

A.chinensis
 A.cordata
 A.graveolens
 D.carota
 M.domestica ATTAGCCTTGTAAGCTGTAATGGCAGCGCCGCTGCCCATCGAAATCGAACCATCATCAAC
 P.hybrida
 V.mungo

A.chinensis
 A.cordata
 A.graveolens
 D.carota
 M.domestica TAATGGTCAACCCCATCTCGCCGACGCCTACAACCGTCACGTGGCTGTCTGTAGCCTTCCC
 P.hybrida
 V.mungo

A.chinensis
 A.cordata
 A.graveolens
 D.carota
 M.domestica TTTCACTAGCCATGCAAGCGCCTTGCTTGAGACCGTGCGCCGCCTAGCCACCGCCCTTCC
 P.hybrida
 V.mungo

A.chinensis
 A.cordata
 A.graveolens
 D.carota
 M.domestica AAACACTCTCTTCTCGTCTTTCAGCACTTCAAATCCAACAGCTCTCTCTTTTCCAACAA
 P.hybrida
 V.mungo AAT

A.chinensis
 A.cordata ATTATATCCCTTATTTATTCATAAGTTAATTCAACTGTGCTAGTTACCTATCTCTCTTC
 A.graveolens
 D.carota
 M.domestica CAGCATTGATAACATGCCGCGTAACATAAGGGTGTACGATGTGGCTGACGGGGTGCCGGA
 P.hybrida
 V.mungo TCGGCACGAGTATTGGTGGAATCAAGAATGTATATATTTAAGTGTGAACAGAGCTACTAA

A.chinensis
 A.cordata TGAATTCGAGAATTAATCAGCAGGTGGAATAATTAATTATTAATGTTACCAATCTCATC
 A.graveolens
 D.carota
 M.domestica GGGGTACGTTTTCTGGGCAAGCCGAGGAGACATAGAGCTCTTCAATGAAATGCGCACC
 P.hybrida
 V.mungo ACTCCATTGCTCTCATTTTTCTCAGATCAAGGCACAGCAAAATCATGGGAATTCAGAGA

A.chinensis TGAATGC CACGTGGCGGTGCTCGCATTCCTCCGTTTCCACGCAC CCGGC C C C T
 A.cordata GGAGCCA CATGTGGGGTCTTIGCCTTCCCATTTGCTACACAC GC CGGTCTCCCT
 A.graveolens GGAACCC CATGTAGCGGTCTTIGTTTTTCCGTTTGGCTACGCAC GTGGTCTCCT
 D.carota GGAACCC CATGTAGCGGTCTTIGTTTTTCCATTTGGCTACGCAC GCTGGTCTGCT
 M.domestica GGA . AA CATCCGGAAGAGCTTAGACGCTTCCGTTGGCGGA CATCGGGAAGCAGATCAGCTT
 P.hybrida CAATTACCATGTTGCTGTTCTAGCATTCCCTTTTGCAACACAT GCTGGCTTTT
 V.mungo GAA GAAA CATGTTGCAGTGT TTTCTTCCCTTTGGAGGCAC CTACTCCTCT

80 90 100 110 120
A.chinensis CC T C A A G C C T G T C C A A C G G C T G G C G G T . C G A G G C C C T G A C G T G A
A.cordata CC T T G G C C C T A G T C C G T A G G C T A G C C G C . C G C T G C C C T A A C G T C A
A.graveolens CT T T G G C C C T C G T A C A A C G G T T G G C C A G . G G C T G C T C C A A A T G T G A
D.carota CT T T G G C C C T C G T G C A G C G T C T G C T A A . G G C T G C A C C G A A T G T C A
M.domestica GC T T G A T C A C C G A C G C C T T C C T T G G T T T G G A G T C C A C T T G G C T G A C G A G T T G G G A G T G A
P.hybrida AC T T G G A C T G T A C A A A G G C T A G C A A A . T G C A T T A C C T A A C G T G A
V.mungo GT T A A A G C T G G T G C T G A A G C T G A C C A A . T G C T G C T C C A A C T G C

130 140 150 160 170
A.chinensis TC T T C . T C T T C A T T A G C A C G G C C A A G T C G A A G A G T C C T T . . . G T T C A G T G C C A A A .
A.cordata AT T T C . T C T T C T A T A G C A C C G C T G C A T C C A A G C G T T C A T T . . . A T T T C A T A T C C A A A T
A.graveolens AG T T C . A C A T T T T A A C A C A G C C A A G T C T A A G C A C A C A T T . . . G T T T C A G A T T A T A T C A
D.carota AG T T C . A C A T T T T T A A C A C G C C A A G T C G A A C C A T T C G T C . . . G T T T C A A A T T C A T C A
M.domestica CT T G G G T C A C T T T C T G G A T C T C C G G A C T C A A T C C C T C C C G . T T C A T G T G C A T A C T G A T
P.hybrida CA T T T . A C A T T C T T T A A C A C G T C C A A A T C A A A T T C T T C A T T . . . A T T C A C T A C T C C T C A .
V.mungo AA T T C . T C A T T C A T A G G C A C G A A C A C T C A A G A A A T C T C T T C T G A T C T C A A G C C C A .

180 190 200 210 220 230
A.chinensis C C C T G A G A A C A T A A A G C C T T A C C C C G T T T G G A C G G C G T T C C A G A G G G A T A C G T G
A.cordata T C T C C T T A T T C T A A T G T A T A C C C T A C G A T G T C T C C G A T G G C G T A C A G A G G G C T A C G T G
A.graveolens A C T G T T G C T A G T A A T A T A C C A T T T G A T G T T T A T G A T G G C G T G G A G C C C G G A T A T G T G
D.carota A G C A T T G C T A G C A A T G T A T A C C T T A T G A T G T C T A T G A T G G C G T G G A G A G G G G A T A T G T G
M.domestica C T C A T C C C G A C A C T A T T G G A A C T C A A G G T G C G T A C G T T A T A C T T A C A C T T A C T T A C C T
P.hybrida T G A C A A C A A C A T T A A A C C G T T T A A T A T C C C G A T G G C G T C C C G G A G G G T A C G T G
V.mungo . . . C A T C C C A G A C A C C A T C A A G T T T A C A G T A T A A G C G A T A T A A G C G A T G G A G T C C A G A G G T A . T G

240 250 260 270 280
A.chinensis T T C G C G G . . G G A A G C C C . A G G A A G A C A T T A A C T T G T T C C T T A A G G T G G C G G C A A G G G C
A.cordata T T T C C G . . G G A A G C C A C . A A G A G A T A T T A A C T T G T T C T T G A C C G T T G C C C C A G A T G A
A.graveolens T T C T C T G . . G G A A A C C T C . A A G A G A T A T T A G C T T G T T C T T G G C T G T G C G A G A T A G
D.carota T T C T C G G . . G G A A G C C A C . A A G A G A T A T C A A C T T G T T C C T G G C T G T G C A C G G A T A G
M.domestica G T C T T T A A . A G T T G A A G C A T T G A G A A T C C T T G T T C G T T T G G T A G T A C T T A C G A A A A G C
P.hybrida G T C G G A A A A G G A G G T A T T G A A G C C T T A T A G G T T G T T C T T T A A G T C T G C T A A A A G A A T
V.mungo T T C C A G G T . G G C A T C A G T C G A A A G A G T C A A C C T T T T C T T C A G C T T C T C T C A G A A C

290 300 310 320 330 340
A.chinensis T T T A A G T T G G C G A T G C A G G C G T T G A A G T A G A G A C A G G C G G A G A G A A G C T G
A.cordata T T T A A G A G A G G C T T G G A A A A A G C C C G G T G A C T C C G G T A G G A A G A T C A C C T G
A.graveolens T T C C G G C G A G G T G T G G A A A A G C A G C T G C G G A T T C T G G T A G C A A G A T C A C T T G
D.carota T T T C G A C G A G G C T T G G A A A A G C A G T T G T G A T T C T G G T A G C A G A T C A G T T G
M.domestica A T T T T T C T T T C A A G T G T T T A T T G G A A A A G C A C T T T C C A G T C A C A A A T A G G T G C T C A C T T
P.hybrida A T T C A A A A T G C T A T G G C A G C T G C T G G A G A A T C G G G A A A G A A G A T T A C T T G
V.mungo T G C A A A A G G A A T A G A C A T G C A G T G C A G T G C T C A C A C A A A G A G A G A T A C T T G

350 360 370 380 390 400
A.chinensis G G T G A T G G G G A C G C C T T T T G T G G T T T T C T A G C G A C A T G G C G G A G G A G A G G G C A T C C C
A.cordata T T T G G T G G G G A C G C T T T T T A T G G T T T T C C G G C G A T T T G G C C G A A C A A A T T C G T G T G C C
A.graveolens T T T G G T T G G G A C G C T T T T T G T G G T T T C T T G T G A T T G G C A C A A G A G A T T G G T T G C C
D.carota T T T A G T T G C A G A T G C A T T T T T G T G G T T T C T T G T G A T T T G C A C A A G A G A T T G G T T G C C
M.domestica T T C C T T T T A A A T A T T C T C T C A T T T A T C A A C A T . A C A T A A T G G T T A T T T A T A C
P.hybrida T G T T A T G C A G A T G C A T T A T G T G G T T T T C T G G T G A G A T G C T G A G A A T T G A G C C T T G G
V.mungo T G T C A T C T G A T G C T T T G T C G C A C C T T C T C T C A C T G T G G C T A G C C T T G A C C T T C C

410 420 430 440 450 460
A.chinensis G T G G G T G C A A T T T G G A T G T C A G G G G C G T G C T C T T G T C G G T A C A T T T G T A C A C T G A C C T
A.cordata A T G G G T C C A C T T T T G G A C T C C G G A G C T T G C T G C T T T C G A T C C A C G T T T A C A C C G A T C T
A.graveolens A T G G G T G C A C T T T T G G A C T C C G G G C T T G C T C T T T C A A C T C A C A T T T A C T G A T C T
D.carota A T G G G T G C A C T T T T G G A C T C C G G G C T T G C T C T T T C A A C T C A C A T T T A C T G A T C T
M.domestica T T G G A T T T C A A G T T T T A A G T A T C A A T G A T T C A A T T T T A G G T T T T A G T A T C A . . A A T T T
P.hybrida T T G G A T C C C T T T T T G G A C T T C T G C T G C T G G A T C A C T C T C T G T T C A T G T T T A C A C T G A C T T
V.mungo A T G G G T T C G G T T T T G G C C T C C T T T G T C A T G C A C T C T C T G C G C A T T T T T A C A C T G A A T T

	470	480	490	500	510	520
A. chinensis	TATTAAGGAAACAGT	TAGGATTTAGT	GAATTCT	GGACGCCAAAC	GAAC	TCTTGAAATT
A. cordata	TATCAAGCAAACTGT	TGGACTTGGT	GGTATTGAA	GGACGTATG	GATGAGATTC	TGACGTT
A. graveolens	TATTCGCCAAACTGT	TGGACTAGAA	GGTGTAGAA	GGACGTATG	GATGAAAAGC	TAAACTTT
D. carota	TATTAGGCCAAACTGT	TGGATTTGAT	GAATTGAA	GGACGTATG	GATGAGAAAGC	TGAACTTT
M. domestica	TGTGCATTTCAGGCA	TACAGGTCGT	GAAACGAC	CTCATCGTC	GACAAAATG	TAA...
P. hybrida	CATTAGAGAAATGT	TGAGGCTCAA	GAATTGCT	GGACGTGAA	GATGAAATTC	TAAACTTT
V. mungo	GATACGCCAAAC	GTGTAACTCTGC	AGCA...	.....	GGAACACC	CCCTTGGAATT

	530	540	550	560	570
A. chinensis	CATTCACAGGATTTTC	CGAGCTGGCC	TGGTGACTTGC	CAGTGGAGTCT	TGC.....T
A. cordata	CATTCACCGATTTTTC	TGAATTAGCGGC	TGGTGACTTACC	CGGTGGAGTCC	TTT.....T
A. graveolens	CATTCCTGGATTTTTC	TGAACATAAGAT	TAGGTGACTTGC	TGGTGGAGTGG	TGT.....T
D. carota	CATTCCTGGATTTTTC	TAAATTAAGGC	TAGGTGACTTGC	TGGTGGAGTGG	TGT.....T
M. domestica	CATTCACAGGCTCTCTC	CAATGTAGCAA	TCAAAGACTT	AGCGAAGGAGT	CACTT.....T
P. hybrida	CATTCACAGGATTTTTC	CGAATTAGCGGC	TAGGTAGT	TGGCTAGTGGAGT	TGTCT.....C
V. mungo	TGTTCCCTGGATTGTC	TAGAATGGCAGT	TGAAGACTTGC	AGAAAGATCT	GATTCCAAGGTGC

	580	590	600	610	620	630
A. chinensis	TGGAACCTTGAAATCC	CAATTC	CAATTC	CAATTC	CAATTC	CAATTC
A. cordata	CGGTAACCTTAGAATC	CAATTC	CAATTC	CAATTC	CAATTC	CAATTC
A. graveolens	TGGGAACCTTAGAGT	TCCTTTC	TCCTTTC	TCCTTTC	TCCTTTC	TCCTTTC
D. carota	TGGAACCTTAGAGT	TCCTTTC	TCCTTTC	TCCTTTC	TCCTTTC	TCCTTTC
M. domestica	CGGTAACCTTGGAATC	CAATTC	CAATTC	CAATTC	CAATTC	CAATTC
P. hybrida	TGGAGACTTGGAATC	CAATTC	CAATTC	CAATTC	CAATTC	CAATTC
V. mungo	GGTGAAGAGGAGAC	CATTGTT	TTCGAAAGAC	ACTAGCA	TCCGTGGG	AGTGTGTACCTCA

	640	650	660	670	680	690
A. chinensis	AGCAACCACGTGTTCT	ATAA	AACTCT	TCGAA	GAAC	TGACCC
A. cordata	GGCAGCTGCCGTTCC	ATAA	AACTCT	TCGAA	GAAC	TGACCC
A. graveolens	GGCATGTGTTCTGG	CAAT	AACTCT	TCGAA	GAAC	TGACCC
D. carota	AGCAGATGTTCTGG	GATG	AACTCT	TCGAA	GAAC	TGACCC
M. domestica	TGCCACCAGGATTTTC	ATAA	AACTCT	TCGAA	GAAC	TGACCC
P. hybrida	AGCCACTGCCTTGCC	AGTAA	AACTCT	TCGAA	GAAC	TGACCC
V. mungo	AGCTGAGGCAGTGG	TGTG	AAATTT	TTTGA	GAACTA	GATCCACCCTTGTGGTTAA

	700	710	720	730	740
A. chinensis	TCTCAACTC	CAACTT	TGGG	AGTTC	CTCAACAT
A. cordata	TATAAAATCAAA	AGTTCAA	AAAATTC	CTCAACAT	CGGTCCCTT
A. graveolens	TCTTAGTTC	AAAGTTCAA	CAAGATT	CTTAAT	CTAGGAC
D. carota	TCTTAGTTC	AAAGTTCAA	CAAGATT	CTTAAT	CTAGGAC
M. domestica	TCTAAAGTCCAA	AGTTCAA	AACTCT	CTCAAC	CTAGGAC
P. hybrida	TCTCAAGTCCAA	AGTTCAA	AACTCT	CTCAAC	CTAGGAC
V. mungo	CATGAAGTCAAA	AGTTAA	GATTTA	CTTAT	GTGGT

	750	760	770	780	790	800
A. chinensis	ACATCCATATC	...AAA	...TTCC	GACGAGT	ATGGA	TGCATCC
A. cordata	ACCACCATCATC	...AAA	...CTCC	GACGAA	CACGGC	TGCATCC
A. graveolens	ACCAGCATTACA	...ATA	...TTCC	GAGATGA	ATATGG	TGCATCC
D. carota	ACCAGCATTACA	...ATA	...CTCC	GAGATGA	ATATGG	TGCATCC
M. domestica	GCCACC	GCTGCC	...G	CATCAGA	..T	GCTTGGCTTGT
P. hybrida	ACCACC	CTCAGC	...AAA	CATTAC	CAGATG	AATATGG
V. mungo	GCCACC	CTTGC	CTCCATC	AGACAG	GACGAA	ACTGGTGCCTTGT

	810	820	830	840	850	860
A. chinensis	GAGATCCGCTTC	C...GTGGC	ATAAT	TGGCTT	TGGATC	AGTACG
A. cordata	AAACCCTAAATCG	...GTAGC	GATAT	TGCCCT	TGGAAC	CGTAGC
A. graveolens	AAACCCTCAGTTC	...GTGGC	ATAAT	TGGCTT	TGGAAC	CGTAGC
D. carota	TAAATCCTAAGTCT	...GTGGC	ATAAT	TGGCTT	TGGAAC	CGTAGC
M. domestica	ACAGGCTCCATCT	CCTC	GTGGT	TACAT	AAAGT	TGGGAC
P. hybrida	AGAACAGGC	TC...GTGGC	TACAT	AAAGT	TGGGAC	AGTGGC
V. mungo	GAAAGTGGATCA	...GTGGT	GATAT	TAGT	TTGGG	ACGGTGTG

	870	880	890	900	910	920
A. chinensis	TGAGGTCGTGGCAATAGCTGAAGCACTAGAAGCTAGCAGTACTCCAATTCTCTGGTCTCT					
A. cordata	TGAGCTAGTTCATTAAGCTGAGGCGCTAGAAGAAAGTGGTACTCCAATTCTCTGGTCTCT					
A. graveolens	TGAGATAGCTGAATTAGCTGGAGCCCTGAGTCAAGTGGAACTCCAATTCTCTGGTCTCT					
D. carota	TGAGATAGTGAATGGCTGAAGCCTCTGGAATCAAGTGGTACTCCAATTCTCTGGTCTCT					
M. domestica	GGAGCAGATGGCAATAGCGGAGGCCCTGGAAGCCACCGAGCACTCTCTCTGGTCTCT					
P. hybrida	TGAGCTAAAAGCTATGGCTGAAGCACTTGAAGAAAGTAAACTCTCTCTCTGGTCTCT					
V. mungo	TGAGATTGTGCAAGTGGCGGAAGCGCTTGGAAGCAAGTGGTTTCCCTTTCTGGTCTCT					

	930	940	950	960	970
A. chinensis	TAGAGCACTTCGAAACAGTACTTACAGAAAGGATTCTTGAAGAGGAAAGCGACTA.				
A. cordata	AAAGGACAAATTTCAAATAATTAACCAAAAGGGTTTTTAGAAAGGAAATAGTAAAGT.				
A. graveolens	GAAAGATCAGTTGAAACAAACATTTGCCACCAGGATTTTTGGAAAGGACATACAGAAACT.				
D. carota	GAAAGATCAGTCCAAGAAACATTTACAGAAAGGGTTTTTAGAAAGGACATAGAAAGC.				
M. domestica	CAAGGACAGCTGCAAGACACCGTCTGAAAGAGTTCTTACAAAAACATTTGCAAAAGCT.				
P. hybrida	TAAAGA C C T T T C A A A T C A T T T T C C A G A A G G T T T T T G G A A A G A C .				
V. mungo	GAAAGAGCATCTGAAAGGGTGTCTCTGCAAAATGGTTTTCTTGAAGAGGACGAGTAAAGT.				

	980	990	1000	1010	1020	1030
A. chinensis	...GGAAAAATTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
A. cordata	...GGAAAAATTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
A. graveolens	...GGAAAAATTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
D. carota	...GGAAAAATTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
M. domestica	GAAAGGATGGTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
P. hybrida	...GGTAAATTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					
V. mungo	...GGTAAAGTTGTGCGCATGGGCACTTCAAGTATCAAGTTTGGCCCATAGTTCAATTTGG					

	1040	1050	1060	1070	1080	1090
A. chinensis	GGTTTTCATAACTCAATGGCGGATGGAACTCGGTGTAGAGACCATTGGCGCGGTCTGGCC					
A. cordata	AGTTGTIATAACGCATGGCGGATGGAACTCGGTGTAGAGACCATTGGCGCGGTCTGGCC					
A. graveolens	AATTGTIATAACGCATGGGGGATGGAACTCGGTGTAGAGACCATTGGCGCGGTCTGGCC					
D. carota	AATTGTIATAACGCATGGGGGATGGAACTCGGTGTAGAGACCATTGGCGCGGTCTGGCC					
M. domestica	AGCCTTCCGTGTCGCAATGGCGGCTGGAACTCGATAAATGGAGACTATAGCAGGACCGGTGCC					
P. hybrida	TGTTTATAAATCAATGTGGATGGAACTCTGTTTGGAGAGTATAGCTGCTGGTCTGGCC					
V. mungo	AGTGTITGTGACTCACTGCGGTGTAACTCGGTGTITAGAGCATGTCGAATGGAATGGCC					

	1100	1110	1120	1130	1140	1150
A. chinensis	AAATGATCGGTGGCCATCTTTGGGACCACTTAAACAATGGATGGTGAATAATGT					
A. cordata	AGTGTATGTAGGCCCTTCTTCCGAGATCATCACATAAATACGTGGATGGTGAATAATGT					
A. graveolens	ACTGATCTGCAGACCTTCTTTGGAGACCATCAATAAACAATGGATGGTGAATAATGT					
D. carota	CATCATCTGCAGACCTTCTTTGGAGATCATGCAATAAACAATGGATGGTGAATAATGT					
M. domestica	ACTGATTTGTAGGCCATATTTTGGAGACAGAGGCTTAAATGCAAGGATGGTGAATAATGT					
P. hybrida	TGTGATTTGTAGGCCATTTTGGAGATCAATCAATGAAATGCTGGATGGTGAATAATGT					
V. mungo	TAATGATATGAGGCCCTTCTTTGGGACCACTGGGTAACTGGAGGATGGTGAATAATGT					

	1160	1170	1180	1190	1200	1210
A. chinensis	GTTGGAAATTTGGTGTGAGAGTTGAAGGTGGGCTGTTTACAAAGAGGACCTACAAATGCGTGC					
A. cordata	ATGGAAATTTGGTGTGAGAAATTTGAAGGTGGGCTTGTACAAAGAACTGCTACTATGAATGC					
A. graveolens	ATGGAAATTTGGTGTGCAAAATTTAGTGGTGGTCTTTTACCAAGAAAGGAACTGTACACGC					
D. carota	ATGGAAATTTGGTGTGCAAAATTTAGTGGTGGTCTTTTACCAAAAGGAACTGTCAGATGC					
M. domestica	GTTTGAATCGGGGTAACCGTGGAGGATGGAGTTTTACCAAGGAGGGGCTGGTAAAAG					
P. hybrida	ATGGAAATTTGGAGTGAATAATTTGAAGGAGGAGTTTTACTAAAGATGCAACAAATGCTTGC					
V. mungo	TGGGAGATTTGGTGTGAGAGTTGAAGGTGGGCTGTTTACCAAGATGGCTGCTGAATGC					

	1220	1230	1240	1250	1260
A. chinensis	ACTCGAAGTGGT...TTTATCTCATGAAGAAGGGAA...GAAATTTGAAGGACCAAAATGG				
A. cordata	GCTTGAACAAGTACTTTTGTCTACAAAGAAAGGGAA...GAAATTTGAAGGACCAAAATC				
A. graveolens	CCTTGAACAAGT...TTTGTCTCAAGAAAGGGAA...AGAACTCAGAGACCAAAATC				
D. carota	CCTTGAACAAGT...TTTGTCTCAAGAAAGGGAA...AGAACTCAGAGACCAAAATC				
M. domestica	CTTGGAGTGGT...TTTGTCTCAAGAAAGGGAA...GAAATTTAGAGACCAAAATATAA				
P. hybrida	ACTTGAAGTGGT...TTTATCTCAAAAGGAAAGGAA...TACAGAAATGAAACAAATGG				
V. mungo	CTTGAAGTGGT...TTTGTCTGAGGAAAGAGGTTAA...TCTCATGAAAGAAATGCTGT				

	1270	1280	1290	1300	1310	1320
<i>A. chinensis</i>	ACACTTAAAGGAGCTTCTCTAAAGGCTGTGGACCAAAGGAGCTCATCTCAAAACTT					
<i>A. cordata</i>	AGTGTTAAGGAGCTTCTCTAAAGGCTGTGGACCTAATGGAGCTCATCTCAAAACTT					
<i>A. graveolens</i>	ATTGCTGAAGGATCTCGCATTCAGGCTGTGGACCTAATGGTAGCTCATCTCAAAACTT					
<i>D. carota</i>	ATTACTCAAGGATCTTGCATTCAGGCAAGTGGACCTAATGGTAGCTCATCTCAAAACTT					
<i>M. domestica</i>	GAGGGTCAAACAACCTGGCAGTAGAGGCGGTGGACCACAAAGGAGCTCCACTCGGAACCTT					
<i>P. hybrida</i>	GATGTATAAGGAGCTTCTCTAAAGGCTGTGGACCAAAGTGGAGCTCTGCTGAAACTT					
<i>V. mungo</i>	CAAAGTGAAGAGACAGTCTCTAAAGTGCAGCTGGAGCACAAAGGTAAGCAGCACAAGATTT					

	1330	1340	1350	1360		
<i>A. chinensis</i>	CAA	TAATT	TGCTT	GAGGT	AATAAC	CAGG.CCACAACCTTTGA.....
<i>A. cordata</i>	TAA	ACGCC	TACTA	GAGT	GATTAC	AAAC.TTAATTTTGTGGCATATGCACCTAGCTAGCT
<i>A. graveolens</i>	TGAGGAGC	TACTGA	AAGT	GATTA	CAAC	.GTATGTACCAAATTAG.....
<i>D. carota</i>	TACAGAGC	TAGTAA	AAGT	GAT	TGCTGT	.CTGA.....
<i>M. domestica</i>	CAAA	TATCGC	TGTGG	ACAT	CGTAT	CAGGATCCAATTATCAAGTA..TAGTACGGGGACCAT
<i>P. hybrida</i>	CAA	GAAAT	TGGTT	GATAT	TATCA	CCTC.TTGCAATTAATAATTTTACTTGAAGAGATT
<i>V. mungo</i>	CAA	CACCTT	TGGT	GACT	TGGTT	CTAGATCTTAATTTATGGCCCTTTTGTCTAGTGATAT

<i>A. chinensis</i>	.....
<i>A. cordata</i>	TGTTGATGAATGAAGTTACCTTTTGTATTAAAAA.....
<i>A. graveolens</i>	.....
<i>D. carota</i>	.....
<i>M. domestica</i>	AAATATGTAGCACT.....
<i>P. hybrida</i>	AATGATTTACTATCTGTTTGAATAATAAATTCACCTTTAATTT.....
<i>V. mungo</i>	TGATATATATCGCTGCCGTGAGAAATGCAGTTTATGACCATGCAAGTGATGTAATTTTT

<i>A. chinensis</i>	.....
<i>A. cordata</i>	.....
<i>A. graveolens</i>	.....
<i>D. carota</i>	.....
<i>M. domestica</i>	.....
<i>P. hybrida</i>	.....
<i>V. mungo</i>	TTACATGTTTTCTCTTGTGGAGGTGAATAATAAGATCATTTGTCTCATCTTTCAITGGTG

<i>A. chinensis</i>	.....
<i>A. cordata</i>	.....
<i>A. graveolens</i>	.....
<i>D. carota</i>	.....
<i>M. domestica</i>	.....
<i>P. hybrida</i>	.....
<i>V. mungo</i>	GGAGTAGTTGACCAGAAATAAAAAGTGGCAAAAGTTGGAGACACC

Figure S1 Alignment of deduced amino acid sequences of galactosyltransferases from *Actinidia chinensis* (Accession No. GU079683), *Aralia cordata* (Accession No. AB103471), *Apium graveolens* (Accession No. MG725374), *Daucus carota* (Accession No. KP319022), *Malus domestica* (Accession No. NC041789), *Petunia hybrida* (Accession No. AF165148) and *Vigna mungo* (Accession No. AB009370), respectively.