA-----ACACA-CU-CACGCCAA--C--
Csativus	-----U-----UCUC-A--
Acoerulea	AUAAA--AUAAAACAAAGCU-CUG--CUA-GAAG
Mesculenta	-----U-ACG-----CCUA-C--
Mguttatus	-C-----CUA-U--
Esalsugineum	-----CA-CU-CACGCCAA--C--
Cpapaya	ACCUG-----ACC-CUUCUUC--AC-CU--
Athaliana	GCCAG-----CACA-CA-CACA--CA-C--
Crubella	GCCAA-----CACA-UA-CUCA-CUA-U--
Tcacao	-----AAA-----UAAAA
Ptrichocarpa	-----CUU-----UCUG-U--

Pvulgaris	UAACUCUCUUCUG-----UC-U--
Graimondii	-AGACUCAAU-----CUC-U--
Fvesca	-----CUC-----UC-U--

cons	
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Alyrata	-----AAAUU--A-----UAUAUA-C
Mdomestica	UCUCUCUCUAUN--U-----MU--
Mtruncatula	-----AGUUAGA-----U-
BrapaFPsc	-----AUACAU-----UAU--UC
Egrandis	-----CUC--U-----CU--
Cgrandiflora	-----ACAUG-----U--
Ppersica	UCCC-----
Csinensis	-----ACUUGGAA-----A--AUUUAA-
Lusitatissimum	-----CUC--U-----CU--
Cclementina	-----ACUUGGAA-----A--AUUUAA-
Gmax	-----GCCACGCU--GCUUAUAUUAA--U-
Vvinifera	-----AUU--G-----CU--
Rcommunis	-----CUU-----AUUU--
Spurpurea	-----AAG--U-----GU--
Bstricta	-----ACAUACA-C-----UAU--AC
Csativus	-----CUU-----UCU--
Acoerulea	-----AAACC-----U--C
Mesculenta	A-----CUUGGAAGAA-----AUUUUU-
Mguttatus	-----AUUAUAUAUC-----UAU--C
Esalsugineum	-----AUACAU-----UAU--AC
Cpapaya	-----CCUU-----C
Athaliana	-----ACACA-----UAAC
Crubella	-----ACAUG-----U--
Tcacao	-----AAA--G-----AA--
Ptrichocarpa	-----ACG--U-----AU--
Pvulgaris	-----CCUUCUC-----UCUCUCACA--CA-
Graimondii	-----AUU-----ACU--
Fvesca	-----CUC--U-----CU--

cons	
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Alyrata	A--UA-UACGUA-----U-----GU--
Mdomestica	-----C--U-----CUC--U
Mtruncatula	-----C--UC-----UU--A
BrapaFPsc	AUAUU--CAUG-----U-----GU--
Egrandis	-----C--GCUUAUAAAUACCCAC--C
Cgrandiflora	U--AA-UACGUA-----U-----GU--
Ppersica	-----

Csinensis	-----AC--AAAC--A-----CAC--A
Lusitatissimum	-----C--U-----CUC--A
Cclementina	-----AC--AAAC--A-----CAC--A
Gmax	-----C--UC-----UU--C
Vvinifera	-----C--U-----CUU--U
Rcommunis	-----C--U-----CUC--
Spurpurea	-----C--U-----CUU--C
Bstricta	---UA-UACGUA-----GU--
Csativus	-----C--AC-----UU--U
Acoerulea	A--AU-CAACUC-----CUU--C
Mesculenta	-----A--C--U-----CUU--G
Mguttatus	AUCUCUUGCCUU-----CU--
Esalsugineum	AUAUA-UACAUA-----AU--
Cpapaya	A--UC-CACCUCCUCCUU-----CU--
Athaliana	A--UA-UACGGA-----GU--
Crubella	A--AA-UAAGUA-----GU--
Tcacao	-----G--C-----CUGCUC
Ptrichocarpa	-----C--U-----CUU--C
Pvulgaris	-----C--AC-----AC--A
Graimondii	-----C--UC-----UU--U
Fvesca	-----C--U-----CUU--C

cons

Alyrata	-----GCG--UGU--G-----AG
Mdomestica	C--U-----C-----UC--
Mtruncatula	U--GU-----CA--UAU--A-----UC--
BrapaFPsc	-----AUG--UAUAUG-----AA
Egrandis	A-----G-----CU--
Cgrandiflora	-----GCGCGUGU--G-----AG
Ppersica	-----
Csinensis	C--G-----C-----A--C--
Lusitatissimum	C--U-----C-----A--
Cclementina	C--G-----C-----A--C--
Gmax	U--GU-----C-----CC--
Vvinifera	U--U-----C-----UC--
Rcommunis	-----U--U-----UCU--
Spurpurea	C-----C-----CA--
Bstricta	-----GCG--UGU--G-----AG
Csativus	UCUCUCUCUCUUUCA--AAA--CAACAAACCA--
Acoerulea	U--UG-----GCU--UCU--U-----AA
Mesculenta	-----GCU--UAA--AUAACUUACG--
Mguttatus	-----UAC-----AA
Esalsugineum	-----AUG--UAUAU-----G
Cpapaya	-----UCC--CCA-----AA
Athaliana	-----GCG--UGU--GA-----GCUAG

Crubella	-----GCGCGUGU--G-----AG
Tcacao	C-----G-----UC-----CC--
Ptrichocarpa	C-----C-----CA--
Pvulgaris	C-----U-----C-----AC--
Graimondii	U-----UU-----UC-----UC--
Fvesca	U-----U-----C-----GA--

cons	
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Alyrata	UCUU-----CC-----AUU-AA-UGCA-----
Mdomestica	UCUC-----U-C-----U-----CC-----C-
Mtruncatula	UCUC-----UC-UC-----U-----CC-----U-
BrapaFPsc	UGUU-----CC-----AUU-AA-UGCA-----
Egrandis	UCAA-----G-C-----U-----UC-----UU
Cgrandiflora	UCUC-----CCAUCCAUC-AA-UGCA-----
Ppersica	-----CC-----C
Csinensis	UCUC-----CC-----U-----CU-----C
Lusitatissimum	GCUCUGCCUAUA-----UA-A-----AUG-----A
Cclementina	UCUC-----CC-----U-----CU-----C
Gmax	UCUC-----UC-U-----CA-----G
Vvinifera	UUUC-----U-C-----UU-C-----CCC-----CU
Rcommunis	UCAC-----U-----U-----GC-----U
Spurpurea	UCUC-----U-C-----U-----CCC-----G
Bstricta	UCUU-----CC-----AUU-AA-UGCA-----
Csativus	UAAAUGUGUG-A-AG-U-----CC-----
Acoerulea	-CGA-----AA-----AUAUAGCUUGCA-----
Mesculenta	-UAC-----U-----U-----CC-----U-
Mguttatus	UAUA-----AC-----AUA-AA-AACA-----G
Esalsugineum	UGUU-----UC-----AUA-AA-UGCA-----
Cpapaya	ACUU-----UC-----UUA-AC-UGUU-----
Athaliana	UCUU-----CC-----AUU-AA-UGCA-----
Crubella	UCUU-----CCAUCCAUC-AA-UGCA-----
Tcacao	UCUC-----CG-----UU-U-----CUC-----U-
Ptrichocarpa	UCUC-----C-C-----U-----CCC-----GA
Pvulgaris	UCGC-----AC-U-----CA-----
Graimondii	UCUC-----UC-----UC-U-----CUUCGGAAA-
Fvesca	CCUC-----UA-----UC-U-----CUU-----U-

cons	
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Alyrata	AUCUUUGGG-----CCU-----A
Mdomestica	C-AUUUGC-----A-GCU-----A
Mtruncatula	A-AGUUGCU-----A-CCU-----A
BrapaFPsc	AUCUUUGGG-----G-CCU-----A

Egrandis	C-U--GUC-----G-CUU-----A
Cgrandiflora	AUCUUUGGG-----GCU-----A
Ppersica	C-AUUUGC-----G-CCU-----A
Csinensis	U-UUUUUC-----G-CCU-----A
Lusitatissimum	--AG---A-----A-C-CAGAUGGAUAGA
Cclementina	U-UUUUUC-----G-CCU-----A
Gmax	A-AUUUGC-----A-CCU-----A
Vvinifera	C-A-UUUC-----U-CCU-----A
Rcommunis	U-CCCUCC-----CCU-----A
Spurpurea	C-GCUCGC-----A-CUU-----A
Bstricta	AUCUUUGGG-----CCU-----A
Csativus	--CUUUGUU-----A--U-----A
Acoerulea	CACAAUGG-----
Mesculenta	U-UCUUUC-----UCU-----A
Mguttatus	AGCAAUGCCUUCAAAAUAUUG-CUA-----A
Esalsugineum	AUCUUUGGG-----G-CCU-----A
Cpapaya	CUCU--GCA-----UACAU-----A
Athaliana	AUCUUUGGG-----CCU-----A
Crubella	AUCUUUGGG-----GCU-----A
Tcacao	C-UCUUGC-----A-CUU-----A
Ptrichocarpa	C-ACUCGC-----A-CCU-----A
Pvulgaris	--AGUUGC-----A-CCU-----A
Graimondii	A-ACUUGU-----A--U-----A
Fvesca	--GUUUGC-----A-C-U-----A

cons



Alyrata	UAUAUAUAUAC-A--AAC-C-UU--C-C----A-U-
Mdomestica	UAAAU-----C-G-UAUG-C-UU-CUU-CUUC-UU
Mtruncatula	UAAAU-----CU--AAG-C-CU-UUC-C---C-UU
BrapaFPsc	UAUAUA-----C-G--AAG-C-UU--A-C---A-U-
Egrandis	UAACUC-----A-UCAG-C-AA-CAG-----
Cgrandiflora	UAUAUA--UAC-A--AAC-C-UU--U-CC---A-U-
Ppersica	UAAAU-----ACA-UUGG-U-UU-CUU-CUUC-UU
Csinensis	UAAAU-----CA-CAAG-C-UU-CUU-C-----
Lusitatissimum	UAGAUAGCUC-ACAUCA-U-----CCG---A
Cclementina	UAAAU-----CA-CAAG-C-UU-CUU-C-----
Gmax	UAAAU-----CU--GAG-C-CU-CUA-C---U-U-
Vvinifera	UAAAU-----CA-UCCC-CCUU-CCU-----
Rcommunis	UAAAU-----CA-UGGG-A-UUUCUU-G-AGCAUC
Spurpurea	UAAAU-----C-A-CGAG-U-UU-CUU-G-----
Bstricta	UAUAUA-----C-A--AAC-C-UU--U-CG---A-U-
Csativus	UAAAU-----CC-CAGA-C-CU-CUU-C---U-U-
Acoerulea	-----AG-C-UG--G-A-----A-G-
Mesculenta	UAAAU-----UA-UGAG-C-UU-CUC-C-----
Mguttatus	GAGUUA-----U-----GG--UU--G-U---A-G-

Mdomestica	-----G--AG-UA-G-----A--GU
Mtruncatula	-UUC-----A-AUUCA-ACUUCU-A--CU
BrapaFPsc	-----C-AC-CA-A-----A--GC
Egrandis	CAUCCCG-----C-A-----C-----GCACGC
Cgrandiflora	-----A-AC-CA-A-----A--GC
Ppersica	-UCA-AAUG-----UA-AG-GA-A-----G--AG
Csinensis	-----AC-CGUCUUUUUAAA-----C
Lusitatissimum	-AAA-A-UAUCCUAA--AC-CA-U-----U--AU
Cclementina	-----AC-CGUCUUUUUAAA-----C
Gmax	-----ACUAC-CA-C-----A--C
Vvinifera	---C-UCU-----A-CU-GA-AUUUGC-A--GC
Rcommunis	CUUCAAAAC--C-----AC-CA-A-----U-AC
Spurpurea	-UUCAAAA-----C-AC-CA-A-----ACUGGC
Bstricta	-----A-AC-CA-A-----A--GC
Csativus	-----C-UU-C-----U
Acoerulea	-----G-GG-CAAG-----U--GG
Mesculenta	---G--C-----UC-CA-----C
Mguttatus	-----A-UA-CA-U-----A--CA
Esalsugineum	-----A-AC-CA-G-----A--GC
Cpapaya	-----A-----A--UA
Athaliana	-----A-AC-CA-A-----A--GU
Crubella	-----A-AC-CA-A-----A--GC
Tcacao	-UAC-AC--UC--A--CA-CA-U-----C--UC
Ptrichocarpa	-UUCAGAC-----A-AC-CG-A-----ACUAGC
Pvulgaris	-----AC-CA-C-----C--C
Graimondii	-----G-CU-UU-C-----U--UGC
Fvesca	-CAC-AAC-UC--A-AC-CA-U-----U--UC

cons	
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Alyrata	UA-----U--C-----A-----UA-----
Mdomestica	UC-----U-----CA-----U-UG-----
Mtruncatula	UC-----U-----CA-----UC-----
BrapaFPsc	UC-----U--C-----A-----UA-----
Egrandis	AC-----A--C-----CA-----AUUG-U-----
Cgrandiflora	UC-----U--C-----A-----UAU-----A
Ppersica	UG-----U-----GG-----GUGC-----
Csinensis	UC-----A-----CA-----UA-----
Lusitatissimum	UU-----CU--C--U--CUGUCUUUUU-----
Cclementina	UC-----A-----CA-----UA-----
Gmax	UC-----G-----CA-----UA-----
Vvinifera	GC-----UCC-C--UCUCCA--UUAUU-----
Rcommunis	UU-----A-----CU-----UAA-----
Spurpurea	UU-----A--G-----CA-----UUUUGUG-----
Bstricta	UC-----U--C-----A-----UA-----
Csativus	UC-----U-----U--CA-----CA-----

Acoerulea	UCGAUUU	-----	CA	-----	U	-----
Mesculenta	CC	-----	U	-----	CA	-----
Mguttatus	UA	-----	UAUACAUA	-----	UAU	-----
Esalsugineum	UC	-----	U	-----	C	-----
Cpapaya	UA	-----	U	-----	A	-----
Athaliana	UC	-----	U	-----	C	-----
Crubella	UC	-----	U	-----	C	-----
Tcacao	UA	-----	C	-----	U	-----
Ptrichocarpa	UU	-----	A	-----	A	-----
Pvulgaris	UC	-----	G	-----	CA	-----
Graimondii	AC	-----	UCAAC	-----	U	-----
Fvesca	UU	-----	U	-----	C	-----

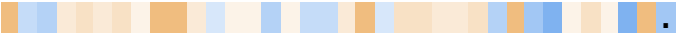
cons



Alyrata	---	CU	---	A	---	CAA	-----	A	AG	CUC	---	UC
Mdomestica	---	AA	---	ACA	-----	CA	AA	---	G	---	---	---
Mtruncatula	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
BrapaFPsc	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Egrandis	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Cgrandiflora	UA	CU	---	A	---	CAA	-----	A	AG	CUC	---	---
Ppersica	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Csinensis	---	UG	---	GC	-----	CA	AA	---	G	---	---	---
Lusitatissimum	---	UG	---	GC	-----	CA	AA	---	G	---	---	---
Cclementina	---	UG	---	GC	-----	CA	AA	---	G	---	---	---
Gmax	---	CU	---	CA	-----	CA	AA	---	G	---	---	---
Vvinifera	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Rcommunis	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Spurpurea	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Bstricta	---	CU	---	A	---	CAA	-----	A	AG	CUC	---	---
Csativus	---	AA	---	AA	-----	CA	AA	---	G	---	---	---
Acoerulea	---	U	---	G	---	GAA	-----	CA	AG	AUC	---	AUC
Mesculenta	---	AC	---	A	---	CAUCAUUUUGAGCA	---	AG	UG	---	---	---
Mguttatus	UG	GU	---	A	---	G	-----	A	UG	G	---	---
Esalsugineum	---	UU	---	A	---	CAA	-----	A	AG	CUC	---	---
Cpapaya	AGAGUGAGA	---	CA	---	CA	AA	---	A	AG	CUC	---	---
Athaliana	---	CU	---	A	---	CAA	-----	A	AG	CUC	---	---
Crubella	AA	CU	---	A	---	CAA	-----	A	AG	CUC	---	---
Tcacao	---	UU	---	UCAG	-----	CA	AA	---	G	---	---	---
Ptrichocarpa	---	UU	---	UCAG	-----	CA	AA	---	G	---	---	---
Pvulgaris	---	CU	---	U	---	GAA	-----	A	AG	CUC	---	---
Graimondii	---	CU	---	U	---	GAA	-----	A	AG	CUC	---	---
Fvesca	---	UU	---	UCAG	-----	CA	AA	---	G	---	---	---

cons



Alyrata	--UC-----GUA-CUU-----GGAA-AUG-C--G
Mdomestica	---GCU-----AAGGCUUG-AAA-----C--G
Mtruncatula	---UGCAA--UAAG-CUUC-AU--UUC---CU--G
BrapaFPsc	---ACAUA--UAUA-CUU-----GGAA-AUG-U--A
Egrandis	---GAUCUAUCUCG-----UAUA-----UUGCA
Cgrandiflora	---A-----CUUG-----GGAA-AUG-C--G
Ppersica	---CAAG---CAAGGCUUGUAAGUAGA---GC--G
Csinensis	-C--UUUG--UAUUGU-----UCUA--UU--G
Lusitatissimum	-----AGUU-----UC--G
Cclementina	-C--UUUG--UAUUGU-----UCUA--UU--G
Gmax	---UGAAG--UGA--UUC-UUCUUCA---CU--G
Vvinifera	---CUAU--C-UG-CUC-----UUCA---CU--G
Rcommunis	---C-----CA--UUG-A-UUUAA---AU--G
Spurpurea	---CGAAG--UUG-UGUGGAAGUUUA---AU--G
Bstricta	---AC-----AUA-CUU-----GGAA-AUG-A--G
Csativus	---GAAA--AAAGG-UUG-AUUGUGU---GU--G
Acoerulea	---AA-----GAA-CAA-----A-AA-AUACA--G
Mesculenta	---CAUG--CA--UUG-GGUUUUA---GU--G
Mguttatus	---U-----AUA-CUU-----AUAAUAUA-U--G
Esalsugineum	---ACAUA--UAUG-GUUA-AU-GGAA-UUG-C--G
Cpapaya	---AC-----CGA-----GGCA-AUU---G
Athaliana	UCAU-----GUG-CUU-----GGAA-AUG-C--G
Crubella	---A-----CUUG-----GGAA-AUG-C--G
Tcacao	CU-CGUU--CAUGGUUUC-AGC--UA---CC--G
Ptrichocarpa	---CCAA--UUG-UAUGAAAUUUUA---AU--G
Pvulgaris	---UGCAG--UAA--UUU-UCGUUCA---CU--G
Graimondii	-C--UUG--GAUGGGU-----UGG---UUGGG
Fvesca	GC-CAUG--CAAGGUUG-----UA---GA--A
cons	

Alyrata	-GGUGAGAAUC--UCCAUGUUGGAGAAGCAGGGCAC
Mdomestica	-GGUGAGA--C--UCCUUGUUGGAGAAGCAGGGCAC
Mtruncatula	-GGUGAGAAGC--UCCUUGUUGGAGAAGCAGGGCAC
BrapaFPsc	-GGUGAGAACC--UCCAUGUUGGAGAAGCAGGGCAC
Egrandis	-GGCGGGUAGCUUCCUUGCUGGAGAAGCAGGGCAC
Cgrandiflora	-GGUGAGAAUC--UCCACGUUGGAGAAGCAGGGCAC
Ppersica	-GGUGUGG--C--UCCUUGUUGGAGAAGCAGGGCAC
Csinensis	-GGUGAGUAGC--UCCUUGCUGGAGAAGCAGGGCAC
Lusitatissimum	-GGAGAGAAGC--UCCUUGCUGGAGAAGCAGGGCAC
Cclementina	-GGUGAGUAGC--UCCUUGCUGGAGAAGCAGGGCAC
Gmax	-GGUGAGAAGC--UCCUUGUUGGAGAAGCAGGGCAC
Vvinifera	-GGUGUGUAGC--UCCUUGUUGGAGAAGCAGGGCAC

Rcommunis	-GGUGGAUAGU--UCCU-GCUGGAGAAGCAGGGCAC
Spurpurea	-GGUGAGCGGU--UCCUCGUUGGAGAAGCAGGGCAC
Bstricta	-GGUGAGAAUC--UCCACGUUGGAGAAGCAGGGCAC
Csativus	-GGUGAGAAAA--UUCUUGUUGGAGAAGCAGGGCAC
Acoerulea	-GGAGC-UGGA--GCCAUGCUGGAGAAGCAGGGCAC
Mesculenta	-GGUGGGAAGC--UCCU-GCUGGAGAAGCAGGGCAC
Mguttatus	GAGAGAGAAGC--UC-UCGUUGGAGAAGCAGGGCAC
Esalsugineum	-GGUGAGAAGC--UCCACGUUGGAGAAGCAGGGCAC
Cpapaya	-GGUGAGUAGC--UCCCGUUGGAGAAGCAGGGCAC
Athaliana	-GGUGAGAAUC--UCCAUGUUGGAGAAGCAGGGCAC
Crubella	-GGUGAGAAUC--UCCACGUUGGAGAAGCAGGGCAC
Tcacao	-GGUGAGUAGC--UCCUUGUUGGAGAAGCAGGGCAC
Ptrichocarpa	-GGCGAGCGGU--UCCUUGCUGGAGAAGCAGGGCAC
Pvulgaris	-GGUGAGAAGC--UCCUUGUUGGAGAAGCAGGGCAC
Graimondii	-GGUGAGUAUC--UC-UUGUUGGAGAAGCAGGGCAC
Fvesca	-GGUGAGG-GU--UCCUCGUUGGAGAAGCAGGGCAC

cons	
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Alyrata	GUGCAAAC-C-A-A-----C
Mdomestica	GUGCAAAC-CC--C-A-----UGGC
Mtruncatula	GUGCAA AU-CC-UCU-UUCU-----GA
BrapaFPsc	GUGCAAAC-C-A-A-A-----
Egrandis	GUGCAAAA-GU--GCA-----A-A-GC
Cgrandiflora	GUGCAAAC-C-A-A-----C
Ppersica	GUGCAAAC-CC--C-U-----UGGC
Csinensis	GUGCAAACACC--ACU-----UGGC
Lusitatissimum	GUGCAAAA-GA--ACA-AU-AC--UU-----UGGC
Cclementina	GUGCAAACACC--ACU-----UGGC
Gmax	GUGCAACU-CU--CUA-----GGC
Vvinifera	GUGCAGAU-UU--GCC-UC-AC--UU-----UUC
Rcommunis	GUGCAAAC-CC--C-A-AC-A-----C
Spurpurea	GUGCAAAA-----
Bstricta	GUGCAAAC-C-A-A-----C
Csativus	GUGCAAAC-UC-ACCC-A-----U
Acoerulea	GUGCCAGA-C-UUA-----C
Mesculenta	GUGCAAAC-UC--C-A-----
Mguttatus	GUGCAUAU-UCU-A-U---AG---UUAUAGUAGC
Esalsugineum	GUGCAAAG-C-A-A-U---A---AAU-----C
Cpapaya	GUGCAA AU-U-C-U-----C
Athaliana	GUGCAAAC-C-A-A-----C
Crubella	GUGCAAAC-C-A-A-----C
Tcacao	GUGCAAAA-UU--GCCAAU-CCAUUUU-----GGC
Ptrichocarpa	GUGCAAAA-----
Pvulgaris	GUGCAAGU-GU--GCA-A-CUC---U-----UGGC
Graimondii	GUGCAAGU-UC--C-U-----A-----UG-

Fvesca GUGCAAAA-CC--C-----UU-----CGGC

cons ****.

Alyrata AA---A---CA---C-G--A-AA--UCC-GUC--
Mdomestica UA-UGCUU-----C-A-AA--UGC----GA
Mtruncatula UU---CAUU-----CUCUCAUAA--UGC-AU-AU
BrapaFPsc AA---A---CA---U-G--A-AA--UCU-GUU--
Egrandis UC---CU-U-CG-CUUUUG--C-AA--UGC-----
Cgrandiflora AA---A---CA---C-G--A-AA--CCC-UCC--
Ppersica UU-UGCUUU-UG-CUUUUC--A-AA--CCA----AA
Csinensis UC---CU-UUCGGUUUCA--GA-AU--UGC-C--AC
Lusitatissimum ---CA---U-G-----G-C--GG
Cclementina UC---CU-UUCGGUUUCA--GA-AU--UGC-C--AC
Gmax UC---U-----CUU--A-AG--CGC-C--AU
Vvinifera CC---CUUU-UUUCUUCUU--U-AC--UCC-C--AC
Rcommunis UC---CU-U-GG-UUUCUU--G-AA--UGC-C--AA
Spurpurea UC---CU---GA---U-G--A-AGCGUGC-----
Bstricta AA---A---CA---C-G--A-AA--UCC-GUC--
Csativus U---U-----CUA---AA--C-----
Acoerulea A-----U-----A-AA--UGC-AUG--
Mesculenta ---U-GG-CUUCUC--A-AA--UGC-C--AU
Mguttatus AA---CA---CA---C-G--ACAA--UCUUGUUAU
Esalsugineum AA---A---CA---C-G--A-AA--UCU-GUC--
Cpapaya ---CA---U-G--G-----CU-UUC--
Athaliana AA---A---CA---C-G--A-AA--UCC-GUC--
Crubella AA---A---CA---C-G--A-AA--CCC-UCC--
Tcacao UU---CU-----C--A-AA--UGC-C--AU
Ptrichocarpa UC---CU---GA---U-G--A-AG--UGC-----
Pvulgaris UC---U-----CUU--A-AA--CGC-C--AU
Graimondii ---UU-----U--A-AG--UG-----
Fvesca UAAUACU-----U-C-----A-G-

cons

Alyrata ---UCA-U---G-UG---U---U-UUGCACG
Mdomestica ---GCGAA-U---A-AG-UUY---U-UUGCACG
Mtruncatula ---CAAU---A-UC---U---U-UUGCACG
BrapaFPsc ---UCA-U---A-UG---C---U-UUGCACG
Egrandis ---CA-U---G-GCUUUA---U-UUGCACG
Cgrandiflora ---UCA-U---G-UG---C---U-UUGCACG
Ppersica AAA-GCUAG-U---A-AG-UUG---UUGCACG
Csinensis ---UAAA---UC---C---U-UUGCACG
Lusitatissimum ---G-UUA-U---G-GG---U---U-UUGCACG

Cclementina	-----UAAA-----UC---C---U-UUGCACG
Gmax	-----UGAA-----CC---C---U-UUGCACG
Vvinifera	CACCGCCCA-C---A-GG---C---U-UUGCACG
Rcommunis	U-----GGAAACUAUACUC---U---U-UUGCACG
Spurpurea	-----ACU-U---A-GA---C---U-UUGCACG
Bstricta	-----UCA-U---G-UG---C---U-UUGCACG
Csativus	-----C---C---U-UUGCACG
Acoerulea	-----CA-A---G-U---U-UUGCACG
Mesculenta	-----UC-AU---CUC---U---U-UUGCACG
Mguttatus	-----UCG-U---G-UG---UGGAU-UUGCACC
Esalsugineum	-----UCA-U---G-UG---G---U-UUGCACG
Cpapaya	-----CCC-U---C---U-UUGCACG
Athaliana	-----UCA-U---U-UG---C-UUAU-UUGCACG
Crubella	-----UCA-U---G-UG---C---U-UUGCACG
Tcacao	---G-UCU-C---G-CG---U---U-CUGCACG
Ptrichocarpa	-----U-U---A-CA---C---U-UUGCACG
Pvulgaris	-----AGAA---C-UC---A---U-UUGCACG
Graimondii	-----AA---C---U-UUGCACG
Fvesca	---C-UGA-A---A-AG---C---UCUUGCACG

cons		***.*
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Alyrata	UACUCCCCUUCUCCAACAUGAGCUCCUGACCC--AU
Mdomestica	UGCUCCCCCUCUCCAACACGGGUUCCUCACCU--AU
Mtruncatula	UGCUCCCCUUCUCCAACUAGGCUUCCUCACCC--UU
BrapaFPsc	UGCUCCCCUCUCCAACAUGAGCUCCUCACCA--U-
Egrandis	UGCUCCCCUUCUCCAACACGGGUUCCCGCCU--UA
Cgrandiflora	UACUCCCCUUCUCCAACAUGAGCUCCUCACCC--AU
Ppersica	UGCUCCCCUUCUCCAACAUGGGUUCCUCACCU--AU
Csinensis	CGCUCCCCUUCUCCAACAUGGGUUCCUCACCU--UU
Lusitatissimum	UGCUCCCCUUCUCCAACAUGGGUUUCUCAUCCCAU
Cclementina	CGCUCCCCUUCUCCAACAUGGGUUCCUCACCU--UU
Gmax	UGCUCCCCUUCUCCAACACGGCUUCCUCACCC--UC
Vvinifera	UGCUCCCCUUCUCCAACAUGGGUUCCUCACCC--CU
Rcommunis	UGCUCCCCUUCUCCAACAUGGUUCCUCACCC--UU
Spurpurea	CGCUCCC UUUCUCCAACAUGGGCUCUUCACCC--CU
Bstricta	UACUCCCCUUCUCCAACAUGAGCUUCUCACCC--AC
Csativus	UGCUCCCCUUCUCCAACAUGGCUUCCUCACCC--UU
Acoerulea	UGCUCUAGCUCUCCACCUUGGAC-CUUCUCC--UU
Mesculenta	UGCUCCCCUUCUCCAACAUGGUUCCUCACCC--UU
Mguttatus	UGC CCCCCUUCUCCAACAUGCGCUC-UCACUC--CU
Esalsugineum	UGCUCCCCUCUCCAACAUGAGCUCCUCACCU--U-
Cpapaya	UGCUCCCCUUCUCCAACAUGGGUUCCUCACCU--UU
Athaliana	UACUUAACUUCUCCAACAUGAGCUCUUCACCC--AU
Crubella	UACUCCCCUUCUCCAACAUGAGCUCCUCACCC--AU
Tcacao	UGCUCCCCUUCUCCAACACGGGUUCCUCGCCU-AU

Ppersica	-G-G---GUU---C---C---U-----C-----
Csinensis	---CACUCU-----UA-ACU-C---CU-G-AA-
Lusitatissimum	---U---CA---U---C-GGGCAUUUCGU-C-GA-
Cclementina	---CACUCU-----UA-ACU-C---CU-G-AA-
Gmax	---UUCUCAG---U---U-ACU-C---CG-G-U-
Vvinifera	---G---CUA---U---U-G-----
Rcommunis	---U---CCAG---U---C-UGG-UAUUACU-G-GU-
Spurpurea	---U---CAA---U---C-CCC-A-UUGGU-G-GAU
Bstricta	U-----UAAACCU---U-GCU-A-UU-----
Csativus	---U---CUAA---UUAUU-UCU-U-UCCAU-----
Acoerulea	UC---AAGCAU---U-CCA---G-----CA-
Mesculenta	---U---CAA---C-UGC-AGUGGCG-C-AU-
Mguttatus	C-----GAA---U---U-UCU-C-UCAAU---GG-
Esalsugineum	C-----AUGCA---U-CUU-----U---GA-
Cpapaya	ACCCAC-UACACUA---U-GCU-----G-
Athaliana	U-----UAAACCU---U-AUU-G-AU-----AA-
Crubella	U-----CAAACCU---U-GCU-C-UUGCU---GA-
Tcacao	---U---UU---C---U-ACUA-CCUCGU---UU-
Ptrichocarpa	---U---GGA---U---G-GAU-G-UU-----
Pvulgaris	---UUCUCUG---U---U-ACU-C-U---CUAC--U-
Graimondii	---U---GAA---U---CUGCA-ACUGCA-UCUC-
Fvesca	---G---CC---U---C-AGU-GCUUCU-C-UU-

cons



Alyrata	-----UA--A-AU-----
Mdomestica	-----C-----UAACU-CAGAG---U-UC-AG
Mtruncatula	-----C-----AU-----CA-GG
BrapaFPsc	-----UA--A-ACA-----U---
Egrandis	-----CGACGAAA---AUG-GA---GU---G
Cgrandiflora	-----UA--C-AUA-----U---
Ppersica	-----AGG---U-GC-UG
Csinensis	-----AGA-AUGAGC---U-UC-UG
Lusitatissimum	-----AC-----AGC---U-UC-U-
Cclementina	-----AGA-AUGAGC---U-UC-UG
Gmax	-----G-----AG---UC-UG
Vvinifera	-----C-UU
Rcommunis	---G-----U-AUGGUG---U-UC-U-
Spurpurea	GCACGUU-GCA-GGUAAUA-AUC-AC---C---U
Bstricta	-----A-AU-----
Csativus	-----CACUUC---AUG-GCUUCU-UC-UG
Acoerulea	-----GG---AGAAA-----G---
Mesculenta	-----C-----GUGUUG-----
Mguttatus	-----UA--A-CU-----
Esalsugineum	-----UA--A-AUA-----C---
Cpapaya	-----C-AUG-----U---

Athaliana	-----UG-----
Crubella	-----UA--C-AUA-----U--
Tcacao	-----GCA--AGC--U--CU-C
Ptrichocarpa	-----GCA-GGUAACA-AUG-GC--U--G
Pvulgaris	-----G-----AA--CC-UG
Graimondii	ACCUCUUUG-----AAACU-AC-AGA--UGUCA-A
Fvesca	-----CCA-----ACG--UU-UCAUG

cons	
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Alyrata	-----U-----CU
Mdomestica	A--C--A--UCC-----AU-----GC
Mtruncatula	U--AAUU--UA-----A--UUGCC
BrapaFPsc	-----AG-----GA
Egrandis	-----U--UCG-----AG-----U-
Cgrandiflora	-----UU-----GU
Ppersica	U--U--A--UAA-----U-----AG-----GU
Csinensis	C--C--U--UGG-----AG-----GU
Lusitatissimum	---ACUCAUUA-----AG-----GA
Cclementina	C--C--U--UGG-----AG-----GU
Gmax	C--CACU--UC-----AU--GAGGU
Vvinifera	C---AU--UUG-----G-----GU
Rcommunis	-----U--UGA-----UCAUCAGGU
Spurpurea	-----C--ACU-----G-----U-
Bstricta	-----U-----CU
Csativus	CUUCGCU--UCGUCUGCAUGC-----AG-----GU
Acoerulea	-----AG-----GU
Mesculenta	-----U--UGA-----AGGU
Mguttatus	-----
Esalsugineum	-----AG-----GA
Cpapaya	-----AU-----AU
Athaliana	-----U-----GU
Crubella	-----UU-----GU
Tcacao	U--AA--UGC-----AU-----GA
Ptrichocarpa	-----A--UCU-----G-----G-
Pvulgaris	C--CACU--UG-----A--GAGGU
Graimondii	C--C--A--GGA-----CAAAAAAAG-----GU
Fvesca	C--AACU--UCC-----CC-----AG

cons	
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Alyrata	A--GC-----AACU-CAAGUGUU--U-----UUUG-
Mdomestica	A-AGU--U-C-----U--UG--AUCU-C-
Mtruncatula	A-----UG--CUUCUU-

BrapaFPsc	A--CU-----CAAG-CUAGCGUU--UU--GUUGG--
Egrandis	---U-U-A---C---UG--AUCU---
Cgrandiflora	A--CU-----AACU-CUAGUUUU--UG--UUUUU--
Ppersica	A-AUA--U-----GUUU-GC
Csinensis	A-AGG--UAU-----G--UG--GUUCUG-
Lusitatissimum	U-AGCC-UCU-----G--UUUUUGUUC-
Cclementina	A-AGG--UAU-----G--UG--GUUCUG-
Gmax	A-A-----U--UG--CUU-UC-
Vvinifera	A-AUG--CAC-----U--U--UUCUCC
Rcommunis	A-GU--A-----UA--UAUCUC-
Spurpurea	---U-U-C-----U-----U--
Bstricta	U--CC-----AAC-----UUU
Csativus	A-AUUAUUAA-----A--UA--UUUCUAA
Acoerulea	ACACU--UAUAUCA-AUAUCAUU--CA--GUGGC--
Mesculenta	A-AU--UAA-----C--UA--GUUUC--
Mguttatus	-----
Esalsugineum	A--CU-----CAA-----GCGUU--AU-----UU--
Cpapaya	A--CU-----AUAUACUA-CAUUCAUA--UACAU--
Athaliana	-----U-----UUU--
Crubella	A--CU-----AACU-CUAGUUUU--UG--UUUUU--
Tcacao	A-UA-A-UUU-----G--UA--AGUAA--
Ptrichocarpa	---U-U-A-----G--AUCU--
Pvulgaris	A-A-----A-----U--UG--CUU-UC-
Graimondii	A-AUA--UAU-----C--AU-----
Fvesca	A-AG-C-UAG-----C--AG--GUAU--

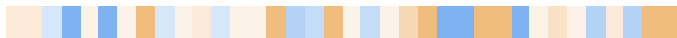
cons



Alyrata	GGUUGUU-CUUAUU--U-AA-----GU-A--
Mdomestica	-CC-G---CUG-UU--A-CA-----G--UGC--
Mtruncatula	-CU-U-----UC-UU-CUUA-----ACA--
BrapaFPsc	GAUUGUU-CUA--A-----A-A--
Egrandis	-UG-C---GUG-UU--U-UAGG-----U--
Cgrandiflora	GGUUGUU-CAUAAC-----U-A--
Ppersica	AGU-G---CAA-CCACU-CA-----AACUUA--
Csinensis	-CU-U---CAG--C-UU-CA-----
Lusitatissimum	--U-GUU-CUU-U--C-CA-----
Cclementina	-CU-U---CAG--C-UU-CA-----
Gmax	-CC-U---CUG-UC-UU-AAUU-----UGU--
Vvinifera	CCU-UUU-CUC-U-----CA-----
Rcommunis	-GC-----CCUUUCUGCUCA--
Spurpurea	-AU-G---CAG-AC--U-GAUC-----UGGUUA--
Bstricta	GGUUGUU-CUGAAC-----U-A--
Csativus	GCU-A---CU--U--U-----A--
Acoerulea	AGAUGUG-CAUAUA-----U-A--
Mesculenta	-GU-UUCCA--U--CACAGGUCUCACUGCUC--

Mguttatus	-----AAUGAC-----U-A--
Esalsugineum	GGUUGUU-CUU--C-----U-A--
Cpapaya	ACAUUAUA-UAUAUA-----U-A--
Athaliana	CGUUGUU-CUUGAC-----U-A--
Crubella	GGUUGUU-CAUAAC-----U-A--
Tcacao	--U-GUA-GUU-G-----CAGA--UA--
Ptrichocarpa	-GU-G--GGG-AC--U-GAUG-----UGCACAU
Pvulgaris	-CU-A--AUG-UC-UU-CUU-----UGU--
Graimondii	-----A-UA-U-AU-----GUUUA-
Fvesca	--U-G--CAG-U-----CA-----

cons



Alyrata	-----G-----C--UCUUC-
Mdomestica	-----A-GG-----U-AA--UA--UCCGCAACCA
Mtruncatula	-----UA-----UAUUAUGAUU--AUG--AAAG-
BrapaFPsc	-----C--UCAUAU
Egrandis	-----A-AGG--U--GUCUGC
Cgrandiflora	-----GG-----A-CU--AGC--UCAAU-
Ppersica	-----A-UC-----UCCCUAG-U
Csinensis	-----UG-----UCA-AAA--C--CUAUGU
Lusitatissimum	-----UG--U--U--CCU--C--U-GGUU
Cclementina	-----UG-----UCA-AAA--C--CUAUGU
Gmax	-----UA-AUU--UCC--CACGU
Vvinifera	-----UU--U--UCUCUCUCCCUUC--
Rcommunis	-----UG-----A--C--UUAC--
Spurpurea	-----AU-----UAUAU
Bstricta	-----G-----C--UCUUC-
Csativus	-----A-UU-----UUC-AUAA--
Acoerulea	-----UG-----A-CU--U-A--UAACU-
Mesculenta	-----C--UUGU--
Mguttatus	-----CA-----A-AUUAAAAC--ACUAC-
Esalsugineum	-----C--UCUUAU
Cpapaya	-----U--A-UU--C--CGAAG-
Athaliana	-----G-----C--UCUUCG
Crubella	-----GG-----A-CU--AGC--UCAAU-
Tcacao	-----A-UA--U-A-CAU--U-A-A--U
Ptrichocarpa	UAUUCACUG--U--CA-CUA--UUCACUAAAG
Pvulgaris	-----UA-AUU--UUC--CACGU
Graimondii	-----UCUUUUA-CA-GUC--C-UCUCU-U
Fvesca	-----C-UG-----AAA--C--UUGUUU

cons



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Csativus	---	AC	---	CC	---	AU	---	U	UG	---	G	---
Acoerulea	---	UG	---	---	---	AC	---	U	CAC	---	UG	---
Mesculenta	---	UU	---	CC	---	CUC	AA	---	G	CAG	UU	---
Mguttatus	---	UACA	---	UU	---	UU	UC	G	U	UAU	AU	---
Esalsugineum	---	---	---	UG	---	UU	ACUA	G	C	UU	AU	---
Cpapaya	---	UG	---	AUU	AGGU	ACCGGU	---	---	CAGUAU	---	---	---
Athaliana	---	UAU	AUGUGUG	---	UU	AA	A	U	CAU	UU	---	---
Crubella	---	UG	---	CG	---	AU	AA	---	U	CAU	AU	---
Tcacao	UCA	UC	---	---	---	AU	---	---	---	---	---	---
Ptrichocarpa	-A	UU	---	U	---	G	AU	---	U	AA	AG	---
Pvulgaris	---	UU	---	CC	---	AA	AC	---	U	UAC	AU	---
Graimondii	---	AU	---	CA	---	UC	A	---	---	---	---	---
Fvesca	U	---	---	---	---	AU	---	U	AG	---	G	---

cons	
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Alyrata	--	GAG	---	---	---	UU	C	---	G	---	ACGGUU	---
Mdomestica	---	AU	---	---	AU	U	---	C	---	UA	---	---
Mtruncatula	-A	---	UGA	AC	---	AA	U	A	---	---	UA	---
BrapaFPsc	---	AAG	---	---	---	AA	C	---	---	AUUUUU	---	---
Egrandis	---	AU	---	---	AA	G	---	CG	---	UU	---	---
Cgrandiflora	---	GAG	---	---	---	UU	C	---	G	---	ACGGUU	---
Ppersica	GCC	---	AA	---	---	AUAU	---	C	---	UA	---	---
Csinensis	---	---	---	---	AU	UUA	G	---	---	UA	---	---
Lusitatissimum	---	---	---	---	GU	U	---	A	---	GG	---	---
Cclementina	---	---	---	---	AU	UUA	G	---	---	UA	---	---
Gmax	-G	---	AUG	---	AC	U	C	---	---	UU	---	---
Vvinifera	---	---	---	---	GU	U	CUG	---	---	UA	---	---
Rcommunis	--	G	---	CAG	GA	---	---	UUAAA	UU	---	---	---
Spurpurea	---	AU	---	---	AU	U	---	G	---	CA	---	---
Bstricta	---	GAG	---	---	---	UU	C	---	G	---	ACGGUU	---
Csativus	-GU	---	AA	---	CG	AU	U	A	---	---	UG	---
Acoerulea	-GGA	ACU	---	---	---	AUUU	C	---	C	---	AA	---
Mesculenta	-G	---	AUGGAGUGUUUU	---	---	---	---	CUUU	UACUA	---	---	---
Mguttatus	---	AAA	---	---	---	UU	C	---	---	GCUUACAGAUCCA	---	---
Esalsugineum	---	GGA	---	---	---	UU	U	---	G	---	AUGGUU	A
Cpapaya	---	UUU	---	---	---	UU	U	---	A	---	AAAAUU	---
Athaliana	---	GUG	---	---	---	UU	C	---	G	---	ACGGUU	---
Crubella	---	GAG	---	---	---	UU	C	---	G	---	ACGGUU	---
Tcacao	---	---	---	---	AU	U	---	C	---	UA	---	---
Ptrichocarpa	---	AU	---	---	AU	U	---	G	---	CA	---	---
Pvulgaris	-C	---	AUG	---	A	---	---	---	---	UU	---	---
Graimondii	---	---	---	---	AU	U	C	---	---	UU	---	---
Fvesca	---	---	---	---	GU	A	---	A	---	AA	---	---

cons



Alyrata	--GA-UU-G-AAU-UUUUA-AGUUCUCA----
Mdomestica	---C-----U-----CUUUCUU--A
Mtruncatula	---A-----U-----U-----UC-U
BrapaFPsc	--GG-UUAGCAAA-----UUaucg--UU-U
Egrandis	---C-----GUUGUGGU-G
Cgrandiflora	--GA-UU-G-AAAU-UUUA-UAUUCUC-----
Ppersica	---C-----A-----UAAGCU--A
Csinensis	---C-----U-----UG-----UG-U
Lusitatissimum	---G-----U-----G-----A--
Cclementina	---C-----U-----UG-----UG-U
Gmax	---C-----U-----UG-----UUGU
Vvinifera	---U-----U-----GUC--UUC-U
Rcommunis	---C-----C-----CG-----U--U
Spurpurea	---C-----G-----GAACCUUC-U
Bstricta	--GA-UU-G-AAAAUUUUA-AAUUCUCA--UA-U
Csativus	---UA-----U-----UUUU--UU-U
Acoerulea	-----AAUUCAUC-----UG-U
Mesculenta	---A-----G-----UA-----UA-U
Mguttatus	ACGA-UUU-UUGU-UUCA-UGUUCUU-----
Esalsugineum	--GA-U--AA-----UUCUCG-----UA-U
Cpapaya	--UACUU-G-U--GUU-----AUUU--UU-
Athaliana	--GA-UU-A-AAU-CUUUAUAGUUCUCA--UA-U
Crubella	--GA-UU-G-AAAA-UUUA-U-----
Tcacao	---C-----U-----CUC--UC-U
Ptrichocarpa	---C-----U-----GAACCUUC-U
Pvulgaris	---C-----U-----UG-----UUGU
Graimondii	---C-----U-----U-----UU-U
Fvesca	---U-----U-----AAC--UUA-U

cons



Alyrata	-----U
Mdomestica	--U-GCC--GU-----A-----A--
Mtruncatula	--U--A-----CAUUUAU-----U--G
BrapaFPsc	--A-UCGU-AUGC-----U
Egrandis	--U-GC--AG-----UGACG-A-UA-AU--
Cgrandiflora	-----A
Ppersica	--U--C--AA-----G-A-GA-CU--
Csinensis	--U-UCC-----U--UU-----U
Lusitatissimum	-----GA-AA-----U-U-GC-ACCAUGCA
Cclementina	--U-UCC-----U--UU-----U
Gmax	--U-GGA-AA-CAGUGUGA-A-GC-A-----U

cons