

**DMR6**

B.distachyon_Bradi5g19240	-----MANQLLST---VSCHDTLPEGYARPESDRPRLAE	31
O.sativa_Os04g49194	-----MATTQLLST---VEHRETLPPEGYARPESDRPRLAE	32
O.sativa_Os10g39140	-----MAAEAEQQHQLLST---AVHDTMPGKYVRPESQRPRLDL	36
S.bicolor_Sb01g030560	-----MAEQLLST---AVHDTLPGSYVRPESQRPRLAE	30
ZmFNSI-1/ZmDMR6	-----MAEHLLST---AVHDTLPGSYVRPEPERPRLAE	30
B.distachyon_Bradilg77040	-----MAEQLIST---CAHETLPESYVRDAAERPRLDE	30
O.sativa_Os03g03034	-----MADQLIST---ADHDTLPGNYVRPEAQRPLAD	30
S.italica_Si036512m.g	-----MADQLIST---AVHEELPENYVRPEAQRPLHE	30
S.bicolor_Sb01g049030	-----MAEQLIST---AEHDTLPDSYVRPETQRPLRE	30
Z.mays_GRMZM2G475380	-----MAEHLIST---ADHDLRPDSYVRPETQRPLRE	30
A.coerulea_v1.008143m.g	-----MESSNVLLT---GTRYSNLPENYVRSVSDRPRLSE	32
E.salsugineum_TP2g22820	-----MAAKLIST---GFRHTTLPENYVRPHSDRPRLSE	31
C.rubella_006g21660	-----MAAKLIST---GLRHHTTLPENYVRPISDRPRLSE	31
AtDMR6	-----MAAKLIST---GFRHTTLPENYVRPISDRPRLSE	31
AlDMR6	-----MAATLIST---GLRHHTTLPENYVRPISDRPRLSE	31
C.sativus_Cucsa.273300	-----MSSVMEIQLLCS---GGRHEKLPEKYERPESDRPRLSE	35
SlDMR6	-----METKVISS---GINHSTLPQSYIRPESDRPRLSE	31
M.guttatus_mgvla009622m.g	-----METKV-IS---GVHFSSLPASYIRPESDRPKLSE	30
<b>VvDMR6.1</b>	-----MESKVLST---GIRYLTLPQSYIRPEPERPRLSQ	31
C.papaya_16416436	-----METKVLSS---GVRYENLPENYVRPESERPRLAE	31
<b>VvDMR6.2</b>	-----MDSKVLST---GIPFTTLPENYIRPESERPRLSE	31
R.communis_29866.t000021	-----MDTKVLSS---GIRYSNLPESFIRPESERPRLSE	31
M.truncatula_Medtr3g122530	-----MDTKVLSS---GIHYSKLPESYIRPESDRPCLSQ	31
G.max_Glyma04g227900	-----MDTKVLSS---GVQYSNLPESYIRPESERPRLSE	31
G.max_Glyma06g137000	-----MDIKVLSS---GVQYSNLPESYIRPESERPRLSE	31
G.max_Glyma06g14190	-----MDIKVLSS---GVQYSNLPESYIRPESERPRLSE	31
E.grandis_v1_0.018520m.g	-----MEAKVISG---GTRFTSLPRSYVRPESERPRLSE	31
E.grandis_v1_0.018494m.g	-----MEAKVISG---GTRFTSLPRSYVRPESERPRLFE	31
E.grandis_v1_0.018496m.g	-----MEAKVISG---GTRFTRLPRSYVRPESERPRLSE	31
P.persica_ppa008269m.g	-----METKVLSS---GFKYENLPEGYVRPESERPRLSE	31
C.clementina_0.9_015118m.g	-----MDTKVLSS---GIRYTNLPEGYVRPESERPRLSE	31
P.persica_ppa022381m.g	-----MAAKLLSD---LASGVTCVPSNYVRPVHDPRLDQ	32
P.persica_ppa019415m.g	-----MAAKLLSD---LASGVTCVPSNYVRPVHDPRLDQ	32
C.clementina_0.9_032642m.g	-----MAAATTKLLLSLSD---LASTVKSVPSNYIRPISDRPNLTE	36
C.clementina_0.9_012078m.g	-----MAAATTKLLLSLSD---LASTVKSVPSNYIRPISDRPNLTE	36

**DLO**

B.distachyon_Bradi5g19250	-----MATAIAKPLLSLSD---LVAESGTVPSSHIRPVGDRPDLAD	36
O.sativa_Os04g49210	-----MAPAIAKPLLSLSD---LVAQSGQVPSSHIRPVGDRPDLDN	36
S.italica_Si010491m.g	-----MAPTIAKPLLSLSD---LVAQIQGVPLSHVRPVGDRPDLAN	36

S.bicolor_Sb06g026350	-----MAPAISKPLLSL-LVAQIGKVPSSHIRPVGDRPDLAN	36
Z.mays_GRMZM2G050234	-----MAPAISKPLSLD-LVAQIGKVPSSHIRPVGDRPDLAN	36
G.max_Glyma03g42250	-----MAEKLVLVSD-MASTMKQVPSNFIRPLGDRPNLQG	34
G.max_Glyma16g01990	-----MATTKPLSLD-LASTVDRVPSNFIRPIGDRPNLQQ	34
G.max_Glyma07g05420	-----MAATKPLSLD-LASTIDRVPSNFIRPIGDRPKLHQ	34
<b>VvDLO1</b>	-----MANAKLLSLD-LASSIDCVPSRYVRPVNDRPNLDE	34
R.communis_30076.t000026	-----MAIAKPLSLD-LVSTITSVPSNFIRPLSDRPNFNE	34
AlDLO1	-----MATSATSKLLVSD-FDSSVSHIPSNYVRPILDRPNLSE	37
AtDLO1	-----MATSATSKLLVSD-FASS-VHIPSNYVRPISDRPNLSE	36
AlDLO2	-----MAASATSKLLVSD-IASVVDHVPSNYVRPVSDRPNMSE	37
AtDLO2	-----MAASKLLVSD-IASVVDHVPSNYVRPVSDRPKMSE	34
C.sativus_Cucsa.193360	-----MSASGHTKLLVTD-LAATVQQVPSRYVRPISDRPNSSD	37
C.papaya_evm.TU.sup_37.106	-----MAATKLLSLD-LASNLIKQVPAKYIQPISDRPNLAD	34
E.grandis_v1_0.017927m.g	-----MATAATKLLSLD-RVPGINRVPSNYIRPQADRPNLTE	36
E.grandis_v1_0.017897m.g	-----MATAATKLLSLD-RVPGINRVPSNYIRPEADRPNLTE	36
E.grandis_v1_0.047536m.g	MLTSAAQINTMTSYSALGRRFGENEKTAAKLLSLD-LASGIDRVPDNYIRSEADRPNLTE	59
E.grandis_v1_0.017895m.g	-----MAPAAAKVLLTD-LASGIDRVPDNYIRSEADRPNLTE	36
E.grandis_v1_0.017876m.g	-----MAPAAAKVLLTD-LASGIDRVPDNYIRSEADRPNLTD	36
E.grandis_v1_0.015926m.g	-----MAPAAAKVLLTD-LASGIDRVPDNYIRSEADRPNLTE	36
<b>VvDLO2 (V2D)</b>	-----MVPSTTKLLSLD-MVLGVDHVPSNYVRPPSERPNFKD	36
C.clementina_0.9_014263m.g	-----MSAAATTATKLLSLD-LAPTLTNVPSDYIRPISDRPSLTD	39
P.persica_ppa008100m.g	-----MATATKLLSLD-LMSGVNHVPSNYVRPISDRPNLSD	35
P.persica_ppa008091m.g	-----MATATKLLSLD-LMSGVNHVPSNYVRPISDRPNLSD	35
R.communis_30068.t000102	-----MAS-TKLLSLADL-ASGVHRVPSKYIRPVSDRPNLSD	34
M.esculenta_4.1_029834m.g	-----MAF-SKPLSLADLSSLGVKNVPSSYIRPISDRPNLSD	35

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**DMR6**

B.distachyon_Bradi5g19240	VA--TDSNIPLIDLAS--P-DKLRVIAEIDRACRTYGGFFQVINHGISEELLEKVMAGLE	86
O.sativa_Os04g49194	VA--TDSNIPLIDLAS--P-DKPRVIAEIAQACRTYGGFFQVTNHGIAEELLEKVMVALE	87
O.sativa_Os10g39140	VV--SDARIPVVDLAS--P-DRAAVVSAVGDACRTHGFFQVNVHGI DAALIASVMEVGRE	91
S.bicolor_Sb01g030560	VV--TGARIPVVDLGS--P-DRAAVVAAIGDACRSHGFFQVLNHGVHADLVAAVMAVGRA	85
ZmFNSI-1/ZmDMR6	VV--TGARIPVVDLGS--P-DRGAVVAAVGDACRSHGFFQVNVHGIHAALVAAVMAAGRG	85
B.distachyon_Bradilg77040	VV--PDAHIPVVDLAH--P-DRAAIVSQIGAACRSHGFFQVLNHGLPAELMEAMAVAHE	85
O.sativa_Os03g03034	VL--SDASIPVVDLAN--P-DRAKLVSQVGAACRSHGFFQVLNHGVPVELTSLVLAHAHD	85
S.italica_Si036512m.g	VV--SDAQIPVVDLAD--P-DPAAVVASIGEACTTHGFFQVLNHGVPVELMVAMLAVAYE	85
S.bicolor_Sb01g049030	VV--PDAEIPVVDLAV--P-DRAAVVARVAEACRTHGFFQVNVHGVAEELTAAMLAVAYE	85
Z.mays_GRMZM2G475380	VV--PDAEIPVVDLAD--P-DREAVVARVAEACRTHGFFQVLNHGVPEQLTAAMMSVAYE	85
A.coerulea_v1.008143m.g	VK--DCENVPVIDLSV--A-DESLLAQQIGNACKSHGFFQVINHGVNSELVEKMMESISHE	87
E.salsugineum_TP2g22820	VS--QLEDFFPLIDLSS--T-DRSRLIQQIHQACARFGFFQVINHGVSKERIDEMVSVANE	86
C.rubella_006g21660	VS--QLEDFFPLIDLSS--S-DRSLLVQQTHQACARFGFFQVTNHGVSKQVIDDMVSAHE	86
AtDMR6	VS--QLEDFFPLIDLSS--T-DRSFLIQQIHQACARFGFFQVINHGVNKQIIDEMVSVARE	86
AlDMR6	VS--QLEDFFPLIDISS--T-DRSVLVQQIHQACARFGFFQVINHGVSKQLIDEMVSAHE	86
C.sativus_Cucsa.273300	VC--CWDKVPIDDLGC--E-EREMIVKQVEEACKSYGFFQVINHGVVRKELVEKVIEVGKQ	90
SlDMR6	VV--DCENVPIIDLSC--G-DQAQIIRQIGEQTYGFFQVINHGVPKVEVVEKMLGVAGE	86
M.guttatus_mgvla009622m.g	IE--EFDNVPIIDLGC--E-DHNLIVKQIGDACREYGGFFQVINHGVSKALVDNLCVAHE	85
VvDMR6.1	VS--ECKHVPIIDLK--DVNRAQLIQHIADACRLYGFFQVINHGVAAEMMEKMLEVADE	87
C.papaya_16416436	VS--ACQNVPVVDLGC--D-DRTQIIQQISDACKDFGFFQVINHGVSEETRDGMIGVAKE	86
VvDMR6.2 (E53G)	IA--DCENVPIIDLSC--D-DRAQIIEQLADACSYGFFQVINHGVSAEAEKMLHVANE	86
R.communis_29866.t000021	VL--ACDNVPIVDLGC--E-DGAQVVQQIGYACSNYGFFQVINHKVPDEVVADMLLVASE	86
M.truncatula_Medtr3g122530	VS--EFENVPIIDLGS--H-NRTQIVQQIGEQSSYGFFQVNVHGVPLEELKKTAEVAYD	86
G.max_Glyma04g227900	VS--ECEDVPIIDLGC--Q-NRAQIVHQIGEQACNYGFFQVINHGVVALEAAKEMAEVAHG	86
G.max_Glyma06g137000	VS--ECEDVPIIDLGS--Q-NRAQIVHQIGEQACNYGFFQVINHGVVALEAAKEMEVAHG	86
G.max_Glyma06g14190	VS--ECEDVPIIDLGS--Q-NRAQIVHQIGEQACNYGFFQVINHGVVALEAAKEMEVAHG	86
E.grandis_v1_0.018520m.g	VS--AFEHVPIIDLGC--N-DRSQVVRQVGDACRVYGGFFQVINHGVSTEAVERMQEVAAE	86
E.grandis_v1_0.018494m.g	VS--AFEHVPIIDLGC--N-DRSRVVRQVGDACRVYGGFFQVINHGVSTEAVERMQEVAAE	86
E.grandis_v1_0.018496m.g	VS--AFEHVPIIDLGC--N-DRSRVVHQVGDACRVYGGFFQVINHGVSTEAVERMQEVAAE	86
P.persica_ppa008269m.g	VS--ECKNIPVINLAS--E-NRAETVQQVGDACKSYGFFQVINHGVSTEAVEKMLGTATE	86
C.clementina_0.9_015118m.g	VS--ECENVPVIDLAC--D-DRSLIVQQVADACKNYGFFQAINHEVPLETVERVIEVAKE	86
P.persica_ppa022381m.g	VQPS-DHSIPLINLRGFDGSRHEIINQIGLACQNYGFFQVQNHAEIEVVIDNMLKVARE	91
P.persica_ppa019415m.g	VQPS-DHSIPLINLHGFDSRRHEIINQIGLACQNYGFFQVQNHAEIEAVIDNMLKVARE	91
C.clementina_0.9_032642m.g	-VQISDGSIPLIDLQVLDGPRRLDIKQIGQACQHDGVFQVKNHGIPETIINSMLSITRA	95
C.clementina_0.9_012078m.g	-VQISDGSIPLVDLQVLNGPSRLDTIKQIGQACQHDGFFQVKNHGIPETIINNMLTIARA	95
DLO		
B.distachyon_Bradi5g19250	VDHESGAGIPLIDLKHLDPERRRVVEAIGSACETDGGFFMVTNHGIPEAVVEGMLRVAKE	96
O.sativa_Os04g49210	VDHESGAGIPVIDLKQLDGPDRRKVVVEAIGSACETDGGFFMVKNHGIPEEVVEGMLRVARE	96
S.italica_Si010491m.g	VDNESGAGIPLIDLKKLNGPQRRVVEAIGRACGSDGFFMVTNHGIPAGVVEGMLRVARE	96

S.bicolor_Sb06g026350	VDNESGAGIPLIDLKMLNGPERRKVVEAIGRACESDGGFFMVTNHGIPAAVVEGMLRVARE	96
Z.mays_GRMZM2G050234	VDNESGAGIPLIDLKKLNGPERRKVVEAIGKACESDGGFFMVTNHGIPAAVVEGMLRVARE	96
G.max_Glyma03g42250	VVQSSDVCIPLIDLQDLHGPNRSHIIQQIDQACQNYGFFQVTNHGVPEGVIEKIMKVTR	94
G.max_Glyma16g01990	LHSS-IASIPIDLDLQGLGGSNHSQIIQNIHACQNYGFFQIVNHGIPPEVVS KMVNVSKE	93
G.max_Glyma07g05420	LHSS-LASIPIDLDLQGLGGSNHSQIIQNIHACQTYGFFQIVNHGIQEEVVS KMVNVSKE	93
<b>VvDLO1 (H52L)</b>	VQSSLDGSIPLIDLQDLHGPNRSHVVIKQIAEACQIDGFFRVKNHGIPESVIHGMLSITKE	94
R.communis_30076.t000026	VIQTSDCSIPLIDLQGLDGPLRSTLVKEIGQACQGYGFFQVKNHGIPEDVIDKMLSVSRE	94
AlDLO1	V-ESSSDSIPLIDLRELHGPNRAEVVQQLDSACSTYGFFQIKNHGVPDTTVDKMLTVARE	96
AtDLO1	V-ESSGDSIPLIDLRLDHGPNRAVIVQQLASACSTYGFFQIKNHGVPDTTVNKMQTVARE	95
AlDLO2	V-ETFGDSIPLIDLQDLHGPNRANIINQFAHACSSYGFFQIKNHGVPEEIIKQMMNVGRE	96
AtDLO2	V-QTSGDSIPLIDLHDLHGPNRADIINQFAHACSSCGFFQIKNHGVPEETIKKMMNAARE	93
C.sativus_Cucsa.193360	VRPSNTYSFSSVIDLHALDGPSRPDVIYQIRRACERDGGFFLVKNHGVPEEMINGVMRITRE	97
C.papaya_evm.TU.sup_37.106	VEISELSSSIPLIDLEGLDGPNRRSEIINQIAQACELHGFFQVKNHGVPEEMINGILRLARE	94
E.grandis_v1_0.017927m.g	VEASDASTIPLIDLQGLFGPNRDDIIRQIGKACQDGGFFQIKNHGIPPEVVQAIMNIAGE	96
E.grandis_v1_0.017897m.g	VEASDASTIPLIDLQGLFGPNRDDIIRLIGEACQDGGFFQIKNHGIPPEVVQAIMNIAGE	96
E.grandis_v1_0.047536m.g	VEASDASYIPLVDLQGLSGPNRDDIIRQIGRACQDGGFFQIKNHGIPPEKVQAIMNIARE	119
E.grandis_v1_0.017895m.g	VEASDASSIPLVDLQGLSGPNRDDIIRQIGRACQDGGFFQIKNHGIPPEKVQAIMNIARE	96
E.grandis_v1_0.017876m.g	VEASDASSIPLVDLQGLSGPNRDDIIRQIGRACQDGGFFQIKNHGIPPEKVQAIMNIARE	96
E.grandis_v1_0.015926m.g	VEASDASSIPLVDLQGLSGPNRDDIIRQIGRACQDGGFFQIKNHGIPPEKVQAIMNIARE	96
<b>VvDLO2</b>	-VQASDVSIPLIDLQDLQGPGRPDVVKQIGQACQHSQFFQIQNHGVSETMISNILRLARD	95
C.clementina_0.9_014263m.g	QTHISDGSIPLIDLQGLNGPNRRSDIIRQIGQACQHCQFFQVKNHGISEAMINMMLSIART	99
P.persica_ppa008100m.g	-VQISDASIPLIDLKDLHGHNHSNIIKQIGLACQTDGFFQVKNHGVPEEMIKDMLSIARE	94
P.persica_ppa008091m.g	-VQISDASIPLIDLKDLHGHNHSNIIKQIGLACQTDGFFQVKNHGVPEEMIKDMLSIARE	94
R.communis_30068.t000102	-VHKSDGSIRLIDLKGLRSPNRALVIKQIGQACQTDGFFQVKNHGLPDEMINSIMRTARE	93
M.esculenta_4.1_029834m.g	-VEMSDAAIPLIDLQGLYGNHSLVIAQIGRACQFDGFFQVKNHGIPEDVIDTILHTGTD	94

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**DMR6**

B.distachyon_Bradi5g19240	FFRLPPPEEKAKLYSDEPSKKIRLSTSFNVRKETVHNWRDYLRLHCHPLEEFVFPDWPSNPP	146
O.sativa_Os04g49194	FFRLPPPEEKAKLYSDEPSKKIRLSTSFNVRKETVHNWRDYLRLHCHPLEEFVPEWPSNPA	147
O.sativa_Os10g39140	FFRLPAEEKAKLYSDDPAKKIRLSTSFNVRKETVHNWRDYLRLHCHPLHQFVPDWPSNPP	151
S.bicolor_Sb01g030560	FFRLSPPEEKAKLYSDDPARKIRLSTSFNVRKETVHNWRDYLRLHCHPLDEFVPDWPSNPP	145
ZmFNSI-1/ZmDMR6	FFRLPPPEEKAKLYSDDPARKIRLSTSFNVRKETVHNWRDYLRLHCHPLDEFVLPDWPSNPP	145
B.distachyon_Bradilg77040	FFRLSPPEEKAKLYSDDPAKKIRLSTSFNVRKETVHNWRDYLRLHCHPLEQFVPDWPSNPS	145
O.sativa_Os03g03034	FFRLPAEEKAKLYSDDPAKKIRLSTSFNVRKETVHNWRDYLRLHCHPLHRYLPDWPSNPP	145
S.italica_Si036512m.g	FFRLPAEEKAKLYSDDPGKKMRLSTSFNVRKETVHNWRDYLRLHCHPLEQYVPDWPANPP	145
S.bicolor_Sb01g049030	FFRLPAEEKAKLYSDDPGKKMRLSTSFNVRKETVHNWRDYLRLHCHPLEQYVPDWPDNPP	145
Z.mays_GRMZM2G475380	FFRLPAEEKAKLYSDDPAKKMRLSTSFNVRKETVHNWRDYLRLHCHPLEQYVPDWPDNPP	145
A.coerulea_v1.008143m.g	FFHLPLDVKMQFYSDDPKTMRLSTSFNLKKESVHNWRDYLRLHCHPIEKYVQEWPSVPS	147
E.salsugineum_TP2g22820	FFSMTMEEEKMKLYSDDPTKTTRLSTSFNVKKEEVNWRDYLRLHCHPLHKYVHEWPSNPP	146
C.rubella_006g21660	FFSMSMEEEKMKLYSDDPTKTTRLSTSFNVKKEEVNWRDYLRLHCHPIHKYVHEWPSKPP	146
AtDMR6	FFSMSMEEEKMKLYSDDPTKTTRLSTSFNVKKEEVNWRDYLRLHCHPIHKYVNEWPSNPP	146
AlDMR6	FFSMSMEEEKMKLYSDDPTKTTRLSTSFNVKKEEVNWRDYLRLHCHPIHKYVHEWPSNPP	146
C.sativus_Cucsa.273300	FFELPMEEEKLKFYSDDPSKTVRLSTSFNVRKEQFNWRDYLRLHCHPLSNYTPHWPSNPP	150
SlDMR6	FFNLVPVEEKLKLYSDDPSKTMRLSTSFNVKKEVHNWRDYLRLHCHPLEKYAPEWPSNPS	146
M.guttatus_mgvla009622m.g	FFDLVSVEEKMKLYSDDPTKTMLRLSTSFNVKKEVHNWRDYLRLHCHPLEKYVPEWPSNPS	145
VvDMR6.1 (Y89H)	FFVRLPVEEKMKLYSDDPTKTMLRLSTSFNVNKEKVHNWRDYLRLHCHPLDQYTPWPSNPP	147
C.papaya_16416436	FFSLPMEEEKMKIYSDDPAKTTRLSTSFNVKKEKVHNWRDYLRLHCHPLHKYMPWESSPP	146
VvDMR6.2	FFQLPVEEKMKLYSDDPSKTMRLSTSFNVKKEKVHNWRDYLRLHCHPLEQYMPWPSNPP	146
R.communis_29866.t000021	FFKLPLEEKLKIYSDDPTKTMLRLSTSFNMKKEKVHNWRDYLRLHCHPLDKYISEWPSDPP	146
M.truncatula_Medtr3g122530	FFKLVPVEEKMKLYSDDPTKTMLRLSTSFNVNKEEVHNWRDYLRLHCHPLDNYVPEWPSNPP	146
G.max_Glyma04g227900	FFKLVPVEEKLKLYSEDPSKTMRLSTSFNVKKEVHNWRDYLRLHCHPLDKYAPEWPSNPP	146
G.max_Glyma06g137000	FFKLVPVEEKLKLYSEDTSKTMRLSTSFNVKKEVNRDYLRLHCHPLEKYAPEWPSNPP	146
G.max_Glyma06g14190	FFKLVPVEEKLKLYSEDTSKTMRLSTSFNVKKEVNRDYLRLHCHPLEKYAPEWPSNPP	146
E.grandis_v1_0.018520m.g	FFRLPVEEKMKLYSEDPTKTMLRLSTSFNVKKEKVHNWRDYLRLHCHPLEKYMEEWANPP	146
E.grandis_v1_0.018494m.g	FFRLPEEEKMKLYSEDPTKTMLRLSTSFNVKKEKVHNWRDYLRLHCHPLEKYMEEWANPP	146
E.grandis_v1_0.018496m.g	FFRLPVEEKMKLYSEDPTKTMLRLSTSFNVKKEKVHNWRDYLRLHCHPLEKYMEEWANPP	146
P.persica_ppa008269m.g	FFSLPVEEKMKLYSDDPSKTMRLSTSFNVKKEKVHNWRDYLRLHCHPLEKYVPEWPSNPS	146
C.clementina_0.9_015118m.g	FFNLVPVEEKLKLYSDDPSKTMRLSTSFNVNKEKVHNWRDYLRLHCHPLDKYVPEWPSNPS	146
P.persica_ppa022381m.g	FFHLPEERLKCFSDDPLKTTRLSTSFNVKTEKVSSWRDYLRLHCHPLEDYMHEWPSNPP	151
P.persica_ppa019415m.g	FFHLPEERLKCFSDDPLKTTRLSTSFNVKTEEVSSWRDYLRLHCHPLEDYMHEWPSNPP	151
C.clementina_0.9_032642m.g	FFKLPEERLKSYSDDPSKSTRLSTSFVNTEKVSNSWRDYLRLHCHPLQDYIHEWPSNPP	155
C.clementina_0.9_012078m.g	FFKLPEERLKSYSDDPSKSTRLSTSFVNTEKISNSWRDYLRLHCHPLQDYMHEWPSNPP	155

**DLO**

B.distachyon_Bradi5g19250	FFHLPEERLKCYSDDPKAIRLSTSFNVRTEKVSNSWRDYLRLHCHPLQSFIDQWPSNPP	156
O.sativa_Os04g49210	FFHMPESERLKCYSDDPKAIRLSTSFNVRTEKVSNSWRDYLRLHCHPLESFIDQWPSNPP	156
S.italica_Si010491m.g	FFHMPESERLKCYSDDPKAIRLSTSFNVRTEKVSNSWRDYLRLHCHPLESFIEQWPSNPP	156



S.bicolor_Sb06g026350	FFHLPESEERLKCYSDDPKKAIRLSTSFNVRTKVNWRDFLRLHCYPLESFVDQWPSNPP	156
Z.mays_GRMZM2G050234	FFHLPESEERLKCYSDDPNKAIRLSTSFNVRTKVSNNWRDFLRLHCYPLQSFVDQWPSNPP	156
G.max_Glyma03g42250	FFGLPESEKLSYSTDPFKASRLSTSFNVNSEKVSNNWRDFLRLHCHPIEDYIKWPSNPP	154
G.max_Glyma16g01990	FFGLPESEERLKNYSDDPTKTTRLSTSFNVKTEKVSNNWRDFLRLHCHPLEDYIQEWPGNPP	153
G.max_Glyma07g05420	FFGLPESEERLKNSDDPSKTTRLSTSFNVKTEKVSNNWRDFLRLHCHPLEDYIQEWPGNPP	153
<b>VvDLO1</b>	FFHLPESEERLKNYSDDPLKTMRLSTSFNVKTEQVSNNWRDFLRLCYCPLYEDYIQEWPSNPP	154
R.communis_30076.t000026	FFHLPESEERMKNYSDDPMRTRLSTSFNVRTKTSNWRDFLRLHCYPLDDYMQEWPTNPP	154
AlDLO1	FFHQPESEERVKHYSADPTKTTRVSTSFNIGADKILNWRDFLRLHCFPIEDFIEEWPSSPN	156
AtDLO1	FFHQPESEERVKHYSADPTKTTRLSTSFNVGADKVLNWRDFLRLHCFPIEDFIEEWPSSPI	155
AlDLO2	FFHQSESEERVKHYSADTKKTTRLSTSFNVSKKVSNNWRDFLRLHCYPIEDFIHEWPSTPV	156
AtDLO2	FFRQSESEERVKHYSADTKKTTRLSTSFNVSKKVSNNWRDFLRLHCYPIEDFINEWPSTPI	153
C.sativus_Cucsa.193360	FFRLPESEERLKSYSDDPTKKTRLSTSFNVKTEKVNWRDFLRLHCYPLHLYVDEWPSNPP	157
C.papaya_evm.TU.sup_37.106	FFRLPESEERLENYSDDPAKTTRLSTSFNVKTEKFSNWRDFLRLHCYPVQDYIHEWPTNPP	154
E.grandis_v1_0.017927m.g	FFRLPESEERLKNYSDDPSKSTRLSTSFNIKTEKVSNNWRDFLRLHCYPLEEYMHWPSTNPP	156
E.grandis_v1_0.017897m.g	FFRLPESEERLKNYSDDPSKSTRLSTSFNIKTEKVSNNWRDFLRLHCYPLEEYMHWPSTNPP	156
E.grandis_v1_0.047536m.g	FFHLPESEERLKNYSDDPTKSTRLSTSFNLKTEKVSNNWRDFLRLHCYPLEEYMHWPSTNPP	179
E.grandis_v1_0.017895m.g	FFHLPESEERLKNYSDDPTKSTRLSTSFNLKTEKVSNNWRDFLRLHCYPLEEYMQEWPTNPP	156
E.grandis_v1_0.017876m.g	FFQLPESEERLKNYSDDPTKSTRLSTSFNLKTEKVSNNWRDFLRLHCYPLEEYMHWPSTNPP	156
E.grandis_v1_0.015926m.g	FFRLPESEERLKNYSDDPTKSTRLSTSFNLKTEKVSNNWRDFLRLHCYPLEEYMHWPSTNPP	156
<b>VvDLO2</b>	FFQLPESEERLKNYSDNPSNPVRLSTSFNVKTEKVNWRDFLRLHCYPLEDYVHQWPSNPP	155
C.clementina_0.9_014263m.g	FFKLPESEERLKIYSDDPSKPTTRLSTSFNVKTEKVSNNWRDFLRLHCYPLQDYVHDWPLNPP	159
P.persica_ppa008100m.g	FFKLPESEERLKMYSDDPSKTTRLSTSFNVRTKLSNWRDFLRLHCYPLEDYVQEWPNPP	154
P.persica_ppa008091m.g	FFKLPESEERLKMYSDDPSKTTRLSTSFNVRTKLSNWRDFLRLHCYPLEDYVQEWPNPP	154
R.communis_30068.t000102	FFKLPESEERLKCYSDNPTKTTRLSTSFNVKTEKVSNNWRDFLRLHCYPLADYIQEWPCNPP	153
M.esculenta_4.1_029834m.g	FFKLPESEERLKSYSDDPAKTTRLSTSFNVKTEKFSNWRDFLRLHCYPVEDYIQEWPSNPP	154

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**DMR6**

B.distachyon_Bradi5g19240	AF-KEIISTYCR <b>EVRL</b> LGLRLMGAISLSLGLDENYVEN-VLG----	EQEQHMAVNYYPPC	200
O.sativa_Os04g49194	QF-KEIMSTYCR <b>EVRL</b> LGLRLLGAISSVSLGLEEDYIEK-VLG----	EQEQHMAVNYYPPC	201
O.sativa_Os10g39140	SF-KEIIGTYCT <b>EVREL</b> GFRLYEAISESLGLEGGYMR-TLG----	EQEQHMAVNYYPPC	205
S.bicolor_Sb01g030560	DF-KDTMSTYCK <b>EVREL</b> GFRLYAAISESLGLEASYMKE-TLG----	EQEQHMAVNYYPPC	199
ZmFNSI-1/ZmDMR6	DF-KETMGTYCK <b>EVREL</b> GFRLYAAISESLGLEASYMKE-ALG----	EQEQHMAVNYYPPC	199
B.distachyon_Bradilg77040	AF-REVMSTYCK <b>EIRE</b> LGFRLYAAISESLGLEEDYMKK-VLG----	EQEQHMAVNYYPPC	199
O.sativa_Os03g03034	SF-REIISTYCK <b>EVREL</b> GFRLYGAISESLGLEQDYIKK-VLG----	EQEQHMAVNYYPPC	199
S.italica_Si036512m.g	SF-REIVSAYC <b>REVR</b> ALGFRLYEAISASLGLEDDYVKK-TLG----	EQEQHMAVNYYPPC	199
S.bicolor_Sb01g049030	SF-RETVSAYC <b>REVR</b> ALGFRLYGAISEGLDLGVIYKE-TLG----	EQEQHMAVNYYPPC	199
Z.mays_GRMZM2G475380	SF-RRTVSAYCS <b>AVREL</b> GFRLYVAISEGLGLDGAYIKE-ALG----	EQEQHMAVNYYPPC	199
A.coerulea_v1.008143m.g	TF-KDVVATYCK <b>EVRL</b> LGLRLLGSISSLGLEEDYIEK-VLG----	DQGQHMAVNYYPPC	201
E.salsugineum_TP2g22820	SF-KEIVSKYSR <b>QVR</b> DVGCTIEELISESLGLEKDYMKK-VLG----	EQGQHMAINYYPPC	200
C.rubella_006g21660	SF-KEVVS <b>KYSRE</b> VEVGFNIEELISESLGLEKDYLLK-VLG----	EQGQHMAVNYYPPC	200
AtDMR6	SF-KEIVSKYS <b>REVR</b> EVGFKEIEELISESLGLEKDYMKK-VLG----	EQGQHMAVNYYPPC	200
AlDMR6	SF-KEIVSKYS <b>REVR</b> EVGFKEIEELISESLGLEKDYMKK-VLG----	EQGQHMAVNYYPPC	200
C.sativus_Cucsa.273300	SF-REIVSSYC <b>NEVR</b> KVGYRIEELISESLGLEKEYIRK-KLG----	EQGQHMAINYYPPC	188
SlDMR6	SF-REIVS <b>RYC</b> REIRQLGFRLLEEAIAESLGLDKCEIKD-VLG----	EQGQHMAINYYPPC	200
M.guttatus_mgvla009622m.g	SF-KDVVSTYCA <b>EIR</b> QLGLRLQEDISESLGLDKDNLKN-VLG----	DQGQHMAVNYYPPC	199
VvDMR6.1	SF-KEIVSSYC <b>KEVR</b> ELGFRLQEMISESLGLEKDHKN-VFG----	EQGQHMAVNYYPPC	201
C.papaya_16416436	SF-KEVVS <b>KYSIE</b> VR <b>ELGL</b> RIEELISESLGLDKDLIRN-VVG----	EQGQHMAVNYYPPC	200
VvDMR6.2	EF-KDTSNYC <b>VEVR</b> QLGHRLEEAIGESLGLEKDYIRN-TLG----	EQGQHMAVNYYPPC	200
R.communis_29866.t000021	LF-KEIVS <b>RYCIE</b> VRKLGFRLQELISESLGLPKDHIRN-VLG----	EQGQHMAVNYYPPC	200
M.truncatula_Medtr3g122530	SF-KETVANYC <b>KEVR</b> ELGLRIEYISESLGLEKDYLRN-ALG----	EQGQHMAVNYYPPC	200
G.max_Glyma04g227900	SF-KETVTEYCT <b>LVREL</b> GLRIQEIYISESLGLEKDYIKN-VLG----	EQGQHMAVNYYPPC	200
G.max_Glyma06g137000	SF-KETVTEYCT <b>IIRE</b> LGLRIQEIYISESLGLEKDYIKN-VLG----	EQGQHMAVNYYPPC	200
G.max_Glyma06g14190	SF-KETVTEYCT <b>IIRE</b> LGLRIQEIYISESLGLEKDYIKN-VLG----	EQGQHMAVNYYPPC	200
E.grandis_v1_0.018520m.g	TF-KEFVSNYC <b>REVR</b> LGRLLEELISESLGLEKDAVRN-ILG----	EQGQHMAVNYYPPC	200
E.grandis_v1_0.018494m.g	TF-KEFVSNYC <b>REVR</b> LGRLLEELISESLGLEKDAVRN-ILG----	EQGQHMAVNYYPPC	200
E.grandis_v1_0.018496m.g	TF-KEFVSNYC <b>REVR</b> LGRLLEELISESLGLEKDAVRN-ILG----	EQGQHMAVNYYPPC	200
P.persica_ppa008269m.g	SF-KDIVS <b>KYSEE</b> VR <b>ELGL</b> QELISESLGLEKDYIKS-TLG----	EQGQHMAVNYYPPC	200
C.clementina_0.9_015118m.g	TF-KEFVSTYCS <b>EVRL</b> GLGYRVLELISESLGLEKDYIKK-VLG----	EQGQHMAVNYYPPC	200
P.persica_ppa022381m.g	SF-REDVAEYCN <b>VKGL</b> AERLLEAISESLGLEKDYMR-ALG----	KHQQHMAINYYPPC	205
P.persica_ppa019415m.g	SF-REDVAEYCN <b>VKGL</b> AERLLEAISESLGLEKDYMR-ALG----	KHQQHMAINYYPPC	205
C.clementina_0.9_032642m.g	SF-RYN-----YARGLVLRLLLEAISESLGLQRDYIDK-ALG----	KHQQHMAINYYPPC	203
C.clementina_0.9_012078m.g	SV-REVVAEYCT <b>SVR</b> GLVLRLLLEAISESLGLQDFIDK-ALG----	KHQQHMAINYYPPC	209

**DLO**

B.distachyon_Bradi5g19250	AF-REVVGAYST <b>EARAL</b> RLLEAISESLGLERRHMT-AMG----	GHAQHMAVNYYPPC	210
O.sativa_Os04g49210	SF-RQVVGTY <b>SREAR</b> ALRLLEAISESLGLERGHMV-AMG----	RQAQHMAVNYYPPC	210
S.italica_Si010491m.g	SF-REVVGTY <b>ATEAR</b> ALRLLEAISESLGLERSHMA-AMG----	RQAQHMAVNYYPPC	210

S.bicolor_Sb06g026350	SF-RQVVGTYATEARALALRLLEAISESLGLERSHMR-AMG---- <td>210</td>	210
Z.mays_GRMZM2G050234	SF-RQVVGTYATEARALALRLLEAISESLGLERSHMA-AMG---- <td>210</td>	210
G.max_Glyma03g42250	SLSRQVDAEYCRKMRGVSLSKLVEAISESLGLERDYINR-VVGGKKGQEQQHLAMNYYPAC	213
G.max_Glyma16g01990	SF-REDVAEYSRKMRGLSLKLLEAISESLGLEKDYIDK-ALG---- <td>207</td>	207
G.max_Glyma07g05420	SF-REDVAEYSRKMRGLSLKLLEAISESLGLERDYIDK-ALG---- <td>207</td>	207
<b>VvDLO1</b>	SF-REVVAEYCKEARKLALLLLEAISESLGLERNHIDK-ALG---- <td>208</td>	208
R.communis_30076.t000026	SF-REDVGEYCRNVRDLAVRLLEAISESLGLERDYINK-ALD---- <td>208</td>	208
AlDLO1	SF-KEVTAEYATSVRALVLRLLLEAISESLGLES DHISN-ILG---- <td>210</td>	210
AtDLO1	SF-REVTAEYATSVRALVLRLLLEAISESLGLES DHISN-ILG---- <td>209</td>	209
AlDLO2	SF-REVTAEYATSVRALVLTLLLEAISESLGLVKDRVSN-TLG---- <td>210</td>	210
AtDLO2	SF-REVTAEYATSVRALVLTLLLEAISESLGLAKDRVSN-TIG---- <td>207</td>	207
C.sativus_Cucsa.193360	SF-RKEVAEYCTTMRQLTLKLLEAISESLGLPKDSIAN-SIG---- <td>211</td>	211
C.papaya_evm.TU.sup_37.106	FF-REDVAEYCSIRGLVLKLVEAISESLGLGGDYINK-VLG---- <td>208</td>	208
E.grandis_v1_0.017927m.g	SF-RKEVGEYCTRVRELALKLLEAISESLGLEREYISK-NLG---- <td>210</td>	210
E.grandis_v1_0.017897m.g	SF-RKEVGEYCTRVRELALKLLEAISESLGLEREYISK-NLG---- <td>210</td>	210
E.grandis_v1_0.047536m.g	SF-RKEVGEYCTRVRELVFLLLEAISESLGLEREYISQ-NLG---- <td>233</td>	233
E.grandis_v1_0.017895m.g	SF-RKEVGEYCTRVRELVLKLLEAISESLGLEREYISQ-NLG---- <td>210</td>	210
E.grandis_v1_0.017876m.g	SF-RKEMGEYCTRVRELVLKLLEAISESLGLEREYISQ-NLG---- <td>210</td>	210
E.grandis_v1_0.015926m.g	SF-RKEVGEYCTRVRELVFLLLEAISESLGLEREYISQ-NLG---- <td>210</td>	210
<b>VvDLO2</b>	SF-REDVAEYCTSIRALVLRLLLETISESLGLEKNYVSG-VLG---- <td>209</td>	209
C.clementina_0.9_014263m.g	SF-REDVGDYCTSVRGLVLRLLIQAISESLGLPSDYIDKEALG---- <td>214</td>	214
P.persica_ppa008100m.g	SF-REQVGEYCTTVRGLVLRLLGAIASESLGLEKNYIVE-ALG---- <td>208</td>	208
P.persica_ppa008091m.g	SF-REQVGEYCTTVRGLVLRLLGAIASESLGLEKNYIVE-ALG---- <td>208</td>	208
R.communis_30068.t000102	LF-RKNVSEYSTSVRRLVLTLLLEAISESLGLKRDYIEK-TLS---- <td>207</td>	207
M.esculenta_4.1_029834m.g	SF-RKNVAEYCTRVRGLVLTLLLEAISESLGLKSDYIDK-ALS---- <td>208</td>	208

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**DMR6**

B.distachyon_Bradi5g19240	PEPDLTYGLPKHTDPNALTVLLQDPNVSGLQVLKDG-QWIAVDPRPNALVINLGDQLQ--	257
O.sativa_Os04g49194	PEPDLTYGLPKHTDPNALTILLPDPHVAGLQVLRDGDQWIVVNPRPNALVVNLGDQIQ--	259
O.sativa_Os10g39140	PEPELTYGLPAHTDPNALTILLMDQVAGLQVLNDG-KWIAVNPQPGALVINIGDQLQ--	262
S.bicolor_Sb01g030560	PEPELTYGLPAHTDPNALTILLMDQDVAGLQVLHGG-KWVAVNPQPGALIINIGDQLQ--	256
ZmFNSI-1/ZmDMR6	PEPELTYGLPAHTDPNALTILLMDPDVAGLQVLHAG-QWVAVNPQPGALIINIGDQLQ--	256
B.distachyon_Bradi1g77040	PSPELTYGLPAHTDPNALTILLMDEQVAGLQVLKDG-QWIAVNPRPNALVVNLGDQLQ--	256
O.sativa_Os03g03034	PEPELTFGLPAHTDPNALTILLMDQQVAGLQVLKEG-RWIAVNPQPNALVINIGDQLQ--	256
S.italica_Si036512m.g	PAPELTYGLPAHTDPNALTILLMDQQVAGLQVLNDG-RWIAVNPRPNALVINIGDQLQ--	256
S.bicolor_Sb01g049030	PAPELTYGLPAHTDPNALTILLMDQQVAGLQVLKDG-RWIAVNPRPGALVVNLGDQLQ--	256
Z.mays_GRMZM2G475380	PAPELTYGLPAHTDPNALTILLMDQQVAGLQVLKDG-RWIAVNPRPGALVVNLGDQLQVT	258
A.coerulea_v1.008143m.g	PEPELTYGLPRHTDPNTITILLQGGQVAGLQVLHNG-KWVAVNPYPNAFVVNLGDQIQ--	258
E.salsugineum_TP2g22820	PEPELTYGLPAHTDPNVLTILLQDATVCGLQILIDG-HWFAVNPRPDAFVINIGDQLQ--	257
C.rubella_006g21660	PEPELTYGLPAHTDPNALTILLQDSTVCGLQILIDG-QWFAVNPHPNAFVINIGDQLQ--	257
AtDMR6	PEPELTYGLPAHTDPNALTILLQDTTVCGLQILIDG-QWFAVNPHPNAFVINIGDQLQ--	257
AlDMR6	PEPELTYGLPAHTDPNALTILLQDTTVCGLQILIDG-QWFAVNPHPNAFVINIGDQLQ--	257
C.sativus_Cucsa.273300	POPELTYGLPGHTDPNALTILLQDLHVAGLQVLKDG-KWLAVNPHPNAFVINIGDQLQ--	245
SlDMR6	POPELTYGLPAHTDPNSLTILLQDLQVAGLQVLKDG-KWLAVKPQPDFAFVINLGDQLQ--	257
M.guttatus_mgv1a009622m.g	PEPELTYGLPAHTDPNALTILLQDLQVAGLQVLKDG-KWLAIKPQPGAFVINIGDQLQ--	256
VvDMR6.1 (I253K)	POPELTYGLPGHTDPNALTILLQDLRVAGLQVLKDG-TWLAIKPHPGAFVVNLGDQLQ--	258
C.papaya_16416436	POPELTYGLPAHTDPNALTILLQDLQVSGLQVLKDG-KWVAVHPQPNAFVINIGDQLQ--	257
VvDMR6.2	PEPELTYGLPAHTDPNALTILLQDSHVAGLQVLKDG-KWVAVKPHPGAFVVNLGDQLQ--	257
R.communis_29866.t000021	POPDLTYGLPGHTDPNALTILLQDLQVAGLQVFKDG-KWLAVNPHPNAFVINLGDQLQ--	257
M.truncatula_Medtr3g122530	POPELTYGLPGHTDPNALTILLQDLHVAGLQVLKDG-KWLAINPIPDFAFVINIGDQLQ--	257
G.max_Glyma04g227900	PEPELTYGLPGHTDPNALTILLQDLQVCGLQVLKNG-KWLAVNPQPNAFVINIGDQLQ--	257
G.max_Glyma06g137000	PEPELTYGLPGHTDPNALTILLQDLQVAGLQVLKDG-KWLAVSPQPNAFVINIGDQLQ--	257
G.max_Glyma06g14190	PEPELTYGLPGHTDPNALTILLQDLQVAGLQVLKDG-KWLAVSPQPNAFVINIGDQLQ--	257
E.grandis_v1_0.018520m.g	PEPELTYGLPGHTDPNALTILLQDPHVAGLQVLKDG-KWVAIDPHPNAFVINIGDQLQ--	257
E.grandis_v1_0.018494m.g	PEPELTYGLPGHTDPNALTILLQDLHVAGLQVLKDG-KWVAIDPHPNAFVINIGDQLQ--	257
E.grandis_v1_0.018496m.g	PEPELTYGLPGHTDPNALTILLQDLHVAGLQVLKDG-KWVAIDPHPNAFVINIGDQLQ--	257
P.persica_ppa008269m.g	POPELTYGLPGHTDPNALTILLQDLEVAGLQVLKDG-KWIAVNPHPNAFVINLGDQLQ--	257
C.clementina_0.9_015118m.g	PEPELTYGLPGHTDPNALTILLQDLEVAGLQVLKDD-KWVAVNPLPNAFVINIGDQLQ--	257
P.persica_ppa022381m.g	HQPELTYGLPGHADPNVVTLLQD-DVAGLQVFNNG-RWVAVKMPHTFIVNIGDQIQ--	261
P.persica_ppa019415m.g	HQPELTYGLPGHADPNVVTLLQD-DVAGLQVFNNG-RWVAVKMPHTFIVNIGDQIQ--	261
C.clementina_0.9_032642m.g	POPDLTYGLPGHIDPNLITVLLQD-DVPGLQVLRKG-KWLPVSPIPNTFIVKIGDMQ--	259
C.clementina_0.9_012078m.g	POPDLTYGLPGHTDPNLITVLLQD-DVPGLQVLRNG-KWLPVSPIPNTFIVNIGDMQ--	265

**DLO**

B.distachyon_Bradi5g19250	POPELTYGLPGHKDPNAVTLLLQD-GVSGLQVQRGG-RWVAVNPVPNALVINIGDQLQ--	266
O.sativa_Os04g49210	POPELTYGLPGHKDPNAITLLQD-GVSGLQVQRNG-RWVAVNPVPDALVINIGDQIQ--	266
S.italica_Si010491m.g	POPELTYGLPGHKDPNAITLLQD-GVSGLQVQRDG-RWVAVNPVPNALVINIGDQLQ--	266



S.bicolor_Sb06g026350	PQPELTYGLPGHKDPNAITLLLQD-GVSGLQVQGG-RWVAVNPVPDALVINIGDQM--	266
Z.mays_GRMZM2G050234	PQPELTYGLPGHKDPNAITLLLQD-GVSGLQVQGG-RWVAVNPVPNALVINIGDQM--	266
G.max_Glyma03g42250	PEPELTYGLPGHTDPTVITILLQD-EVPGLQVLKDG-KWVAVNPIPNTFVVNVGDQIQ--	269
G.max_Glyma16g01990	PEPELTYGLPAHADPNAITILLQN-QVPGLQVLHDG-KWLTVPNPNTFIVNIADQIQ--	263
G.max_Glyma07g05420	PEPELTYGLPAHADPNAITILLQN-EVPGLQVLYDG-KWLTVPNPNTFIVNIGDQIQ--	263
<b>VvDLO1</b>		
R.communis_30076.t000026	PQPELTFGLPGHADPNALTILLQD-DVPGLQVLKDG-KWVAIHPIPTFIVNIGDQIQ--	264
AlDLO1	PQPELTYGLPVHADPNVITILLQD-DVPGLQVLKDG-KWVAVSPVPHTFIVNIGDQIQ--	264
AtDLO1	PEPELTYGLPGHKDPTVITVLLQD-QVSGLQVFKDN-KWVAVNPIPNTFIVNIGDQM--	266
AlDLO2	PEPELTYGLPGHKDPTVITVLLQD-QVSGLQVFKDD-KWVAVSPIPTFIVNIGDQM--	265
AtDLO2	PQPELTYGLPGHKDANLITVLLQD-EVSGLQVFEDG-KWIAVNPIPNTFIVNLGDQM--	266
C.sativus_Cucsa.193360	PQPELTYGLPGHKDANLITVLLQD-EVSGLQVFKDG-KWIAVNPVPNTFIVNLGDQM--	263
C.papaya_evm.TU.sup_37.106	PQPDLYGLPCHTDPNLITLLLQD-QVPGLQVHRDG-AWVALNPIPNTFIINIGDQM--	267
E.grandis_v1_0.017927m.g	PEPELTYGLPGHTDPNLITVLLQD-DVPGLQVLRNG-KWVAVNPIPNTFIINIGDQM--	264
E.grandis_v1_0.017897m.g	PQPELTYGLPGHTDQNLITILLQD-EVPGLQVLRDG-KWIAVNPIPNTFIVNIGDQM--	266
E.grandis_v1_0.047536m.g	PQPELTYGLPGHTDNLITILLQD-DVPGLQVLRDG-KWIAVNPIPNTFIVNIGDQM--	266
E.grandis_v1_0.017895m.g	PQPELTYGLPSHTDPNLITILLQD-DVPGLQVLRNG-KWVAVNPIPNTFIVNIGDQM--	289
E.grandis_v1_0.017895m.g	PQPELTYGLPGHTDPNLITILLQD-DVPGLQVLRNG-KWVAVNPIPNTFIVNIGDQM--	266
E.grandis_v1_0.017876m.g	PQPELTYGLPGHTDPNLITILLQD-DVPGLQVLRNG-KWVAVNPIPNTFIVNIGDQM--	266
E.grandis_v1_0.015926m.g	PQPELTYGLPGHTDPNLITILLQD-DVPGLQVLRNG-KWVAVNPIPNTFIVNIGDQM--	266
<b>VvDLO2</b>		
C.clementina_0.9_014263m.g	PQPELTYGLPGHTDCSLITVLLQD-DVPGLQVLRNG-KWVSVNPIPNSFIVNIGDHMQ--	265
P.persica_ppa008100m.g	PQPELTYGLPGHTDPNLITLLLQD-DVPGLQVLRDG-NWVPVNPPISTFIVNIGDQM--	270
P.persica_ppa008091m.g	PEPELTYGLPGHTDCNLITILLQD-DVAGLQVLRNG-KWVAVNPIPNTFIVNIGDMMQ--	264
R.communis_30068.t000102	PEPELTYGLPGHTDCNLITILLQD-DVAGLQVLRNG-KWVAVNPIPNTFIVNIGDMMQ--	264
M.esculenta_4.1_029834m.g	PQPELTYGLPGHTDPNLITILLQD-HVPGLQVLRNG-KWIAINPISTFIVNIGDQM--	263
	PQPELTYGLPEHSDPNLITILLQD-QVPGLQVLRNG-KWVAVDPIPTFIVNIGDQM--	264

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**DMR6**

B.distachyon_Bradi5g19240	-----ALSNGAYKSVWHRAVVNAAQERMSVASFLCPC	289
O.sativa_Os04g49194	-----ALSNDAYKSVWHRAVVNPVQERMSVASFMCP	291
O.sativa_Os10g39140	-----ALSNGKYRSVWHRAVVNSDRERMSVASFLCPC	294
S.bicolor_Sb01g030560	-----ALSNGQYRSVWHRAVVNSDRERMSVASFLCPC	288
ZmFNSI-1/ZmDMR6	-----ALSNGQYRSVWHRAVVNSDRERMSVASFLCPC	288
B.distachyon_Bradilg77040	-----ALSNGRYKSVWHRAVVNSDRPRMSIASFMCP	288
O.sativa_Os03g03034	-----ALSNGRYKSVWHRAVVNSDKARMSVASFLCPC	288
S.italica_Si036512m.g	-----ALSNGRYKSVWHRAVVNSDRPRMSVASFLCPC	288
S.bicolor_Sb01g049030	-----ALSNGRYKSVWHRAVVNSDRPRMSVASFLCPC	288
Z.mays_GRMZM2G475380	CSCIALPLFPFPHLLSAPGLHYCTAPAQALSNGRYRSVWHRAVVNADPRMSVASFLCPC	318
A.coerulea_v1.008143m.g	-----ALSNGNYASVWHRATVNTDRERISVASFLCPA	290
E.salsugineum_TP2g22820	-----ALSNGVYKSVWHRAVTNTDKPRLSVASFLCPA	289
C.rubella_006g21660	-----ALSNGVYKSVWHRAVTNTENPRLSVASFLCPA	289
AtDMR6	-----ALSNGVYKSVWHRAVTNTENPRLSVASFLCPA	289
AlDMR6	-----ALSNGVYKSVWHRAVTNTENPRLSVASFLCPA	289
C.sativus_Cucsa.273300	-----ALSNGVYKSVWHRAVVNVDPRLSVASFLCPC	277
SlDMR6	-----AVSNGKYRSVWHRATIVNSDQARMSVASFLCPC	289
M.guttatus_mgvla009622m.g	-----ALSNGKYKSVWHRAVVNADKARLSVASFLCPC	288
VvDMR6.1	-----AVSNGKYKSVWHRAVVNAESERLSVASFLCPC	290
C.papaya_16416436	-----AVSNGKYKSVWHRAVVNSDKVRLSIASFLCPC	289
VvDMR6.2	-----ALSNGKYRSVWHRATVNVGKARMSIASFLCPS	289
R.communis_29866.t000021	-----ALSNGRYKSVWHRATIVNADREMSIASFLCPC	289
M.truncatula_Medtr3g122530	-----ALSNGLYKSVWHRATIVNAEKPRLSVASFLCPD	289
G.max_Glyma04g227900	-----ALSNGLYKSVWHRAVVNVEKPRLSVASFLCPN	289
G.max_Glyma06g137000	-----ALSNGLYKSVWHRAVVNVEKPRLSVASFLCPN	289
G.max_Glyma06g14190	-----ALSNGLYKSVWHRAVVNVEKPRLSVASFLCPN	289
E.grandis_v1_0.018520m.g	-----ALSNGRYKSVWHRATIVNADKPRMSIASFLCPS	289
E.grandis_v1_0.018494m.g	-----ALSNGRYKSVWHRATIVNADKPRMSIASFLCPS	289
E.grandis_v1_0.018496m.g	-----ALSNGRYKSVWHRATIVNADKPRMSIASFLCPS	289
P.persica_ppa008269m.g	-----ALSNGIYRSVWHRAITNTDRARLSVASFLCPQ	289
C.clementina_0.9_015118m.g	-----ALSNGRYKSVWHRATIVNAEKARMSVASFLCPN	289
P.persica_ppa022381m.g	-----VVSNDRYKSVLHRAVVNCDKERISIPTYCPS	293
P.persica_ppa019415m.g	-----VVSNDRYKSVLHRAVVNCDKERISIPTYCPS	293
C.clementina_0.9_032642m.g	-----VLSNDRYKSVLHRAVVNCDKERISIPTYCPS	291
C.clementina_0.9_012078m.g	-----VLSNDRYKSVLHRAVVNCDKERISIPTYCPS	297

**DLO**

B.distachyon_Bradi5g19250	-----ALSNDRYKSVLHRVIVNSESERISVPTYCPS	298
O.sativa_Os04g49210	-----ALSNDRYKSVLHRVIVNSESERISVPTYCPS	298
S.italica_Si010491m.g	-----ALSNDRYKSVLHRVIVNSESERISVPTYCPS	298

S.bicolor_Sb06g026350	-----	ALSNDRYKSVLHRVIVNSESERISVPTFFYCPS	298
Z.mays_GRMZM2G050234	-----	ALSNDRYKSVLHRVIVNSESERISVPTFFYCPS	298
G.max_Glyma03g42250	-----	VISNDKYKSVLHRAVVCNKDRISIPTFFYFPS	301
G.max_Glyma16g01990	-----	VISNDRYKSVLHRAVNCCKERMISIPTFFYCPS	295
G.max_Glyma07g05420	-----	VISNDRYKSVLHRAVNCCKERMISIPTFFYCPS	295
<b>VvDLO1</b>	-----	VLSNDCYKSAVHRAVVCQKERISIPTFFYCPS	296
R.communis_30076.t000026	-----	VISNDRYKSVLHRAVVNSNKERISIPTFFYCPS	296
AlDLO1	-----	VISNDKYKSVLHRAVVNTEKERLSIPTFFYFPS	298
AtDLO1	-----	VISNDKYKSVLHRAVVNTENERLSIPTFFYFPS	297
AlDLO2	-----	VISNDKYKSVLHRAVVNIDKERISIPTFFYCPS	298
AtDLO2	-----	VISNEKYKSVLHRAVVNSDMERISIPTFFYCPS	295
C.sativus_Cucsa.193360	-----	VLSNDRYKSVLHRAVVNNATERISIPTFFYCPS	299
C.papaya_evm.TU.sup_37.106	-----	VISNDKYKSVVHRAVVNSERERISIPTFFYCPS	296
E.grandis_v1_0.017927m.g	-----	VISNDKYKSVLHRAVVNCDRERISIPTFFYCPS	298
E.grandis_v1_0.017897m.g	-----	VISNDKYKSVLHRAVVNCDRERISIPTFFYCPS	298
E.grandis_v1_0.047536m.g	-----	VISNDKYKSVLHRAVVNNTERISIPTFCCPS	321
E.grandis_v1_0.017895m.g	-----	VISNDKYKSVLHRAVVNCNTERISIPTFFYCPS	298
E.grandis_v1_0.017876m.g	-----	VISNDKYKSVLHRAVVNCNTERISIPTFFYCPS	298
E.grandis_v1_0.015926m.g	-----	VISNDKYKSVLHRAVVNCNTERISIPTFFYCPS	298
<b>VvDLO2</b>	-----	VISNDRYKSVLHRAVVNCNKDRISIPTFFYCPS	297
C.clementina_0.9_014263m.g	-----	VLSNDRYKSVLHRAVVSVDKERISIPTFFYCSS	302
P.persica_ppa008100m.g	-----	VISNDKYKSVLHRAVVNCNSERISIPTFFYCPS	296
P.persica_ppa008091m.g	-----	VISNDKYKSVLHRAVVNCNSERISIPTFFYCPS	296
R.communis_30068.t000102	-----	VISNDRYKSVLHRAVVNSYEERISIPTFFYCPS	295
M.esculenta_4.1_029834m.g	-----	VISNNYKSVLHRAVVNSDKERLSIPTFFYCPS	296

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**DMR6**

B.distachyon_Bradi5g19240	NSAVIGPAAKLVGD---GDEPVYRSYTYDEYYNKFWSRN-LDQEHCLLELFRGQK----	339
O.sativa_Os04g49194	NSAVISPAARKLVAD---GDAPVYRSFTYDEYYKKFWSRN-LDQEHCLLELFRGQ-----	340
O.sativa_Os10g39140	NSVELGPAKKLITD---DSPAVYRNYTYDEYYKKFWSRN-LDQEHCLLELFR-----	342
S.bicolor_Sb01g030560	NHVVLGPAKKLVTE---DTPAVYRSYTYDEYYKKFWSRN-LDQEHCLLELFR-----	336
ZmFNSI-1/ZmDMR6	NHVVLGPAKKLVTE---DTPAVYRNYTYDKYYAKFWSRN-LDQEHCLLELFR-----	336
B.distachyon_Bradilg77040	NSVVLGPAEKLVDG---ASPAVYRNYTYDEYYKKFWSRN-LDQEHCLLELFR-----	336
O.sativa_Os03g03034	NDVLIGPAQKLITD---GSPAVYRNYTYDEYYKKFWSRN-LDQEHCLLELFRTPPTDTS	342
S.italica_Si036512m.g	NDVRIGPAAKLVGE---GAPAVYRDYTYAEYYGKFWSRN-LDQEHCLLELFR-----	336
S.bicolor_Sb01g049030	NDVRIGPAAKLVTE---DTPAVYRDYTYAEYYAKFWSRN-LDQEHCLLELFR-----	336
Z.mays_GRMZM2G475380	NDARIGPAARLLTD---GTPAVYRDYTYAEYYAKFWSRN-LDQEHCLLELFRTPTS---	369
A.coerulea_v1.008143m.g	NDAIICPAV-----KDGSPSMYKKFTYDEYYKKFWSGN-LDQOHCLELFRKE-----	335
E.salsugineum_TP2g22820	DCAVISPAKPLWEDEDEAKPMYRDYTYAEYYKKFWSRN-LDQEHCLLENFLNH-----	341
C.rubella_006g21660	DCAVMSPAKSLWEAEDSETKPIYRDFTYAEYYKKFWSRN-LDQEHCLLENF-----	338
AtDMR6	DCAVMSPAKPLWEAEDDETKPVYKDFTYAEYYKKFWSRN-LDQEHCLLENFLNN-----	341
AlDMR6	DCAVMSPAKPLWEAEDNETKPVYRDFTYAEYYKKFWSRN-LDQEHCLLEYFRNN-----	341
C.sativus_Cucsa.273300	DDALITPAPLLSQ---PSPIYRPFTYAQYNTFWNRN-LDQOHCLELFRKNHPP---	326
SlDMR6	DSAKISAPKLLTED---GSPVIYQDFTYAEEYNNKFWSRN-LDQOHCLELFRKN-----	337
M.guttatus_mgvla009622m.g	DSANISAPKGLTGG---EDPAVYRDYTYNEYYKKFWSRN-LDQEHCLLELFRKN-----	336
VvDMR6.1	NDAVIGPAKPLTED---GSAPIYKNFTYAEEYKKFWGRD-LDQEHCLLELFRKN-----	338
C.papaya_16416436	DDAVISPPKLLTAD---GSVAIYRDFTYAEYYKKFWSRN-LDQEHCLLELFRNK-----	338
VvDMR6.2	DDALISPARALTDE---GSAAIYRSFTYAEEYKKFWSRN-LDQEHCLEVFRKN-----	337
R.communis_29866.t000021	DDALISPAKPLTEG---ESGAVYRDFTYAEYYKKFWSRN-LDQEHCLLELFRKN-----	337
M.truncatula_Medtr3g122530	NEALICPAKPLTED---GSGAVYRGFTYPEYYSKFWSRD-LEKEHCLEFFKNN-----	338
G.max_Glyma04g227900	DEALISPAKPLTEG---GSEAIYRGFTYAEEYKKFWSRN-LDQEHCLEFFKKNK-----	338
G.max_Glyma06g137000	DEALISPAKPLTEH---GSEAVYRGFTYAEEYKKFWSRN-LDQEHCLLELFRKNK-----	338
G.max_Glyma06g14190	DEALISPAKPLTEH---GSEAVYRGFTYAEEYKKFWSRN-LDQEHCLLELFRKNK-----	338
E.grandis_v1_0.018520m.g	NDALISSPVSLLDN---GCGPTYRDFTYAEYYKKFWSRN-LDQEHCLLELFRKNQA----	339
E.grandis_v1_0.018494m.g	DDALISSPVSLLDN---GCGPTYRDFTYAEYYKKFWSRN-LDQEHCLLELFRKNQA----	339
E.grandis_v1_0.018496m.g	DDALISSPVSLLDN---GCGPTYRDFTYAEYYKKFWSRN-LDQEHCLLELFRKNQA----	339
P.persica_ppa008269m.g	DDALISPAKALTDD---GSAAIYRGYTYTEYYKKFWTRD-LNQEHCLELFRKTDQ----	339
C.clementina_0.9_015118m.g	NDAMISPPKALTED---GSGAVYRDFTYAEYYSKFWSRN-LDQEHCLLELFRKN-----	337
P.persica_ppa022381m.g	YDAVMEPAPQLVDD---H-HPPLYRSFTYAEEFYEFKFWDRG-LNTRSSLDLFRQTSHA--	345
P.persica_ppa019415m.g	YDAVMEPAPQLVDD---H-HPPLYRSFTYAEEFYEFKFWDRG-LNTRSSLDLFRKTTSHA--	345
C.clementina_0.9_032642m.g	PDAVIAPAKDLIDER---HP-----KFWNRG-LVDECCLDLFRKASTA---	329
C.clementina_0.9_012078m.g	PDAVIAPAKDLIDER---HPAVYKNFTYAEEYQKFWNRG-L-DEKCLDLFRKASTA---	347

**DLO**

B.distachyon_Bradi5g19250	PDAVVAPAEALVDG---S-HPLAYRPFTTYQEEYEFWNMG-LESASCLDRFRPMD----	348
O.sativa_Os04g49210	PDAVIAPAGALVDGA-L-HPLAYRPFKYQAYYDEFWNMG-LQSASCLDRFRPNDQAV--	352
S.italica_Si010491m.g	PDAVIAPAGALVDD---A-HPLAYRPFTTYQEEYDEFWNMG-LQSASCLDRFRPG-----	347



S.bicolor_Sb06g026350	PDGVIAPADALVDD--A-HPLAYRPFTYQ EYYDEFWNMG-LQSASCLDRFRPGGSIE-	351
Z.mays_GRMZM2G050234	PDAVIAPADALVDD--G-HPLAYRPFTYQ EYYDAFWNMG-LQSASCLDRFRPGGSLE-	351
G.max_Glyma03g42250	NDAIIGPAPQLIHGH-H-HPPQYNNFTYNEYYQNFWRNG-LSKETCLDIFKA-----	350
G.max_Glyma16g01990	PDALIKPAPQLVDK--E-HPAQYTNFTYREYYDKFWIRG-LSKETCVDMFKAQD----	345
G.max_Glyma07g05420	PDALIKPAPKLVDN--E-HPAQYTNFTYREYYDKFWNRG-LSKETCVDMFKAQD----	345
<b>VvDLO1 (G302E)</b>	PDAVIGPAPGLVDH--G-HPALYRKFTYSEYFGKFWNRG-LATQSCLDMFKT-----	344
R.communis_30076.t000026	PDAAGPAPPLVDN--H-HPLLYTNFTYSQYYHKFWNRG-LATHCLDMFKK-----	344
AlDLO1	TDAVIGPAHELIN EQ-E-SLAVYRTFFVEYWDKFWNRG-LATASCLDAFKASTT---	350
AtDLO1	TDAVIGPAHELIN EQ-D-SLAIYRTYFFVEYWDKFWNRG-LATASCLDAFKAPTT---	349
AlDLO2	EDAMIGPAQELINEE-EDSHAIYRNFTYA EYFEKFWDTA-FATESCIDSFKASTA---	351
AtDLO2	EDAVISPAQELINEE-EDSPAIRNFTYA EYFEKFWDTA-FATESCIDSFKASTA---	348
C.sativus_Cucsa.193360	PEAMIGPAKELIHDE---HRPAFRNFTYSEYYQTFWSGE-LDTRRCLDLFRI-----	347
C.papaya_evm.TU.sup_37.106	LDAVIGPAH-----RPSVYRNFSYGEYYSKFWSRSSLTAAQACLDMFKA-----	339
E.grandis_v1_0.017927m.g	PEALIGPAQGLIDHD---NPAVYRSFTY EYYHKFWNRG-LRTECCLDMFKIPSA---	349
E.grandis_v1_0.017897m.g	PEALIGPAQGLIDHE---HPAVYRSFTY EYYHKFWNRG-LRTECCLDMFKIPSA---	349
E.grandis_v1_0.047536m.g	PEGLIQPAQGLIDHE---HPPVYRSFTWE EYQKFYHRG-LRTECCLDMFKIPSA---	372
E.grandis_v1_0.017895m.g	PEGLIRPAQGLIDHE---HPAVYKSFTY EYYHKFWNRG-LRTECCLDMFKIHSA---	349
E.grandis_v1_0.017876m.g	PEGLIRPAQGLIDHE---HPAVYRSFTY EYYHKFWNRG-LRTECCLDMFKIHSA---	349
E.grandis_v1_0.015926m.g	PEGLIRPAQGLIDHG---HPAVYRSFTY EYYHKFWNRG-LRTECCLDMFKIPSA---	349
<b>VvDLO2</b>	PDAVIGPSP ELVDDD---HPAVYRNFTCEEYYTQFWNRG-LATESCLDTFKASTT---	348
C.clementina_0.9_014263m.g	PDAVIGPAKGLVDQD---HPAVYRDFTYA EYKFWNRG-LATECCLEMFKASSTV---	354
P.persica_ppa008100m.g	PDAVIGPAKDLISHD---QPAMYRNFTYA EYFEKFWNRG-LATECCLDLFKPN-----	345
P.persica_ppa008091m.g	PDAVIGPAKDLISHD---QPAMYRNFTYA EYFEKFWNRG-LATECCLDLFKPN-----	345
R.communis_30068.t000102	PDAVIGPAKDLIDPD---HPAAYREFTYA EYKFWDRG-LAKECCLDLFKTSTA---	346
M.esculenta_4.1_029834m.g	SDAVIGPAKDLIDND---HPAVYKHFTYA EYEIFWNRG-LEKECCLDLFKISSA---	347
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