

g8013|g8013.t1 1 ----- 0 -----
Vocar20005591m.g|Vocar20005591m 1 ----- 0 -----
GRMZM5G800751|GRMZM5G800751.T03 1 ----- 0 -----
GSVIVG0100821001|GSVIVT0100821001 1 ----- 0 -----
121429|121429 1 ----- 0 -----
Glyma05g35480|Glyma05g35480.1 1 ----- 0 -----
Glyma08g04250|Glyma08g04250.1 1 ----- 0 -----
Medtr8g103470|Medtr8g103470.1 1 ----- 0 -----
Bra015061|Bra015061 1 ----- 0 -----
Carubv10014271m.g|Carubv10014271m 1 ----- 0 -----
Potri.006G157900|Potri.006G157900.1 1 ----- 0 -----
Potri.006G160000|Potri.006G160000.1 1 ----- 0 -----
Potri.018G081800|Potri.018G081800.1 1 ----- 0 -----
Eucgr.C03817|Eucgr.C03817.1 1 ----- 0 -----
PGSC0003DMG400000378|PGSC0003DMT40000102 1 ----- 0 -----
29912.t000235|29912.m005509 1 ----- 0 -----
GSVIVG01015377001|GSVIVT01015377001 1 ----- 0 -----
Carubv10009515m.g|Carubv10009515m 1 MAIRVT--FT----- YSSYVARIASSAGTRVGTGDV--
Bra015534|Bra015534 1 MAIRVT--LT----- YSSYVARNIASSAARVVGADV--
Bra031542|Bra031542 1 MAIRVT--FT----- YSSYVARNIASSAARVVGADF--
LOC_Os03g55640|LOC_Os03g55640.1 1 MAIRIT--MS----- YSGYVAQSLASSFGLRCTAAAAASSGAP
Bra021634|Bra021634 1 MAIRIT--FT----- YSSYVARNIASSAARVVGADV--
Cucsa.232550|Cucsa.232550.1 1 MAIRVT--LS----- YSHVQNLNASSTGLRAGNCR--
Carubv10023541m.g|Carubv10023541m 1 MAIRIT--FT----- YSHVARNLVG--TRVGGGG--
30170.t000351|30170.m013939 1 MAIRVT--FT----- YSGYVAQSIASCAGIRVGNCR--
GRMZM2G107798|GRMZM2G107798.T01 1 MAIRIT--VS----- YSGYVAQNLNASSFGLRCTVA--AGASAAL
GRMZM2G114557|GRMZM2G114557.T03 1 MAIRIT--VS----- YSGYVAQNLNASSFGLRCTAAAAAGAGAP
Eucgr.F00038|Eucgr.F00038.1 1 MAIRVT--FG----- YSHVQNLNATNAGVRLNGCR--
LOC_Os09g28000|LOC_Os09g28000.1 1 MAIRIT--VS----- YSGYVAQSLASSFGLRCSAS--T
PGSC0003DMG401011681|PGSC0003DMT40003049 1 MAIRFT--VT----- YSGYVAQNLNASSASKVVGCR--
GRMZM2G024865|GRMZM2G024865.T01 1 MAIRIT--VS----- YSGYVAQNLNASSLGHFRFSSAS--
Eucgr.F02385|Eucgr.F02385.1 1 MAIRVT--FT----- YSTYVAQAFASNAGLRVGNCR--
Cucsa.123370|Cucsa.123370.1 1 MAIRVT--FS----- YSGYVAQNLNASSAGIRVGNCR--
GSVIVG01009580001|GSVIVT01009580001 1 MAIRVT--FS----- YSGYVAQNLNASSAGIRVGNCR--
LOC_Os03g036400|LOC_Os03g036400.1 1 MAIRVT--FS----- YSGYVAQNLNASSAGIRVGNCR--
Pphat.020G038400|Pphat.020G038400.1 1 MAFEMMYTCTTLVGRQPRECSVRGFFAAVRIKNLCSRGDFDVRGTRCAYSPLKESFTH 60GACASPTTPTPEMFLGPEPRKRYVAPTHAVSSTQRN--CY--
Pphat.023G022200|Pphat.023G022200.1 1 ----- 0 -----
18112|18112 1 ----- 0 -----
Medtr2g059220|Medtr2g059220.1 1 MAIRAT--FS----- FSGYVAQTLVSSASVRV--ANP--
Glyma04g03840|Glyma04g03840.5 1 MAIRVT--FS----- FSGYVAQSLASSAGVRV--ANS--
Medtr3g100960|Medtr3g100960.1 1 MAIRVT--FS----- FSGYVAQNLVSSASVRV--ANS--
86052|86052 1 ----- 0 -----
58024|58024 1 ----- 0 -----
GRMZM2G039930|GRMZM2G039930.T02 1 ----- 0 -----
LOC_Os02g16709|LOC_Os02g16709.1 1 ----- 0 -----
47339|47339 1 ----- 0 -----
Pphat.023G051200|Pphat.023G051200.1 1 ----- 0 -----
272208|272208 1 ----- 0 -----
Bra030640|Bra030640 1 ----- 0 -----
Cre01.g027100|Cre01.g027100.t1.2 1 ----- 0 -----
Vocar20008453m.g|Vocar20008453m 1 ----- 0 -----
GRMZM2G142938|GRMZM2G142938.T01 1 ----- 0 -----
LOC_Os03g05430|LOC_Os03g05430.1 1 ----- 0 -----
Bra029738|Bra029738 1 ----- 0 -----
Carubv10015579m.g|Carubv10015579m 1 ----- 0 -----
Bra034045|Bra034045 1 ----- 0 -----
AT3G08980 1 ----- 0 -----
Medtr5g007850|Medtr5g007850.1 1 ----- 0 -----
Glyma07g18060|Glyma07g18060.1 1 ----- 0 -----
Glyma18g42910|Glyma18g42910.1 1 ----- 0 -----
PGSC0003DMG401008489|PGSC0003DMT40002187 1 ----- 0 -----
PGSC0003DMG401008489|PGSC0003DMT40002187 1 ----- 0 -----
PGSC0003DMG401008489|PGSC0003DMT40002187 1 ----- 0 -----
PGSC0003DMG401008489|PGSC0003DMT40002187 1 ----- 0 -----
Cucsa.176310|Cucsa.176310.1 1 ----- 0 -----
Potri.016G115100|Potri.016G115100.1 1 ----- 0 -----
GSVIVG01033968001|GSVIVT01033968001 1 ----- 0 -----
29701.t000024|29701.m000603 1 ----- 0 -----
Eucgr.A00507|Eucgr.A00507.1 1 ----- 0 -----
Eucgr.A00507|Eucgr.A00507.3 1 ----- 0 -----
Eucgr.A00507|Eucgr.A00507.4 1 ----- 0 -----
GRMZM2G029141|GRMZM2G029141.T01 1 ----- 0 -----
GRMZM2G042164|GRMZM2G042164.T01 1 ----- 0 -----
LOC_Os04g08340|LOC_Os04g08340.1 1 ----- 0 -----
91609|91609 1 ----- 0 -----
Pphat.009G097900|Pphat.009G097900.1 1 ----- 0 -----
CMR333C|CMR333CT 1 ----- 0 -----
CMR326C|CMR326CT 1 ----- 0 -----
Esi0324.0009 1 ----- 0 -----
gi|17543654 1 ----- 0 -----
gi|14211845 1 ----- 0 -----
Medtr8g040010|Medtr8g040010.1 1 ----- 0 -----
Medtr8g040050|Medtr8g040050.1 1 ----- 0 -----
Glyma13g26540|Glyma13g26540.1 1 ----- 0 -----
Glyma13g25940|Glyma13g25940.1 1 ----- 0 -----
Glyma13g26010|Glyma13g26010.1 1 ----- 0 -----
Glyma13g25981|Glyma13g25981.1 1 ----- 0 -----
Medtr8g039980|Medtr8g039980.1 1 ----- 0 -----
Medtr8g039990|Medtr8g039990.1 1 ----- 0 -----
gi|66811204 1 ----- 0 -----
YMR150C 1 ----- 0 -----
YMR035W 1 ----- 0 -----
Esi0009.0118 1 ----- 0 -----
gi|1585|gi|1585.t1 1 ----- 0 -----
Vocar20005047m.g|Vocar20005047m 1 ----- 0 -----
gi|71982173 1 ----- 0 -----
gi|21450679 1 ----- 0 -----
CMB077C|CMB077CT 1 ----- 0 -----
PGSC0003DMG400008317|PGSC0003DMT40002143 1 ----- 0 -----
PGSC0003DMG400008317|PGSC0003DMT40002143 1 ----- 0 -----
Potri.005G092900|Potri.005G092900.1 1 ----- 0 -----
Potri.007G071400|Potri.007G071400.1 1 ----- 0 -----
GSVIVG01021415001|GSVIVT01021415001 1 ----- 0 -----
Cucsa.047590|Cucsa.047590.1 1 ----- 0 -----
29693.t000082|29693.m002044 1 ----- 0 -----
30926.t000080|30926.m001516 1 ----- 0 -----
Eucgr.D00315|Eucgr.D00315.1 1 ----- 0 -----
LOC_Os11g40500|LOC_Os11g40500.1 1 ----- 0 -----
GRMZM2G162274|GRMZM2G162274.T01 1 ----- 0 -----
GRMZM2G066469|GRMZM2G066469.T01 1 ----- 0 -----
GRMZM5G833660|GRMZM5G833660.T01 1 ----- 0 -----
Bra099418|Bra099418 1 ----- 0 -----
Carubv10010493m.g|Carubv10010493m 1 ----- 0 -----
AT1G29960 1 ----- 0 -----
Bra006087|Bra006087 1 ----- 0 -----
Bra008992|Bra008992 1 ----- 0 -----
Carubv10010481m.g|Carubv10010481m 1 ----- 0 -----
Carubv10010481m.g|Carubv10010481m 1 ----- 0 -----
Potri.001G380400|Potri.001G380400.1 1 ----- 0 -----
Glyma13g33660|Glyma13g33660.1 1 ----- 0 -----
Glyma15g39140|Glyma15g39140.1 1 ----- 0 -----
Cucsa.273860|Cucsa.273860.1 1 ----- 0 -----
Eucgr.F03218|Eucgr.F03218.1 1 ----- 0 -----
Eucgr.L03207|Eucgr.L03207.1 1 ----- 0 -----
GSVIVG0104071001|GSVIVT0104071001 1 ----- 0 -----
PGSC0003DMG400007080|PGSC0003DMT40001824 1 ----- 0 -----
Esi0007.0117 1 ----- 0 -----
85448|85448 1 ----- 0 -----
Pphat.012G075300|Pphat.012G075300.1 1 ----- 0 -----

g8013|g8013.t1 141 ----- 140 ----- 140 ---TYRFRREPFGDVIIFHPKKEISPETGQL
Vocar20005591m.g|Vocar20005591m 177 ----- 176 ----- 176 ---TYSFIRPVPVGDVIIFHPKKEISPEBS
GRMZM5G00751|GRMZM5G00751_T03 84 ----- 83 ----- 83 ---TY-LFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GSVIVG01008821001|GSVIVT01008821001 57 ----- 56 ----- 56 ---SY-YFRRPATHEIVFRAVVRIPG---HS---ED
x11429|x11429 139 ----- 138 ----- 138 ---TY-LFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma0535480|Glyma0535480.1 178 ----- 177 ----- 177 ---TY-LFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma0804250|Glyma0804250.1 148 ----- 147 ----- 147 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Medtr8g103470|Medtr8g103470.1 149 ----- 148 ----- 148 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Bra015061|Bra015061 160 ----- 159 ----- 159 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Carubv10014271m.g|Carubv10014271m 169 ----- 168 ----- 168 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Potri.006G157900|Potri.006G157900.1 188 ----- 179 ----- 179 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Potri.018G081800|Potri.018G081800.1 177 ----- 176 ----- 176 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Eucgr.C03817|Eucgr.C03817.1 178 ----- 177 ----- 177 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
PGSC0003DMG40000378|PGSC0003DMT40000102 162 ----- 161 ----- 161 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
29912.t000235|29912.t0005509 171 ----- 170 ----- 170 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
GSVIVG0101537001|GSVIVT0101537001 17 ----- 16 ----- 16 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Carubv10009515m.g|Carubv10009515m 229 ----- 228 ----- 228 ---SY-YFRKPCASDIIVFKSPPVLQE-VGYS
Bra015534|Bra015534 225 ----- 224 ----- 224 ---SY-LFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra031542|Bra031542 219 ----- 218 ----- 218 ---SY-LFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os03g55640|LOC_Os03g55640.1 348 ----- 347 ----- 347 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra021634|Bra021634 195 ----- 194 ----- 194 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Cucsa.232550|Cucsa.232550.1 233 ----- 232 ----- 232 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Carubv10023541m.g|Carubv10023541m 253 ----- 252 ----- 252 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
30170.t000351|30170.m013939 326 ----- 325 ----- 325 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G107798|GRMZM2G107798_T01 341 ----- 340 ----- 340 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G114557|GRMZM2G114557_T03 240 ----- 239 ----- 239 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.F00038|Eucgr.F00038.1 276 ----- 275 ----- 275 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os09g28000|LOC_Os09g28000.1 237 ----- 236 ----- 236 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
PGSC0003DMG401011681|PGSC0003DMT40003049 261 ----- 260 ----- 260 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G024865|GRMZM2G024865_T01 212 ----- 211 ----- 211 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.F02385|Eucgr.F02385.1 237 ----- 236 ----- 236 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Cucsa.123370|Cucsa.123370.1 17 ----- 16 ----- 16 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GSVIVG01009580001|GSVIVT01009580001 244 ----- 244 ----- 244 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Potri.014G036400|Potri.014G036400.1 295 ----- 294 ----- 294 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Phpat.02G0302200|Phpat.02G0302200.1 152 ----- 151 ----- 151 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
18112|18112 16 ----- 15 ----- 15 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr2g059220|Medtr2g059220.1 212 ----- 211 ----- 211 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma04g03840|Glyma04g03840.1 225 ----- 224 ----- 224 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr3g100960|Medtr3g100960.1 238 ----- 237 ----- 237 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
86052|86052 17 ----- 16 ----- 16 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
58024|58024 157 ----- 156 ----- 156 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G039930|GRMZM2G039930_T02 158 ----- 157 ----- 157 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os02g16709|LOC_Os02g16709.1 156 ----- 155 ----- 155 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
47339|47339 78 ----- 77 ----- 77 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Phpat.023G051200|Phpat.023G051200.1 168 ----- 167 ----- 167 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
27208|27208 73 ----- 72 ----- 72 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra030640|Bra030640 78 ----- 77 ----- 77 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Cre01.g027100|Cre01.g027100.t1.2 58 ----- 57 ----- 57 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Vocar20008453m.g|Vocar20008453m 54 ----- 53 ----- 53 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G142938|GRMZM2G142938_T01 24 ----- 23 ----- 23 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os03g05430|LOC_Os03g05430.1 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra029738|Bra029738 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Carubv10015579m.g|Carubv10015579m 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra034045|Bra034045 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
AT3G08980 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr5g007850|Medtr5g007850.1 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma07g18060|Glyma07g18060.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma18g42910|Glyma18g42910.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
PGSC0003DMG401008489|PGSC0003DMT40002187 6 ----- 5 ----- 5 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
PGSC0003DMG401008489|PGSC0003DMT40002187 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
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Cucsa.176310|Cucsa.176310.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Potri.016G115100|Potri.016G115100.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GSVIVG01033968001|GSVIVT01033968001 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
29701.t000024|29701.m000603 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.A00507|Eucgr.A00507.1 119 ----- 118 ----- 118 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.A00507|Eucgr.A00507.3 60 ----- 59 ----- 59 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.A00507|Eucgr.A00507.4 60 ----- 59 ----- 59 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G02914|GRMZM2G02914_T01 58 ----- 57 ----- 57 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G042164|GRMZM2G042164_T01 59 ----- 58 ----- 58 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os04g08340|LOC_Os04g08340.1 60 ----- 59 ----- 59 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
91609|91609 59 ----- 58 ----- 58 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Phpat.009G097900|Phpat.009G097900.1 68 ----- 67 ----- 67 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
CMR33C|CMR33C 71 ----- 70 ----- 70 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
CMR326C|CMR326C 71 ----- 70 ----- 70 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Esi0324.0009 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
gi|17543654 59 ----- 58 ----- 58 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
gi|14211845 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr8g040010|Medtr8g040010.1 48 ----- 47 ----- 47 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr8g040050|Medtr8g040050.1 178 ----- 177 ----- 177 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma13g26540|Glyma13g26540.1 67 ----- 66 ----- 66 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma13g25940|Glyma13g25940.1 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma13g26010|Glyma13g26010.1 62 ----- 61 ----- 61 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Glyma13g25981|Glyma13g25981.1 19 ----- 18 ----- 18 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr8g039980|Medtr8g039980.1 61 ----- 60 ----- 60 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Medtr8g039990|Medtr8g039990.1 61 ----- 60 ----- 60 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
gi|66811204 125 ----- 124 ----- 124 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
YMR150C 59 ----- 58 ----- 58 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
YMR035W 64 ----- 63 ----- 63 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Esi0009.0118 130 ----- 129 ----- 129 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
g11585|g11585.t1 69 ----- 68 ----- 68 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Vocar20005047m.g|Vocar20005047m 71 ----- 70 ----- 70 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
gi|71982173 26 ----- 25 ----- 25 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
gi|21450679 58 ----- 57 ----- 57 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
CMB077C|CMB077C 67 ----- 66 ----- 66 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
PGSC0003DMG400008317|PGSC0003DMT40002143 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
PGSC0003DMG400008317|PGSC0003DMT40002143 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Potri.005G092900|Potri.005G092900.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Potri.007G071400|Potri.007G071400.1 111 ----- 110 ----- 110 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GSVIVG01021415001|GSVIVT01021415001 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Cucsa.047590|Cucsa.047590.1 67 ----- 66 ----- 66 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
29693.t000082|29693.m002044 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
30026.t000080|30026.m001516 64 ----- 63 ----- 63 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Eucgr.D00315|Eucgr.D00315.1 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
LOC_Os11g40500|LOC_Os11g40500.1 70 ----- 69 ----- 69 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G162274|GRMZM2G162274_T01 70 ----- 69 ----- 69 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM2G066469|GRMZM2G066469_T01 70 ----- 69 ----- 69 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
GRMZM5G833660|GRMZM5G833660_T01 19 ----- 18 ----- 18 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra009418|Bra009418 63 ----- 62 ----- 62 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Carubv10010493m.g|Carubv10010493m 63 ----- 62 ----- 62 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
AT1G29960 66 ----- 65 ----- 65 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra006087|Bra006087 67 ----- 66 ----- 66 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Bra008992|Bra008992 67 ----- 66 ----- 66 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Carubv10010481m.g|Carubv10010481m 69 ----- 68 ----- 68 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Carubv10010481m.g|Carubv10010481m 19 ----- 18 ----- 18 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
Potri.001G380400|Potri.001G380400.1 61 ----- 60 ----- 60 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
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Esi0007.0117 35 ----- 34 ----- 34 ---SY-VFRFRPISGDIIVFKKVPVAVQV-YGVN---K
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V21429|12429
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Medtr8g103470|Medtr8g103470.1
Bra015061|Bra015061
Carubv10014271m.g|Carubv10014271m
Potri.0066157900|Potri.0066157900.1
Potri.0066160000|Potri.0066160000.1
Potri.018081800|Potri.018081800.1
Eucgr.0038177|Eucgr.0038177
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29912.t000235|29912.m005509
GSVIVG0101537001|GSVIVT0101537001
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Bra015534|Bra015534
Bra031542|Bra031542
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Bra021634|Bra021634
Cucsa.232550|Cucsa.232550.1
Carubv10023541m.g|Carubv10023541m
30170.t000351|30170.m01399
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Cucsa.123370|Cucsa.123370.1
GSVIVG01009580001|GSVIVT01009580001
Potri.0149036400|Potri.0149036400.1
Phpat.020G03400|Phpat.020G03400.1
Phpat.023G022200|Phpat.023G022200.1
18112|18112
Medtr2g059220|Medtr2g059220.T02
Glyma04g03840|Glyma04g03840.5
Medtr3g100960|Medtr3g100960.1
86052|86052
58024|58024
GRMZ2G039930|GRMZ2G039930.T02
LOC_0e02g16709|LOC_0e02g16709.1
47339|47339
Phpat.023G051200|Phpat.023G051200.1
27208|27208
Bra030640|Bra030640
Cre01.g027100|Cre01.g027100.t1.2
Vocar20008453m.g|Vocar20008453m
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LOC_0e03g05430|LOC_0e03g05430.1
Bra029738|Bra029738
Carubv10015579m.g|Carubv10015579m
Bra034045|Bra034045
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Medtr5g007850|Medtr5g007850.1
Glyma07g18060|Glyma07g18060.1
Glyma18g4200|Glyma18g4200.1
PGSC0003DMG401008489|PGSC0003DMT40002187
PGSC0003DMG401008489|PGSC0003DMT40002187
PGSC0003DMG401008489|PGSC0003DMT40002187
Cucsa.176310|Cucsa.176310.1
Potri.016G11800|Potri.016G11500.1
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Eucgr.A00507|Eucgr.A00507.3
Eucgr.A00507|Eucgr.A00507.4
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GRMZ2G042164|GRMZ2G042164.T01
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CMR33C|CMR33C
CMR32C|CMR32C
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gi|14211845
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Glyma13g26500|Glyma13g26500.1
Glyma13g25940|Glyma13g25940.1
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Glyma13g25981|Glyma13g25981.1
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gi|21450679
CMB077C|CMB077C
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PGSC0003DMG400008317|PGSC0003DMT40002143
Potri.005G092900|Potri.005G092900.1
Potri.007G071400|Potri.007G071400.1
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Cucsa.047590|Cucsa.047590.1
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Eucgr.D00315|Eucgr.D00315.1
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GRMZ2G5833660|GRMZ2G5833660.T01
Bra009418|Bra009418
Carubv10010493m.g|Carubv10010493m
AT1029960
Bra006087|Bra006087
Bra008992|Bra008992
Carubv10010481m.g|Carubv10010481m
Carubv10010481m.g|Carubv10010481m
Potri.001G380400|Potri.001G380400.1
Glyma13g33660|Glyma13g33660.1
Glyma15g39140|Glyma15g39140.1
Cucsa.273860|Cucsa.273860.1
Eucgr.F03218|Eucgr.F03218.1
Eucgr.F03207|Eucgr.F03207.1
GSVIVG01014071001|GSVIVT01014071001
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85448|85448
Phpat.012G075300|Phpat.012G075300.1

170 GFLADDNVYIKRVAVEGDITVNRGRY 198VNGVARESEFFIAESP--LYEM-PRL-----LVPP----- 224
204 --HFGDNVYIKRVAVEGDITVNRGRY 231VNGVARESEFFIAEQP--LYEM-PKL-----VVPP----- 257
112 DVVFIKRVLVAPGDIIVRGGQLI 135VNGVALKEHYAATS--LYTM-EAM-----RVPE----- 161
84 HFFIKRVLVAPGDIIVRGGQLI 106VNGVDITBEDFLEQP--NYIL-DIT-----YVFK----- 132
81 VVVFIKRVLVAPGDIIVRGGQLI 135VNGVARESEFFIAEQP--LYEM-PKL-----VVPP----- 129
175 ---DDDFIKRVLVAKAGDIVEVRGKGL 199VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 223
176 ---DDDFIKRVLVAKAGDIVEVRGKGL 200VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 225
187 ---DDDFIKRVLVAKAGDIVEVRGKGL 211VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 226
195 T---DADVFIKRVLVAKAGDIVEVRGKGL 220VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 237
26 T---DADVFIKRVLVAKAGDIVEVRGKGL 220VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 246
206 ---DDDFIKRVLVAKAGDIVEVRGKGL 231VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 257
203 T---DDDFIKRVLVAKAGDIVEVRGKGL 228VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 261
204 T---DDDFIKRVLVAKAGDIVEVRGKGL 229VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 261
188 T---DDDFIKRVLVAKAGDIVEVRGKGL 213VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 239
197 T---DDDFIKRVLVAKAGDIVEVRGKGL 222VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 248
47 VFKRVLVAKAGDIVEVRGKGL 68VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 94
20 LE-HGY--CTDFIKRVLVAKAGDIVEVRGKGL 276VNDTQVDEDFLEFP--NYEM-EPM-----FVPE----- 306
44 T---DDDFIKRVLVAKAGDIVEVRGKGL 280VNDTQVDEDFLEFP--NYEM-EPM-----FVPE----- 302
240 VE-HGY--CTDFIKRVLVAKAGDIVEVRGKGL 270VNDTQVDEDFLEFP--NYEM-EPM-----FVPE----- 296
369 QA-LGCS---SDVFIKRVLVAKAGDIVEVRGKGL 399VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 425
296 E-DGCM---PNDVFIKRVLVAKAGDIVEVRGKGL 325VNDTQVDEDFLEFP--NYEM-EPM-----FVPE----- 351
254 VD-FGVS---SDVFIKRVLVAKAGDIVEVRGKGL 284VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 310
Carubv10023541m.g|Carubv10023541m
274 QE-HGYS---SDVFIKRVLVAKAGDIVEVRGKGL 304VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 330
347 QA-LGYN---SDVFIKRVLVAKAGDIVEVRGKGL 377VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 403
262 QA-LGYS---SDVFIKRVLVAKAGDIVEVRGKGL 392VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 418
361 QEYFGS---SADVFIKRVLVAKAGDIVEVRGKGL 292VNSIAQDEDFLEFP--NYEM-EPM-----FVPE----- 318
297 QD-WGYS---SDVFIKRVLVAKAGDIVEVRGKGL 327VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 353
258 QD-WGYS---SDVFIKRVLVAKAGDIVEVRGKGL 289VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 315
282 QD-WGYS---SDVFIKRVLVAKAGDIVEVRGKGL 312VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 338
233 QD-WGYS---SDVFIKRVLVAKAGDIVEVRGKGL 263VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 289
258 QD-HGYK---SNDVFIKRVLVAKAGDIVEVRGKGL 288VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 314
47 VFKRVLVAKAGDIVEVRGKGL 68VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 94
266 QE-FGYS---SDVFIKRVLVAKAGDIVEVRGKGL 396VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 322
313 KLE-FGYS---SDVFIKRVLVAKAGDIVEVRGKGL 346VNDTQVDEDFLEFP--NYEM-EPM-----FVPE----- 372
179 ---PFEVFIKRVVAMAGDVLVQVINGKLV 203VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 229
49 IFVKRVLVAKAGDIVEVRGKGL 70VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 96
234 E-FGYS---SDVFIKRVLVAKAGDIVEVRGKGL 263VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 289
246 E-FGYS---SDVFIKRVLVAKAGDIVEVRGKGL 276VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 302
259 KA-YGYS---SDVFIKRVLVAKAGDIVEVRGKGL 289VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 315
44 LFKRVLVAKAGDIVEVRGKGL 65VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 91
46 HFFIKRVLVAKAGDIVEVRGKGL 108VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 134
182 GYT---DNDVFIKRVLVAKAGDIVEVRGKGL 209VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 235
180 GYT---DNDVFIKRVLVAKAGDIVEVRGKGL 207VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 233
106 GDFVFIKRVVAMAGDVLVQVINGKLV 129VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 155
191 KGH-FGYS---SDVFIKRVLVAKAGDIVEVRGKGL 219VNGVARESEFFIAEQP--LYEM-KPT-----RVPE----- 245
272ALVRRVVAALGDEGLVSDTDE 114-----KD-EFF-----LLKK----- 123
98 THKVLVRLAALGDEGLVSDTDE 119-----KD-EFF-----LLKK----- 128
90 QQLVKKRILALGDEGLVSDTDE 98-----QH-KPT-----KIPQ----- 107
46 MLVKRILALGDEGLVSDTDE 63-----SL-NPT-----KIFE----- 72
83 KLFVKKRILALGDEGLVSDTDE 101-----TR-KPT-----KIFE----- 108
70 HFFIKRVLVAKAGDIVEVRGKGL 69-----R-DVI-----RVPE----- 69
83 DRVFKRVLVAKAGDIVEVRGKGL 100-----E-DVI-----RVPE----- 108
83 DRVFKRVLVAKAGDIVEVRGKGL 100-----R-DVI-----RVPE----- 108
83 ETKRILALGDEGLVSDTDE 101-----NO-DVI-----RVPE----- 110
87 HFFIKRVLVAKAGDIVEVRGKGL 105-----XN-DVI-----RVPE----- 114
87 ETKRILALGDEGLVSDTDE 105-----XN-DVI-----RVPE----- 114
30 TKRILALGDEGLVSDTDE 45-----Y-DAV-----VIPE----- 53
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 113
81 LKNKRRILALGDEGLVSDTDE 80-----Y-DAV-----VIPE----- 80
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 113
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 113
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 112
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 114
87 LKNKRRILALGDEGLVSDTDE 105-----Y-DAV-----VIPE----- 114
138 ---HREKHKRILALGDEGLVSDTDE 158-----MD-DVL-----KVPE----- 167
81 LKNKRRILALGDEGLVSDTDE 99-----MD-DVL-----KVPE----- 108
81 LKNKRRILALGDEGLVSDTDE 99-----MD-DVL-----KVPE----- 108
81 LKNKRRILALGDEGLVSDTDE 94-----KR-DIR-----KVPE----- 103
80 HLLVKKRILALGDEGLVSDTDE 98-----KQ-EIQ-----KVPE----- 107
81 HLLVKKRILALGDEGLVSDTDE 99-----AQ-EIR-----KVPE----- 108
80 YMWVKKRILALGDEGLVSDTDE 98-----KR-ELV-----KVPE----- 107
89 MWLVKKRILALGDEGLVSDTDE 107-----TY-DIL-----KVPE----- 116
93 KRVVKKRILALGDEGLVSDTDE 111-----TG-KFY-----KVPE----- 120
93 KRVVKKRILALGDEGLVSDTDE 106-----TG-KFY-----KVPE----- 120
87 BRVVKRILALGDEGLVSDTDE 106-----KH-NLM-----KVPE----- 115
78 AVH-KRVLVAKAGDIVEVRGKGL 97-----PE-LIT-----DAPK----- 106
87 QKH-KRVLVAKAGDIVEVRGKGL 106-----KN-RYV-----KVPE----- 115
69 HFFIKRVLVAKAGDIVEVRGKGL 89-----GN-GYKHE-AV-----LGLN----- 102
197 HFFIKRVLVAKAGDIVEVRGKGL 110-----GN-GYKHE-AV-----LGLN----- 102
88 HFMTKRVVGLGDSVYISNPET 110VELEGDSPTTHISSLDN-GKSK-TI-----VVEK----- 137
83 HFMTKRVVGLGDSVYISNPET 105VELEGDSPTTHISSPDN-GKSK-TI-----VVEK----- 132
83 HFMTKRVVGLGDSVYISNPET 105VELEGDSPTTHISSPDN-GKSK-TI-----VVEK----- 132
41 FMTKRVVGLGDSVYISNPET 62VELEGDSPTTHISSPDN-GKSK-TI-----VVEK----- 89
82 MCTKRVVGLGDSVYISNPET 102-----NK-DKQK-TV-----VVEK----- 115
82 HSGKRVVGLGDSVYISNPET 102-----GN-GYKHE-TV-----VVEK----- 115
213 ---PFIKRVVAMAGDVLVQVINGKLV 231-----P-KN-SRRTV-----EYV-----EVPK----- 241
80 HRIKRVVGLGDSVYISNPET 102N-----YVG-----DVLVDEFRFGTYI-----KVPE----- 123
87 KVVKRVVGLGDSVYISNPET 106-----Y-PK-----PQV-----NLER----- 116
149 ---TGRVVKRVLVAKAGDIVEVRGKGL 173V-----Y-NS-----OGIEKRSE-----VVPE----- 189
91 HFFIKRVLVAKAGDIVEVRGKGL 110-----RE-HNEVR-RV-----KVPE----- 123
92 HFFIKRVLVAKAGDIVEVRGKGL 111-----RE-HNEVR-RV-----KVPE----- 124
47 HFFIKRVLVAKAGDIVEVRGKGL 66-----P-KN-SRRTV-----EYV-----EVPK----- 73
79 SNIKRVVGLGDSVYISNPET 98-----SDFKSHS-----YVPM----- 110
88 MSVCKRVVGLGDSVYISNPET 110A-----MFQIH-PEIVERTYGSFV-----NHS----- 133
87 KIVKRVVGLGDSVYISNPET 106-----HAN-NGIEH-TI-----VVEK----- 120
87 KIVKRVVGLGDSVYISNPET 106-----HAN-NGIEH-TI-----VVEK----- 120
87 KIVKRVVGLGDSVYISNPET 106-----PKN-SRRTV-----EYV-----EVPK----- 120
130 ---PRIKRVVAMAGDVLVQVINGKLV 151-----PKN-SRRTV-----EYV-----EVPK----- 165
87 KIIKRVVGLGDSVYISNPET 106-----PKD-SRRTV-----EYV-----EVPK----- 120
88 KVVKRVVGLGDSVYISNPET 107-----PKN-SRRTV-----EYV-----EVPK----- 121
87 RIVKRVVGLGDSVYISNPET 106-----PKN-SRRTV-----EYV-----EVPK----- 120
85 RIVKRVVGLGDSVYISNPET 104-----PKN-SRRTV-----EYV-----EVPK----- 118
87 KVVKRVVGLGDSVYISNPET 110-----PKN-SRRTV-----EYV-----EVPK----- 120
91 KVVKRVVGLGDSVYISNPET 110-----PKN-SRRTV-----EYV-----EVPK----- 124
91 KVVKRVVGLGDSVYISNPET 110-----PKN-SRRTV-----EYV-----EVPK----- 123
81 SVVKRVVGLGDSVYISNPET 59-----PGK-SRRTV-----EYV-----EVPK----- 73
80 KLPKRVVGLGDSVYISNPET 99-----PGK-NDSR-TV-----VVEK----- 113
84 KLPKRVVGLGDSVYISNPET 103-----PKN-SRRTV-----EYV-----EVPK----- 117
87 KLPKRVVGLGDSVYISNPET 106-----SKK-SRRTV-----EYV-----EVPK----- 120
88 KVVKRVVGLGDSVYISNPET 107-----PLV-GDSV-NV-----VVEK----- 121
88 RMVVKRVVGLGDSVYISNPET 107-----PLV-GDSV-NV-----VVEK----- 121
90 RMVVKRVVGLGDSVYISNPET 109-----PLV-GDSV-NV-----VVEK----- 123
41 MTKRILALGDEGLVSDTDE 59-----PLV-GDSV-NV-----VVEK----- 73
82 KVVKRVVGLGDSVYISNPET 101-----PKN-SRRTV-----EYV-----EVPK----- 115
81 MTKRILALGDEGLVSDTDE 103-----PLH-SRRTV-----EYV-----EVPK----- 120
41 RLMKRVVGLGDSVYISNPET 55-----ALH-SKAAQ-VA-----VVEK----- 69
82 KMLKRVVGLGDSVYISNPET 101-----PAN-SNOYQ-SA-----VVEK----- 115
88 KSLTKRVVAMAGDIVEVRGKGL 107-----PRN-SRRTV-TI-----VVEK----- 121
88 KSLTKRVVAMAGDIVEVRGKGL 107-----PRN-SRRTV-TI-----VVEK----- 121
88 KSLTKRVVAMAGDIVEVRGKGL 107-----PRN-SRRTV-TI-----VVEK----- 121
46 KVVKRVVGLGDSVYISNPET 65-----PKN-SRRTV-----EYV-----EVPK----- 79
56 LRVKRVVGLGDSVYISNPET 75-----SW-FDDR-PE-----KVPE----- 87
46 MVVKRVVGLGDSVYISNPET 65-----KGG-STFY-HL-----QVPE----- 79
81 LVVKRVVGLGDSVYISNPET 100-----SS-RGHIR-OT-----VVEK----- 113

g8013 g8013.t1	292	S	292S*	293	---
Vocar20005591m.g Vocar20005591m	318	---	---	317	---
GRMZM5G000751 GRMZM5G000751.T03	203	---	---	202	---
GSVIVG01008821001 GSVIVT01008821001	174	---	---	173	---
Vt1429 12429	187	---	---	186	---
Glyma05g35480 Glyma05g35480.1	292	S	290Q*	291	---
Glyma08g04250 Glyma08g04250.1	292	S	292Q*	293	---
Medtr8g103470 Medtr8g103470.1	293	*	292	292	---
Bra015061 Bra015061	294	---	293	293	---
Carubv10014271m.g Carubv10014271m	302	---	301	301	---
Potri.006G157900 Potri.006G157900.1	320	---	319	319	---
Potri.006G160000 Potri.006G160000.1	320	---	319	319	---
Potri.018G081800 Potri.018G081800.1	324	---	323	323	---
Eucgr.C03817 Eucgr.C03817.1	321	QP	322EASTQ*	327	---
PGSC0003DMG400000378 PGSC0003DMT40000102	305	*	304	304	---
29912.t000235 29912.m005509	314	---	313	313	---
GSVIVG01015377001 GSVIVT01015377001	166	LSV	SWSLTH*	175	---
Carubv10009515m.g Carubv10009515m	352	---	VDV 364S*	365	---
Bra015534 Bra015534	359	---	VDV 361S*	362	---
Bra031542 Bra031542	353	---	VDI 355S*	356	---
LOC_Os03g55640 LOC_Os03g55640.1	471	---	470	470	---
Bra021634 Bra021634	409	---	V 409S*	410	---
Cucsa.232550 Cucsa.232550.1	366	---	GI 367S*	368	---
Carubv10023541m.g Carubv10023541m	326	---	VA-V 348S*	349	---
30170.t000351 30170.m013939	392	---	VATL 395SRA-KHFTFWIYVLLNL	AIDELDRQESRLLASQAVDVSNINNAMNC	441RRLPCSLIFLLFQTLPTLLILAINIPDPNHHTMN
GRMZM2G107798 GRMZM2G107798.T01	457	---	TAAA 460S*	461	---
GRMZM2G114557 GRMZM2G114557.T03	472	---	TAVA 475S*	476	---
Eucgr.F00038 Eucgr.F00038.1	372	---	DVVS 375*	375	---
LOC_Os09g28000 LOC_Os09g28000.1	407	---	VAGL 410S*	411	---
PGSC0003DMG401011681 PGSC0003DMT40003049	369	---	VVAV 372S*	373	---
GRMZM2G024865 GRMZM2G024865.T01	392	---	TVPS 395S*	396	---
Eucgr.F02385 Eucgr.F02385.1	343	---	AISF 346S*	347	---
Cucsa.123370 Cucsa.123370.1	368	---	VS* 369	369	---
GSVIVG01009580001 GSVIVT01009580001	153	---	---	152	---
Potri.014G036400 Potri.014G036400.1	435	---	AIS* 378	378	---
Phpat.02G038400 Phpat.02G038400.1	435	---	ETT 438S*	439	---
Phpat.023G022200 Phpat.023G022200.1	295	I	295S*	296	---
18112 18112	134	---	---	133	---
Medtr2g059220 Medtr2g059220.1	345	---	---	344	---
Glyma04g03840 Glyma04g03840.5	358	---	PVAI 361S*	362	---
Medtr3g100960 Medtr3g100960.1	371	---	SVAV 374S*	375	---
86052 86052	144	---	---	143	---
58024 58024	174	---	---	173	---
GRMZM2G039930 GRMZM2G039930.T02	294	PESL	297TDV-KSTK*	304	---
LOC_Os02g16709 LOC_Os02g16709.1	289	SSL	291IDV-KLAK*	298	---
47339 47339	203	---	---	202	---
Phpat.023G051200 Phpat.023G051200.1	300	LTPV	303LPL-LQAQSAMR	PS*	316
272208 272208	194	3LRKQA*	---	198	---
Bra030640 Bra030640	199	BLAKDKA*	---	205	---
Cre01.g027100 Cre01.g027100.t1.2	174	---	---	173	---
Vocar20008453m.g Vocar20008453m	222	---	WLCG	GEME	AL
GRMZM2G142938 GRMZM2G142938.T01	100	---	---	AGWIMSHDS	240GRVYVE
LOC_Os03g05430 LOC_Os03g05430.1	167	---	---	99	VLPFLEVDS-DDATSTVDEFNPYTTADALSAPAE
Bra029738 Bra029738	179	---	---	---	---
Carubv10015579m.g Carubv10015579m	90	---	---	---	---
Bra034045 Bra034045	155	---	---	---	---
AT3G08980	155	---	---	---	---
Medtr5g007850 Medtr5g007850.1	166	---	---	---	---
Glyma07g18060 Glyma07g18060.1	171	---	---	---	---
Glyma18g42910 Glyma18g42910.1	170	---	---	---	---
PGSC0003DMG401008489 PGSC0003DMT40002187	92	---	---	91	---
PGSC0003DMG401008489 PGSC0003DMT40002187	152	---	---	151	---
PGSC0003DMG401008489 PGSC0003DMT40002187	81	---	---	80	---
PGSC0003DMG401008489 PGSC0003DMT40002187	169	---	---	168	---
Cucsa.176310 Cucsa.176310.1	185	---	---	184	---
Potri.016G115100 Potri.016G115100.1	170	---	---	169	---
GSVIVG01033968001 GSVIVT01033968001	171	---	---	170	---
29701.t000024 29701.m000603	171	---	---	170	---
Eucgr.A00507 Eucgr.A00507.1	230	Y	230	230	---
Eucgr.A00507 Eucgr.A00507.3	172	---	---	171	---
Eucgr.A00507 Eucgr.A00507.4	172	---	---	171	---
GRMZM2G029142 GRMZM2G029142.T01	169	---	---	168	---
GRMZM2G042164 GRMZM2G042164.T01	149	---	---	148	---
LOC_Os04g08340 LOC_Os04g08340.1	165	---	---	164	---
91609 91609	170	---	---	169	---
Phpat.009G097900 Phpat.009G097900.1	181	---	---	180	---
CMR33C CMR33CCT	193	AKSATK*	---	199	---
CMR326C CMR326CCT	176	AKSATK*	---	199	---
Esi0324.0009	176	---	---	175	---
gi 17543654	153	---	---	152	---
gi 14211845	176	---	---	175	---
Medtr8g040010 Medtr8g040010.1	185	QHSE	LTF*	191	---
Medtr8g040050 Medtr8g040050.1	243	---	---	242	---
Glyma13g25940 Glyma13g25940.1	185	---	---	184	---
Glyma13g25940 Glyma13g25940.1	180	---	---	179	---
Glyma13g26010 Glyma13g26010.1	180	---	---	179	---
Glyma13g25981 Glyma13g25981.1	98	---	---	97	---
Medtr8g039980 Medtr8g039980.1	163	---	---	162	---
Medtr8g039990 Medtr8g039990.1	179	---	---	178	---
gi 66811204	298	---	---	298	---
YMR150C	178	---	---	177	---
YMR035W	178	---	---	177	---
Esi0009.0118	235	---	---	234	---
g11585 g11585.t1	176	---	---	175	---
Vocar20005047m.g Vocar20005047m	176	---	---	175	---
gi 71982173	133	---	---	132	---
gi 21450679	167	---	---	166	---
CMB077C CMB077CT	179	---	---	178	---
PGSC0003DMG400008317 PGSC0003DMT40002143	162	---	---	161	---
PGSC0003DMG400008317 PGSC0003DMT40002143	170	---	---	169	---
Potri.005G092900 Potri.005G092900.1	172	---	---	171	---
Potri.007G071400 Potri.007G071400.1	217	---	---	216	---
GSVIVG01021415001 GSVIVT01021415001	184	---	---	183	---
Cucsa.047590 Cucsa.047590.1	176	---	---	175	---
29693.t000082 29693.m002044	177	---	---	176	---
30026.t000080 30026.m001516	159	---	---	158	---
Eucgr.D00315 Eucgr.D00315.1	173	---	---	172	---
LOC_Os1g40500 LOC_Os1g40500.1	193	---	---	192	---
GRMZM2G162274 GRMZM2G162274.T01	129	---	---	128	---
GRMZM2G066469 GRMZM2G066469.T01	177	---	---	176	---
GRMZM5G833660 GRMZM5G833660.T01	125	---	---	124	---
Bra009418 Bra009418	164	---	---	163	---
Carubv10010493m.g Carubv10010493m	167	---	---	166	---
AT1G29960	170	---	---	169	---
Bra006087 Bra006087	146	---	---	145	---
Bra008992 Bra008992	167	---	---	166	---
Carubv10010481m.g Carubv10010481m	169	---	---	168	---
Carubv10010481m.g Carubv10010684m	119	---	---	118	---
Potri.001G380400 Potri.001G380400.1	174	---	---	173	---
Glyma13g33660 Glyma13g33660.1	167	---	---	166	---
Glyma15g39140 Glyma15g39140.1	115	---	---	114	---
Cucsa.273860 Cucsa.273860.1	162	---	---	161	---
Eucgr.F03218 Eucgr.F03218.1	168	---	---	167	---
Eucgr.L03207 Eucgr.L03207.1	168	---	---	167	---
GSVIVG01014071001 GSVIVT01014071001	174	---	---	173	---
PGSC0003DMG400007080 PGSC0003DMT40001824	159	---	---	158	---
Esi0007.0117	132	---	---	131	---
85448 85448	132	---	---	131	---
Phpat.012G075300 Phpat.012G075300.1	164	---	---	163	---

g8013 g8013.t1	294	293	293
Vocar20005591m.g Vocar20005591m	318	317	317
GRMZM5G0800751 GRMZM5G0800751_T03	203	202	202
GSVIVG01008821001 GSVIVT01008821001	174	173	173
Vt1429 121429	174	186	186
Glyma05g35480 Glyma05g35480.1	292	291	291
Glyma08g04250 Glyma08g04250.1	294	293	293
Medtr8g103470 Medtr8g103470.1	293	292	292
Bra015061 Bra015061	294	293	293
Carubv10014271m.g Carubv10014271m	302	301	301
Potri.006G157900 Potri.006G157900.1	320	319	319
Potri.006G160000 Potri.006G160000.1	329	328	328
Potri.018G081800 Potri.018G081800.1	324	323	323
Eucgr.C03817 Eucgr.C03817.1	328	327	327
PGSC0003DMG40000378 PGSC0003DMT40000102	305	304	304
29912.t000235 29912.m005509	314	313	313
GSVIVG01015377001 GSVIVT01015377001	175	175	175
Carubv10009515m.g Carubv10009515m	366	365	365
Bra015534 Bra015534	363	362	362
Bra031542 Bra031542	357	356	356
LOC_Os03g55640 LOC_Os03g55640.1	471	470	470
Bra021634 Bra021634	411	410	410
Cucsa.232550 Cucsa.232550.1	369	368	368
Carubv10023541m.g Carubv10023541m	320	319	319
30170.t000351 30170.m013939	476	475	475
GRMZM2G107798 GRMZM2G107798_T01	462	461	461
GRMZM2G114557 GRMZM2G114557_T03	477	476	476
Eucgr.F00038 Eucgr.F00038.1	376	375	375
LOC_Os09g28000 LOC_Os09g28000.1	412	411	411
PGSC0003DMG401011681 PGSC0003DMT40003049	374	373	373
GRMZM2G024865 GRMZM2G024865_T01	397	396	396
Eucgr.F02385 Eucgr.F02385.1	348	347	347
Cucsa.123370 Cucsa.123370.1	370	369	369
GSVIVG01009580001 GSVIVT01009580001	153	152	152
Potri.014G036400 Potri.014G036400.1	412	411	411
Phpat.020G038400 Phpat.020G038400.1	440	439	439
Phpat.023G022200 Phpat.023G022200.1	297	296	296
18112 18112	134	133	133
Medtr2g059220 Medtr2g059220.1	345	344	344
Glyma04g03840 Glyma04g03840.5	363	362	362
Medtr3g100960 Medtr3g100960.1	376	375	375
86052 86052	144	143	143
58024 58024	174	173	173
GRMZM2G039930 GRMZM2G039930_T02	305	304	304
LOC_Os02g16709 LOC_Os02g16709.1	299	298	298
47339 47339	203	202	202
Phpat.023G051200 Phpat.023G051200.1	311	310	310
272208 272208	199	198	198
Bra030640 Bra030640	206	205	205
Cre01.g027100 Cre01.g027100.t1.2	174	173	173
Vocar20008453m.g Vocar20008453m	280	279	279
GRMZM2G142938 GRMZM2G142938_T01	100	99	99
LOC_Os03g05430 LOC_Os03g05430.1	167	166	166
Bra029738 Bra029738	209	208	208
Carubv10015579m.g Carubv10015579m	90	89	89
Bra034045 Bra034045	155	154	154
AT3G08980	155	154	154
Medtr5g007850 Medtr5g007850.1	166	165	165
Glyma07g18060 Glyma07g18060.1	171	170	170
Glyma18g42910 Glyma18g42910.1	170	169	169
PGSC0003DMG401008489 PGSC0003DMT40002187	92	91	91
PGSC0003DMG401008489 PGSC0003DMT40002187	152	151	151
PGSC0003DMG401008489 PGSC0003DMT40002187	81	80	80
PGSC0003DMG401008489 PGSC0003DMT40002187	169	168	168
Cucsa.176310 Cucsa.176310.1	185	184	184
Potri.016G115100 Potri.016G115100.1	172	171	171
GSVIVG01033968001 GSVIVT01033968001	171	170	170
29701.t000024 29701.m000603	171	170	170
Eucgr.A00507 Eucgr.A00507.1	231	230	230
Eucgr.A00507 Eucgr.A00507.3	172	171	171
Eucgr.A00507 Eucgr.A00507.4	172	171	171
GRMZM2G02924 GRMZM2G02924_T01	169	168	168
GRMZM2G042164 GRMZM2G042164_T01	149	148	148
LOC_Os04g08340 LOC_Os04g08340.1	165	164	164
91609 91609	170	169	169
Phpat.009G097900 Phpat.009G097900.1	181	180	180
CMR33C CMR33CT	200	199	199
CMR326C CMR326CT	200	199	199
Esi0324.0009	176	175	175
gi 17543654	153	152	152
gi 14211845	176	175	175
Medtr8g040010 Medtr8g040010.1	192	191	191
Medtr8g040050 Medtr8g040050.1	243	242	242
Glyma13g26540 Glyma13g26540.1	185	184	184
Glyma13g25940 Glyma13g25940.1	180	179	179
Glyma13g26010 Glyma13g26010.1	180	179	179
Glyma13g25981 Glyma13g25981.1	98	97	97
Medtr8g039980 Medtr8g039980.1	163	162	162
Medtr8g039990 Medtr8g039990.1	202	201	201
gi 66811204	324	323	323
YMR150C	191	190	190
YMR035W	178	177	177
Esi0009.0118	235	234	234
g11585 g11585.t1	176	175	175
Vocar20005047m.g Vocar20005047m	176	175	175
gi 71982173	133	132	132
gi 21450679	167	166	166
CMB077C CMB077CT	179	178	178
PGSC0003DMG400008317 PGSC0003DMT40002143	162	161	161
PGSC0003DMG400008317 PGSC0003DMT40002143	170	169	169
Potri.005G092900 Potri.005G092900.1	172	171	171
Potri.007G071400 Potri.007G071400.1	217	216	216
GSVIVG01021415001 GSVIVT01021415001	209	208	208
Cucsa.047590 Cucsa.047590.1	176	175	175
29693.t000082 29693.m002044	177	176	176
30026.t000080 30026.m001516	159	158	158
Eucgr.D00315 Eucgr.D00315.1	173	172	172
LOC_Os11g40500 LOC_Os11g40500.1	193	192	192
GRMZM2G162274 GRMZM2G162274_T01	129	128	128
GRMZM2G066469 GRMZM2G066469_T01	177	176	176
GRMZM5G833660 GRMZM5G833660_T01	125	124	124
Bra009418 Bra009418	164	163	163
Carubv10010493m.g Carubv10010493m	167	166	166
AT1G29960	170	169	169
Bra006087 Bra006087	146	145	145
Bra008992 Bra008992	167	166	166
Carubv10010481m.g Carubv10010481m	169	168	168
Carubv10010481m.g Carubv10010684m	119	118	118
Potri.001G380400 Potri.001G380400.1	175	174	174
Glyma13g33660 Glyma13g33660.1	167	166	166
Glyma15g39140 Glyma15g39140.1	115	114	114
Cucsa.273860 Cucsa.273860.1	162	161	161
Eucgr.F03218 Eucgr.F03218.1	168	167	167
Eucgr.L03207 Eucgr.L03207.1	168	167	167
GSVIVG01014071001 GSVIVT01014071001	175	174	174
PGSC0003DMG400007080 PGSC0003DMT40001824	186	185	185
Esi0007.0117	132	131	131
85448 85448	132	131	131
Phpat.012G075300 Phpat.012G075300.1	164	163	163

g8013 g8013.t1	294	-----	293	-----	293	-----
Vocar20005591m.g Vocar20005591m	318	-----	317	-----	317	-----
GRMZM5G0800751 GRMZM5G0800751.T03	203	-----	202	-----	202	-----
GSVIVG01008821001 GSVIVT01008821001	174	-----	173	-----	173	-----
Vt1429 121429	182	-----	186	-----	186	-----
Glyma05g35480 Glyma05g35480.1	127	-----	291	-----	291	-----
Glyma08g04250 Glyma08g04250.1	294	-----	293	-----	293	-----
Medtr8g103470 Medtr8g103470.1	293	-----	292	-----	292	-----
Bra015061 Bra015061	294	-----	293	-----	293	-----
Carubv10014271m.g Carubv10014271m	302	-----	301	-----	301	-----
Potri.006G157900 Potri.006G157900.1	220	-----	319	-----	319	-----
Potri.006G160000 Potri.006G160000.1	329	-----	319	-----	319	-----
Potri.018G081800 Potri.018G081800.1	324	-----	323	-----	323	-----
Eucgr.C03817 Eucgr.C03817.1	328	-----	327	-----	327	-----
PGSC0003DMG40000378 PGSC0003DMT4000102	305	-----	304	-----	304	-----
29912.t000235 29912.m005509	314	-----	313	-----	313	-----
GSVIVG01015377001 GSVIVT01015377001	366	-----	175	-----	175	-----
Carubv10009515m.g Carubv10009515m	363	-----	365	-----	365	-----
Bra015534 Bra015534	357	-----	362	-----	362	-----
Bra031542 Bra031542	471	-----	356	-----	356	-----
LOC_Os03g55640 LOC_Os03g55640.1	411	-----	470	-----	470	-----
Bra021634 Bra021634	369	-----	410	-----	410	-----
Cucsa.232550 Cucsa.232550.1	329	-----	368	-----	368	-----
Carubv10023541m.g Carubv10023541m	370	-----	349	-----	349	-----
30170.t000351 30170.m013939	577	-----	QDHLSLSLPLNVSH-SSL	-----	KRMLGV	-----
GRMZM2G107798 GRMZM2G107798.T01	462	-----	EG	601ITVEVKDAQQLSIFQTFDPSPF-SMNG	-----	RVKINKGKSGFCLFWRQLCMLPLLP
GRMZM2G114557 GRMZM2G114557.T03	477	-----	461	-----	461	-----
Eucgr.F00038 Eucgr.F00038.1	376	-----	476	-----	476	-----
LOC_Os09g28000 LOC_Os09g28000.1	412	-----	375	-----	375	-----
PGSC0003DMG401011681 PGSC0003DMT40003049	374	-----	411	-----	411	-----
GRMZM2G024865 GRMZM2G024865.T01	397	-----	373	-----	373	-----
Eucgr.F02385 Eucgr.F02385.1	348	-----	396	-----	396	-----
Cucsa.123370 Cucsa.123370.1	370	-----	347	-----	347	-----
GSVIVG01009580001 GSVIVT01009580001	153	-----	369	-----	369	-----
Potri.014G036400 Potri.014G036400.1	440	-----	152	-----	152	-----
Phpat.023G022200 Phpat.023G022200.1	297	-----	378	-----	378	-----
18112 18112	134	-----	439	-----	439	-----
Medtr2g059220 Medtr2g059220.1	345	-----	296	-----	296	-----
Glyma04g03840 Glyma04g03840.5	363	-----	133	-----	133	-----
Medtr3g100960 Medtr3g100960.1	376	-----	344	-----	344	-----
86052 86052	144	-----	362	-----	362	-----
58024 58024	174	-----	375	-----	375	-----
GRMZM2G039930 GRMZM2G039930.T02	305	-----	143	-----	143	-----
LOC_Os02g16709 LOC_Os02g16709.1	299	-----	173	-----	173	-----
47339 47339	203	-----	304	-----	304	-----
Phpat.023G051200 Phpat.023G051200.1	199	-----	298	-----	298	-----
272208 272208	199	-----	202	-----	202	-----
Bra030640 Bra030640	206	-----	316	-----	316	-----
Cre01.g027100.t1.2	174	-----	198	-----	198	-----
Vocar20008453m.g Vocar20008453m	368	-----	205	-----	205	-----
GRMZM2G142938 GRMZM2G142938.T01	100	-----	173	-----	173	-----
LOC_Os03g05430 LOC_Os03g05430.1	167	-----	NQKLFETRRRGVHVRGCGTQGDVSLNPDAN	397IVVMTEILRNIMYRTAEAEENNTGSLSTREARLGNVGLVLDLLELCSATVQNPQDLG	457DWIAKEHMPFCT	
Bra029738 Bra029738	281	-----	99	-----	99	-----
Carubv10015579m.g Carubv10015579m	90	-----	166	-----	166	-----
Bra034045 Bra034045	155	-----	280	-----	280	-----
AT3G08980	155	-----	89	-----	89	-----
Medtr5g007850 Medtr5g007850.1	166	-----	154	-----	154	-----
Glyma07g18060 Glyma07g18060.1	171	-----	154	-----	154	-----
Glyma18g4290 Glyma18g4290.1	170	-----	165	-----	165	-----
PGSC0003DMG401008489 PGSC0003DMT40002187	92	-----	176	-----	176	-----
PGSC0003DMG401008489 PGSC0003DMT40002187	152	-----	169	-----	169	-----
PGSC0003DMG401008489 PGSC0003DMT40002187	81	-----	91	-----	91	-----
PGSC0003DMG401008489 PGSC0003DMT40002187	169	-----	151	-----	151	-----
Cucsa.176310 Cucsa.176310.1	185	-----	80	-----	80	-----
Potri.016G115100 Potri.016G115100.1	171	-----	168	-----	168	-----
GSVIVG01033968001 GSVIVT01033968001	171	-----	184	-----	184	-----
29701.t000024 29701.m000603	171	-----	170	-----	170	-----
Eucgr.A00507 Eucgr.A00507.1	231	-----	169	-----	169	-----
Eucgr.A00507 Eucgr.A00507.3	172	-----	230	-----	230	-----
Eucgr.A00507 Eucgr.A00507.4	172	-----	171	-----	171	-----
GRMZM2G02914 GRMZM2G02914.T01	169	-----	171	-----	171	-----
GRMZM2G042164 GRMZM2G042164.T01	149	-----	168	-----	168	-----
LOC_Os04g08340 LOC_Os04g08340.1	165	-----	179	-----	179	-----
91609 91609	170	-----	148	-----	148	-----
Phpat.009G097900 Phpat.009G097900.1	181	-----	164	-----	164	-----
CMR326C CMR326CT	200	-----	169	-----	169	-----
Esi0324_0009	176	-----	180	-----	180	-----
gi 17543654	153	-----	199	-----	199	-----
gi 14211845	176	-----	175	-----	175	-----
Medtr8g040010 Medtr8g040010.1	192	-----	152	-----	152	-----
Medtr8g040050 Medtr8g040050.1	243	-----	175	-----	175	-----
Glyma13g25940 Glyma13g25940.1	185	-----	191	-----	191	-----
Glyma13g25940 Glyma13g25940.1	180	-----	242	-----	242	-----
Glyma13g26010 Glyma13g26010.1	180	-----	184	-----	184	-----
Glyma13g25981 Glyma13g25981.1	98	-----	179	-----	179	-----
Medtr8g039980 Medtr8g039980.1	163	-----	179	-----	179	-----
Medtr8g039990 Medtr8g039990.1	202	-----	97	-----	97	-----
gi 66811204	324	-----	162	-----	162	-----
YMR150C	191	-----	201	-----	201	-----
YMR035W	178	-----	190	-----	190	-----
Esi0009_0118	235	-----	323	-----	323	-----
g11585 g11585.t1	176	-----	190	-----	190	-----
Vocar20005047m.g Vocar20005047m	176	-----	177	-----	177	-----
gi 71982173	133	-----	234	-----	234	-----
gi 21450679	167	-----	175	-----	175	-----
CMB077C CMB077CT	179	-----	175	-----	175	-----
PGSC0003DMG400008317 PGSC0003DMT40002143	162	-----	132	-----	132	-----
PGSC0003DMG400008317 PGSC0003DMT40002143	170	-----	166	-----	166	-----
Potri.005G092900 Potri.005G092900.1	172	-----	178	-----	178	-----
Potri.007G071400 Potri.007G071400.1	217	-----	161	-----	161	-----
GSVIVG01021415001 GSVIVT01021415001	209	-----	169	-----	169	-----
Cucsa.047590 Cucsa.047590.1	176	-----	171	-----	171	-----
29693.t000082 29693.m002044	177	-----	216	-----	216	-----
30026.t000080 30026.m001516	159	-----	208	-----	208	-----
Eucgr.D00315 Eucgr.D00315.1	173	-----	175	-----	175	-----
LOC_Os1g40500 LOC_Os1g40500.1	193	-----	176	-----	176	-----
GRMZM2G162274 GRMZM2G162274.T01	129	-----	158	-----	158	-----
GRMZM2G066469 GRMZM2G066469.T01	177	-----	172	-----	172	-----
GRMZM5G833660 GRMZM5G833660.T01	125	-----	192	-----	192	-----
Bra009418 Bra009418	164	-----	128	-----	128	-----
Carubv10010493m.g Carubv10010493m	167	-----	176	-----	176	-----
AT1G29960	170	-----	124	-----	124	-----
Bra006087 Bra006087	146	-----	163	-----	163	-----
Bra008992 Bra008992	167	-----	166	-----	166	-----
Carubv10010481m.g Carubv10010481m	169	-----	169	-----	169	-----
Carubv10010481m.g Carubv10010684m	119	-----	145	-----	145	-----
Potri.001G380400 Potri.001G380400.1	175	-----	166	-----	166	-----
Glyma15g39140 Glyma15g39140.1	115	-----	166	-----	166	-----
Cucsa.273860 Cucsa.273860.1	162	-----	114	-----	114	-----
Eucgr.F03218 Eucgr.F03218.1	168	-----	161	-----	161	-----
Eucgr.L03207 Eucgr.L03207.1	168	-----	167	-----	167	-----
GSVIVG01014071001 GSVIVT01014071001	168	-----	167	-----	167	-----
PGSC0003DMG400007080 PGSC0003DMT40001824	186	-----	167	-----	167	-----
Esi0007_0117	124	-----	123	-----	123	-----
85448 85448	132	-----	185	-----	185	-----
Phpat.012G075300 Phpat.012G075300.1	164	-----	131	-----	131	-----
		-----	163	-----	163	-----

g8013 g8013.t1	294	293
Vocar20005591m.g Vocar20005591m	318	317
GRMZM5G00751 GRMZM5G00751_T03	203	202
GSVIVG01008821001 GSVIVT01008821001	174	173
Vt1429 1429	187	186
Glyma05g35480 Glyma05g35480.1	292	291
Glyma08g04250 Glyma08g04250.1	294	293
Medtr8g103470 Medtr8g103470.1	293	292
Bra015061 Bra015061	294	293
Carubv10014271m.g Carubv10014271m	302	301
Potri.006G157900 Potri.006G157900.1	320	319
Potri.006G160000 Potri.006G160000.1	320	319
Potri.018G081800 Potri.018G081800.1	324	323
Eucgr.C03817 Eucgr.C03817.1	328	327
PGSC0003DMG40000378 PGSC0003DMT40000102	305	304
29912.t000235 29912.m005509	314	313
GSVIVG01015377001 GSVIVT01015377001	175	175
Carubv10009515m.g Carubv10009515m	366	365
Bra015534 Bra015534	363	362
Bra031542 Bra031542	357	356
LOC_Os03g55640 LOC_Os03g55640.1	471	470
Bra021634 Bra021634	411	410
Cucsa.232550 Cucsa.232550.1	369	368
Carubv10023541m.g Carubv10023541m	350	349
30170.t000351 30170.m013939	653	652
GRMZM2G107798 GRMZM2G107798_T01	462	461
GRMZM2G114557 GRMZM2G114557_T03	477	476
Eucgr.F00038 Eucgr.F00038.1	376	375
LOC_Os09g28000 LOC_Os09g28000.1	412	411
PGSC0003DMG401011681 PGSC0003DMT40003049	374	373
GRMZM2G024865 GRMZM2G024865_T01	397	396
Eucgr.F02385 Eucgr.F02385.1	348	347
Cucsa.123370 Cucsa.123370.1	370	369
GSVIVG01009580001 GSVIVT01009580001	153	152
Potri.014G036400 Potri.014G036400.1	378	378
Phpat.023G022200 Phpat.023G022200.1	440	439
Phpat.023G022200 Phpat.023G022200.1	297	296
18112 18112	134	133
Medtr2g059220 Medtr2g059220.1	345	344
Glyma04g03840 Glyma04g03840.5	363	362
Medtr3g100960 Medtr3g100960.1	376	375
86052 86052	144	143
58024 58024	174	173
GRMZM2G039930 GRMZM2G039930_T02	305	304
LOC_Os02g16709 LOC_Os02g16709.1	299	298
47339 47339	203	202
Phpat.023G051200 Phpat.023G051200.1	317	316
272208 272208	199	198
Bra030640 Bra030640	206	205
Cre01.g027100 Cre01.g027100.t1.2	174	173
Vocar20008453m.g Vocar20008453m	470	469
GRMZM2G142938 GRMZM2G142938_T01	100	99
LOC_Os03g05430 LOC_Os03g05430.1	167	166
Bra029738 Bra029738	281	280
Carubv10015579m.g Carubv10015579m	89	89
Bra034045 Bra034045	155	154
AT3G08980	155	154
Medtr5g007850 Medtr5g007850.1	166	165
Glyma07g18060 Glyma07g18060.1	171	170
Glyma18g42910 Glyma18g42910.1	170	169
PGSC0003DMG401008489 PGSC0003DMT40002187	192	191
PGSC0003DMG401008489 PGSC0003DMT40002187	92	91
PGSC0003DMG401008489 PGSC0003DMT40002187	81	80
PGSC0003DMG401008489 PGSC0003DMT40002187	169	168
Cucsa.176310 Cucsa.176310.1	185	184
Potri.016G115100 Potri.016G115100.1	170	170
GSVIVG01033968001 GSVIVT01033968001	171	170
29701.t000024 29701.m000603	171	170
Eucgr.A00507 Eucgr.A00507.1	231	230
Eucgr.A00507 Eucgr.A00507.3	172	171
Eucgr.A00507 Eucgr.A00507.4	172	171
GRMZM2G029141 GRMZM2G029141_T01	169	168
GRMZM2G042164 GRMZM2G042164_T01	149	148
LOC_Os04g08340 LOC_Os04g08340.1	165	164
91609 91609	170	169
Phpat.009G097900 Phpat.009G097900.1	181	180
CMR33c CMR33cCT	200	199
CMR326c CMR326cCT	200	199
Esi0324_0009	176	175
gi 17543654	153	152
gi 14211845	176	175
Medtr8g040010 Medtr8g040010.1	192	191
Medtr8g040050 Medtr8g040050.1	243	242
Glyma13g26540 Glyma13g26540.1	185	184
Glyma13g25940 Glyma13g25940.1	180	179
Glyma13g26010 Glyma13g26010.1	180	179
Glyma13g25981 Glyma13g25981.1	98	97
Medtr8g039980 Medtr8g039980.1	202	162
Medtr8g039990 Medtr8g039990.1	324	201
gi 66811204	191	323
YMR150C	191	190
YMR035W	178	177
Esi0009_0118	235	234
g11585 g11585.t1	176	175
Vocar20005047m.g Vocar20005047m	176	175
gi 71982173	133	132
gi 21450679	167	166
CMB077C CMB077CT	179	178
PGSC0003DMG400008317 PGSC0003DMT40002143	162	161
PGSC0003DMG400008317 PGSC0003DMT40002143	170	169
Potri.005G092900 Potri.005G092900.1	172	171
Potri.007G071400 Potri.007G071400.1	207	206
GSVIVG01021415001 GSVIVT01021415001	209	208
Cucsa.047590 Cucsa.047590.1	176	175
29693.t000082 29693.m002044	177	176
30026.t000080 30026.m001516	159	158
Eucgr.D00315 Eucgr.D00315.1	173	172
LOC_Os1g40500 LOC_Os1g40500.1	193	192
GRMZM2G162274 GRMZM2G162274_T01	129	128
GRMZM2G066469 GRMZM2G066469_T01	177	176
GRMZM5G833660 GRMZM5G833660_T01	125	124
Bra009418 Bra009418	164	163
Carubv10010493m.g Carubv10010493m	167	166
AT1G29960	170	169
Bra006087 Bra006087	146	145
Bra008992 Bra008992	167	166
Carubv10010481m.g Carubv10010481m	169	168
Carubv10010481m.g Carubv10010684m	119	118
Potri.001G380400 Potri.001G380400.1	175	174
Glyma13g33660 Glyma13g33660.1	167	166
Glyma15g39140 Glyma15g39140.1	115	114
Cucsa.273860 Cucsa.273860.1	162	161
Eucgr.F03218 Eucgr.F03218.1	168	167
Eucgr.L03207 Eucgr.L03207.1	168	167
GSVIVG01014071001 GSVIVT01014071001	175	174
PGSC0003DMG400007080 PGSC0003DMT40001824	186	185
Esi0007_0117	132	131
85448 85448	132	131
Phpat.012G075300 Phpat.012G075300.1	164	163

g8013 g8013.t1	294	---	293	---	293
Vocar20005591m.g Vocar20005591m	318	---	317	---	317
GRMZM5G0800751 GRMZM5G0800751.T03	203	---	202	---	202
GSVIVG01008821001 GSVIVT01008821001	174	---	173	---	173
V1429 1429	187	---	186	---	186
Glyma05g35480 Glyma05g35480.1	222	---	221	---	221
Glyma08g04250 Glyma08g04250.1	294	---	293	---	293
Medtr8g103470 Medtr8g103470.1	293	---	292	---	292
Bra015061 Bra015061	294	---	293	---	293
Carubv10014271m.g Carubv10014271m	302	---	301	---	301
Potri.006G157900 Potri.006G157900.1	220	---	219	---	219
Potri.006G160000 Potri.006G160000.1	329	---	329	---	319
Potri.018G081800 Potri.018G081800.1	324	---	323	---	323
Eucgr.C03817 Eucgr.C03817.1	328	---	327	---	327
PGSC0003DMG40000378 PGSC0003DMT40000102	305	---	304	---	304
29912.t000235 29912.m005509	314	---	313	---	313
GSVIVG01015377001 GSVIVT01015377001	175	---	175	---	175
Carubv10009515m.g Carubv10009515m	366	---	365	---	365
Bra015534 Bra015534	363	---	362	---	362
Bra031542 Bra031542	357	---	356	---	356
LOC_Os03g55640 LOC_Os03g55640.1	471	---	470	---	470
Bra021634 Bra021634	411	---	410	---	410
Cucsa.232550 Cucsa.232550.1	369	---	368	---	368
Carubv10023541m.g Carubv10023541m	329	---	329	---	349
30170.t000351 30170.m013939	715	LRTFLGNQMELSGFLR	730SNVKAA	---	---
GRMZM2G107798 GRMZM2G107798.T01	462	---	461	---	---
GRMZM2G114557 GRMZM2G114557.T03	477	---	476	---	---
Eucgr.F00038 Eucgr.F00038.1	376	---	375	---	---
LOC_Os09g28000 LOC_Os09g28000.1	412	---	411	---	---
PGSC0003DMG401011681 PGSC0003DMT40003049	374	---	373	---	---
GRMZM2G024865 GRMZM2G024865.T01	397	---	396	---	---
Eucgr.F02385 Eucgr.F02385.1	348	---	347	---	---
Cucsa.123370 Cucsa.123370.1	370	---	369	---	---
GSVIVG01009580001 GSVIVT01009580001	153	---	152	---	---
Potri.014G036400 Potri.014G036400.1	440	---	439	---	---
Phpat.02G038400 Phpat.02G038400.1	297	---	296	---	---
Phpat.023G022200 Phpat.023G022200.1	18112 18112	---	---	---	---
Medtr2g059220 Medtr2g059220.1	345	---	344	---	---
Glyma04g03840 Glyma04g03840.5	363	---	362	---	---
Medtr3g100960 Medtr3g100960.1	376	---	375	---	---
86052 86052	144	---	143	---	---
58024 58024	174	---	173	---	---
GRMZM2G039930 GRMZM2G039930.T02	305	---	304	---	---
LOC_Os02g16709 LOC_Os02g16709.1	299	---	298	---	---
47339 47339	203	---	202	---	---
Phpat.023G051200 Phpat.023G051200.1	272208 272208	---	---	---	---
272208 272208	199	---	198	---	---
Bra030640 Bra030640	206	---	205	---	---
Cre01.g027100.t1.2	174	---	173	---	---
Vocar20008453m.g Vocar20008453m	557	TR	558KEAEASALEEEARGLVESFKALATVRAKELNVSGSSGSEGVPRGFRAAGAWALQTTQGNP	618	TTSAVTRQLQS
GRMZM2G142938 GRMZM2G142938.T01	100	---	99	---	---
LOC_Os03g05430 LOC_Os03g05430.1	167	---	166	---	---
Bra029738 Bra029738	281	---	280	---	---
Carubv10015579m.g Carubv10015579m	90	---	89	---	---
Bra034045 Bra034045	155	---	154	---	---
AT3G08980	155	---	154	---	---
Medtr5g007850 Medtr5g007850.1	166	---	165	---	---
Glyma07g18060 Glyma07g18060.1	171	---	170	---	---
Glyma18g42910 Glyma18g42910.1	170	---	169	---	---
PGSC0003DMG401008489 PGSC0003DMT40002187	92	---	91	---	---
PGSC0003DMG401008489 PGSC0003DMT40002187	152	---	151	---	---
PGSC0003DMG401008489 PGSC0003DMT40002187	81	---	80	---	---
PGSC0003DMG401008489 PGSC0003DMT40002187	169	---	168	---	---
Cucsa.176310 Cucsa.176310.1	185	---	184	---	---
Potri.016G115100 Potri.016G115100.1	172	---	171	---	---
GSVIVG01033968001 GSVIVT01033968001	171	---	170	---	---
29701.t000024 29701.m000603	171	---	170	---	---
Eucgr.A00507 Eucgr.A00507.1	231	---	230	---	---
Eucgr.A00507 Eucgr.A00507.3	172	---	171	---	---
Eucgr.A00507 Eucgr.A00507.4	172	---	171	---	---
GRMZM2G02914 GRMZM2G02914.T01	169	---	168	---	---
GRMZM2G042164 GRMZM2G042164.T01	149	---	148	---	---
LOC_Os04g08340 LOC_Os04g08340.1	165	---	164	---	---
91609 91609	170	---	169	---	---
Phpat.009G097900 Phpat.009G097900.1	181	---	180	---	---
CMR33C CMR33C	200	---	199	---	---
CMR326C CMR326C	200	---	199	---	---
Esi0324.0009	176	---	175	---	---
gi 17543654	153	---	152	---	---
gi 14211845	176	---	175	---	---
Medtr8g040010 Medtr8g040010.1	192	---	191	---	---
Medtr8g040050 Medtr8g040050.1	243	---	242	---	---
Glyma13g26540 Glyma13g26540.1	185	---	184	---	---
Glyma13g25940 Glyma13g25940.1	180	---	179	---	---
Glyma13g26010 Glyma13g26010.1	180	---	179	---	---
Glyma13g25981 Glyma13g25981.1	98	---	97	---	---
Medtr8g039980 Medtr8g039980.1	163	---	162	---	---
Medtr8g039990 Medtr8g039990.1	202	---	201	---	---
gi 66811204	324	---	323	---	---
YMR150C	191	---	190	---	---
YMR035W	178	---	177	---	---
Esi0009.0118	235	---	234	---	---
g11585 g11585.t1	176	---	175	---	---
Vocar20005047m.g Vocar20005047m	176	---	175	---	---
gi 71982173	133	---	132	---	---
gi 21450679	167	---	166	---	---
CMB077C CMB077C	179	---	178	---	---
PGSC0003DMG400008317 PGSC0003DMT40002143	162	---	161	---	---
PGSC0003DMG400008317 PGSC0003DMT40002143	170	---	169	---	---
Potri.005G092900 Potri.005G092900.1	172	---	171	---	---
Potri.007G071400 Potri.007G071400.1	207	---	216	---	---
GSVIVG01021415001 GSVIVT01021415001	209	---	208	---	---
Cucsa.047590 Cucsa.047590.1	176	---	175	---	---
29693.t000082 29693.m002044	177	---	176	---	---
30026.t000080 30026.m001516	159	---	158	---	---
Eucgr.D00315 Eucgr.D00315.1	173	---	172	---	---
LOC_Os11g40500 LOC_Os11g40500.1	193	---	192	---	---
GRMZM2G162274 GRMZM2G162274.T01	129	---	128	---	---
GRMZM2G066469 GRMZM2G066469.T01	177	---	176	---	---
GRMZM5G833660 GRMZM5G833660.T01	125	---	124	---	---
Bra009418 Bra009418	164	---	163	---	---
Carubv10010493m.g Carubv10010493m	167	---	166	---	---
AT1G29960	124	---	124	---	---
Bra006087 Bra006087	146	---	145	---	---
Bra008992 Bra008992	167	---	166	---	---
Carubv10010481m.g Carubv10010481m	169	---	168	---	---
Carubv10010481m.g Carubv10010684m	119	---	118	---	---
Potri.001G380400 Potri.001G380400.1	175	---	174	---	---
Glyma13g33660 Glyma13g33660.1	167	---	166	---	---
Glyma15g39140 Glyma15g39140.1	115	---	114	---	---
Cucsa.273860 Cucsa.273860.1	162	---	161	---	---
Eucgr.F03218 Eucgr.F03218.1	168	---	167	---	---
Eucgr.L03207 Eucgr.L03207.1	168	---	167	---	---
GSVIVG01014071001 GSVIVT01014071001	168	---	167	---	---
PGSC0003DMG400007080 PGSC0003DMT40001824	124	---	123	---	---
Esi0007.0117	186	---	185	---	---
85448 85448	132	---	131	---	---
Phpat.012G075300 Phpat.012G075300.1	164	---	163	---	---

g8013 g8013.t1	294	-----	293
Vocar20005591m.g Vocar20005591m	318	-----	317
GRMZM5G0800751 GRMZM5G0800751_T03	203	-----	202
GSVIVG01008821001 GSVIVT01008821001	174	-----	173
121429 121429	187	-----	186
Glyma05g35480 Glyma05g35480.1	292	-----	291
Glyma08g04250 Glyma08g04250.1	294	-----	293
Medtr8g103470 Medtr8g103470.1	293	-----	292
Bra015061 Bra015061	294	-----	293
Carubv10014271m.g Carubv10014271m	302	-----	301
Potri.006G157900 Potri.006G157900.1	320	-----	319
Potri.006G160000 Potri.006G160000.1	329	-----	328
Potri.018G081800 Potri.018G081800.1	324	-----	323
Eucgr.C03817 Eucgr.C03817.1	328	-----	327
PGSC0003DMG40000378 PGSC0003DMT40000102	305	-----	304
29912.t000235 29912.m005509	314	-----	313
GSVIVG01015377001 GSVIVT01015377001	175	-----	175
Carubv10009515m.g Carubv10009515m	366	-----	365
Bra015534 Bra015534	363	-----	362
Bra031542 Bra031542	357	-----	356
LOC_Os03g55640 LOC_Os03g55640.1	471	-----	470
Bra021634 Bra021634	411	-----	410
Cucsa.232550 Cucsa.232550.1	369	-----	368
Carubv10023541m.g Carubv10023541m	350	-----	349
30170.t000351 30170.m013939	798	VDSASWSNLMNSLSPFKFPPSILVPEALTLDVVKW	831
GRMZM2G107798 GRMZM2G107798_T01	462	-----	461
GRMZM2G114557 GRMZM2G114557_T03	477	-----	476
Eucgr.F00038 Eucgr.F00038.1	376	-----	375
LOC_Os09g28000 LOC_Os09g28000.1	412	-----	411
PGSC0003DMG401011681 PGSC0003DMT40003049	374	-----	373
GRMZM2G024865 GRMZM2G024865_T01	397	-----	396
Eucgr.F02385 Eucgr.F02385.1	348	-----	347
Cucsa.123370 Cucsa.123370.1	370	-----	369
GSVIVG01009580001 GSVIVT01009580001	153	-----	152
Potri.014G036400 Potri.014G036400.1	378	-----	378
Phpat.020G038400 Phpat.020G038400.1	440	-----	439
Phpat.023G022200 Phpat.023G022200.1	297	-----	296
18112 18112	134	-----	133
Medtr2g059220 Medtr2g059220.1	345	-----	344
Glyma04g03840 Glyma04g03840.5	363	-----	362
Medtr3g100960 Medtr3g100960.1	376	-----	375
86052 86052	144	-----	143
58024 58024	174	-----	173
GRMZM2G039930 GRMZM2G039930_T02	305	-----	304
LOC_Os02g16709 LOC_Os02g16709.1	299	-----	298
47339 47339	203	-----	202
Phpat.023G051200 Phpat.023G051200.1	317	-----	316
272208 272208	199	-----	198
Bra030640 Bra030640	206	-----	205
Cre01.g027100 Cre01.g027100.t1.2	174	-----	173
Vocar20008453m.g Vocar20008453m	642	LADK	645
GRMZM2G142938 GRMZM2G142938_T01	100	-----	99
LOC_Os03g05430 LOC_Os03g05430.1	167	-----	166
Bra029738 Bra029738	281	-----	280
Carubv10015579m.g Carubv10015579m	90	-----	89
Bra034045 Bra034045	155	-----	154
AT3G08980	155	-----	154
Medtr5g007850 Medtr5g007850.1	166	-----	165
Glyma07g18060 Glyma07g18060.1	171	-----	170
Glyma18g42910 Glyma18g42910.1	170	-----	169
PGSC0003DMG401008489 PGSC0003DMT40002187	92	-----	91
PGSC0003DMG401008489 PGSC0003DMT40002187	152	-----	151
PGSC0003DMG401008489 PGSC0003DMT40002187	81	-----	80
PGSC0003DMG401008489 PGSC0003DMT40002187	169	-----	168
Cucsa.176310 Cucsa.176310.1	185	-----	184
Potri.016G115100 Potri.016G115100.1	170	-----	169
GSVIVG01033968001 GSVIVT01033968001	171	-----	170
29701.t000024 29701.m000603	171	-----	170
Eucgr.A00507 Eucgr.A00507.1	231	-----	230
Eucgr.A00507 Eucgr.A00507.3	172	-----	171
Eucgr.A00507 Eucgr.A00507.4	172	-----	171
GRMZM2G02914 GRMZM2G02914_T01	169	-----	168
GRMZM2G042164 GRMZM2G042164_T01	149	-----	148
LOC_Os04g08340 LOC_Os04g08340.1	165	-----	164
91609 91609	170	-----	169
Phpat.009G097900 Phpat.009G097900.1	181	-----	180
CMR33c CMR33cCT	200	-----	199
CMR326c CMR326cCT	200	-----	199
Esi0324.0009	176	-----	175
gi 17543654	153	-----	152
gi 14211845	176	-----	175
Medtr8g040010 Medtr8g040010.1	192	-----	191
Medtr8g040050 Medtr8g040050.1	243	-----	242
Glyma13g26540 Glyma13g26540.1	185	-----	184
Glyma13g25940 Glyma13g25940.1	180	-----	179
Glyma13g26010 Glyma13g26010.1	180	-----	179
Glyma13g25981 Glyma13g25981.1	98	-----	97
Medtr8g039980 Medtr8g039980.1	163	-----	162
Medtr8g039990 Medtr8g039990.1	202	-----	201
gi 66811204	324	-----	323
YMR150C	191	-----	190
YMR035W	178	-----	177
Esi0009_0118	235	-----	234
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