

RPP8 1 MAEAFVFSFGL EKLWDLLSRESERLQGVDEQITDGLKRQLRSLQSLKADADAKKHGSDRVRN
RCY 1 MAEGFVFSFGLQKLDWLLSRESERLQGIDEQLDGLKRQLRSLQSLKADADAKKHGSDRVRN
HRT 1 MAEAFVFSFGL EKLWDLLSRESERLQGIDEQLDGLKRQLRSLQSLKADADAKKHGSDRVRN
LOV1 1 MAEGVVLFGVHKLWELLNRESARLNGIGEQQVDGLKRQLGR LQSLKADADAKKHESERVN
Col-0 1 MAEGVVLFGVHKLWELLNRESARLNGIGEQQVDGLKRQLGR LQSLKADADAKKHESERVN

RPP8 61 FLEDVKDLVFDAEDIIESYVLNKLGRGEGKGVKKHVRRLARFLTDRHKVASDIEGITKRIS
RCY 61 FLEDVKDLVFDAEDIIESYVLNKLGRGEGKGVKKHVRRLARFLTDRHKVASDIEGITKRIS
HRT 61 FLEDVKDLVFDAEDIIESYVLNKLGRGEEKGIKKHVRRLACFLTDRHKVASDIEGITKRIS
LOV1 61 FLEDV^RD^IV^VDAEDIIES^FL^LN^EF^RT^KE^KG^IK^KH^AR^RL^AC^FL^VD^RR^KF^AS^DI^KG^IT^KI^S
Col-0 61 FLEDV^RD^IV^VDAEDIIES^FL^LN^EF^RT^KE^KG^IK^KH^AR^RL^AC^FL^VD^RR^KF^AS^DI^KG^IT^KI^S---

RPP8 121 DVIGEMQSF^GIQQ--IIDGVRSLSLQERQ^RV^QREIROQTYPDSS^ESDLVGVEQ^SV^KELVGH^L
RCY 121 EVIGEMQSF^GIQQ--IIDG^CRSLSLQERQ--REIROQTYPDSS^ESDLVGVEQ^SV^KELVGH^L
HRT 121 EVIGEMQSL^GIQQQIIDG^CRSLSLQERQ^RV^QREIROQTYPDSS^ESDLVGVEQ^SV^TELV^CH^L
LOV1 121 EVIG^GM^KS^LG^IQ^E--IIDG^AS^SM^SLQERQ^RE^QK^EI^RO^TF^AN^SSESDLVGVEQ^SV^EALAG^HL
Col-0 -----

RPP8 180 VENDVHQVVS IAGMGGIGKTTLARQVFHDLVRRHFDGFAWCVSQQFTQKHVWQRILQE
RCY 177 VENDVHQVVS IAGMGGIGKTTLARQVFHDLVRRHFDGFAWCVSQQFTQKHVWQRILQE
HRT 181 VENDVHQVVS IAGMGGIGKTTLARQVFHDLVRRHFDGFAWCVSQQFTQKHVWQRILQE
LOV1 180 VEND^NI^QVVS I^SGMGGIGKTTLARQVFH^DM^VQ^RHFDGFAW^FV^SQQFTQKHVWQR^IW^QE
Col-0 -----

RPP8 240 LOPHDGDILQMDEYALQ^RK^LF^OLLEA^GK^YL^VV^LDDVW^KKEDWD^VI^KAVFPRKRGWKMLLT
RCY 237 LOPHDGDILQMDEYALQ^RK^LF^OLLEA^GR^YL^VV^LDDVW^KKEDWD^RI^KAVFPRKRGWKMLLT
HRT 241 LOPHDGDILQMDESAL^QR^KL^FOLLET^GR^YL^VV^LDDVW^KKEDWD^RI^KAVFPRKRGWKMLLT
LOV1 240 LQ^PQ^NG^DI^SH^MD^EH^IL^OG^KL^FK^LL^ET^GR^YL^VV^LDDVW^KE^DWD^RI^KAVFPRKRGWKMLLT
Col-0 -----

RPP8 300 SRNEGVGIHADPTCLTFRASILNPEESWKL^CERIVFPRRDET---EVR^LD^EE^MEAMG^KE
RCY 297 SRNEGVGIHADPTCLTFRASILNPEESWKL^CERIVFPRRDET---EVR^LD^EE^MEAMG^KE
HRT 301 SRNEGVGIHADPTCLTFRASILNPEESWKL^CERIVFPRRDET---EVR^LD^EE^MEAMG^KE
LOV1 300 SRNEGVGIHADPKS^FG^F^KTRIL^TPEESWKL^CE^KIVFHRRDETGTLS^EV^R^VD^ED^EAMG^KE
Col-0 -----

RPP8 356 MVTHCGGLPLAVKVLGGLLANKHTVPEWKRVS^DNIGSQIVGGS^CLDDNSLNSVYRILSLS
RCY 353 MVTHCGGLPLAVK^ALGGLLANKHTVPEWKRVS^DNIGSQIVGGS^CLDDNSLNSVYRILSLS
HRT 357 MVTHCGGLPLAVKVLGGLLANKHTVPEWKRVS^DNIGSQIVGGS^CLDDNSLNSVYRILSLS
LOV1 360 MVT^CCGGLPLAVKVLGGLL^AT^KH^TVPEWKRVS^DNIG^PH^LA^GRS^SLDDN⁻LNS^TY^RV^LSLS
Col-0 -----

RPP8 416 YEDLPTHLK^HR^FL^FLAHFPEY^SK^ISAYD^LF^NYWA^VEG^IY---DGST^IQ^DS^GEY^LEELV
RCY 413 YEDLPTHLK^HC^FL^YLAHFPE^DS^KIYR^HG^LF^NYWA^VEG^IY---DGST^IE^DS^GEY^LEELV
HRT 417 YEDLPTHLK^HR^FL^FLAHFPE^DS^KIT^TQ^EL^FY^WAA^EEG^IY---DGST^IE^DS^GEY^LEELV
LOV1 419 YEDL^PM^CL^KH^C^FL^YLAHFPE^YY^EI^HV^KR^LF^NY^LA^EGI^TSS^DDG^TI^QD^KG^ED^YL^EE^LA
Col-0 -----

RPP8 472 RRNLVIADNRYLSSHSKNCQMHDMREVCLSKAKEENFLQI IKDPTS TSTINAQSPRSR
RCY 469 RRNLVIADNKNLDWHSKYCQMHDMREVCLPKAKEENFLQI IKDPTCTSTINAQSPRSR
HRT 473 RRNLVIADNKYLRVHSKYCQMHDMREVCLSKAKEENFLQI IKDPTSISTINAQSPRRSR
LOV1 479 RRNMLTIDKNYMF LRKKHCQMHDMREVCLSKAKEENFLQI IKDPTSISTINAQSPRRSR
Col-0 -----

RPP8 532 RLSIHS GKAFHILGHKNNTKVRS LIVW---DEDFGIRSAS-VFHNLTLLRVLDLYVVKFE
RCY 529 RLSIHS GKAFHILGHKNNAKVRS LIVLRLKEEDY WIRSAS-VFHNLTLLRVLDLSVVKFE
HRT 533 RLSIHRGKAFQILGHRNNAKVRS LIVSRFK EEDFWIRSAS-VFHNLTLLRVLDLSVVKFE
LOV1 539 RLSVHGGNALQSLGQTINKKVRSLIYFAFEDEFCEESTTPCFRSLPLLRVLDLSRVKFE
Col-0 -----

RPP8 588 GGKLPSSIGGLIHLRYLSLFLAGVSHLPSTMRNLKLLLYLNL SVNNKEPIHVPNVLKEMI
RCY 588 GGKLPSSIGGLIHLRYLSLCCAGVSHLPSTMRNLKLLLYLNL NVDNEELIHVPNVLKEMI
HRT 592 GGKLPSSIGGLIHLRYLSLYEAKVSHLPSTMRNLKLLLYLNL DLSVHEEPIHVPNVLKEMI
LOV1 599 GGKLPSSIGDLIHLRFLSLHRAWISHLPSLRNLKLLLYLNL GFNG--MVHVPNVLKEMO
Col-0 -----

RPP8 648 QLRYLSLPIKKDDKTKLELGD LVNLEFLFGFSTQHSVTDLLHMTKLRYLAVSL SERCNF
RCY 648 ELRYLSLPIKMDDKTKLELGD LVNLEFLFGFSTQHSVTDLLHMTKLRYLAVSL SERCNF
HRT 652 ELRHISLPL-MDDKTKLELGD LVNLEYLRFSTQHSVTDLLRMTKLQYLVSL SERCNF
LOV1 657 ELRYLQLPMSMHDKTKLELSD LVNLES LMNFSTKYASVMDLLHMTKLRRELSLFTDGS-S
Col-0 -----

RPP8 708 ETLSSSLRELNRNLETLYVLFSP EIFMVDYMGFVLDHFIHLKELGLAVRMSKIPDQHQLP
RCY 708 ETLSSSLRELNRNLETLNFLFTPTOTYMVDEHMGV FVLDHFIHLKELGLAVSMSKIPDQHQP
HRT 711 ETLSSSLRELNRNLES LNFLFTPETYMVVDYMGFVLDHFIHLKELGLAVRMSKIPDQHQP
LOV1 716 DTLSSSLGQLRSLEV LHL YDRQEP RVAYHGGETV LN-CIHLKELELAT HMPRFPDQYLFH
Col-0 -----

RPP8 768 PHLAQIYICNCRMEEDPMPILEKLLHLKSVKLT FKAFA GRRMVCSKGGFTQLCALEISEQ
RCY 768 PHLVHIFLFYCGMEEDPMPILEKLLHLKSVELSNKAFAGRRMVCSKGGFTQLCALEISEQ
HRT 771 PHLTHIHL LFCRMEEDPMPILEKLLHLKSVQLTDEAFVGS RRMVCSKGGFPQLCALDISKE
LOV1 775 PHLSHIYLWCCSMEEDPMPILERLLHLKSVILTFGAFV GRRMVCSKGGFPQLCFLKIEEL
Col-0 -----

RPP8 828 SELEEWIVEEGSMPCLRTLTIHDC EKLKELPDGLKYITSLKELKIEGMKREWKEKLVPGG
RCY 828 LELEEWIVEEGSMPCLRTLTIHDC KKLKELPDGLKYITSLKELKIEGMKREWKEKLVPGG
HRT 831 SELEEWIVEEGSMPCLRTLTIHDC EKLKELPDGLKYITSLKELKIEGMKREWKEKLVPGG
LOV1 835 EELEEWIVEEGSMP LRLALTI CNCRK LK-LPGG I NYITSLKELTIVGMK--WKEKLVPGG
Col-0 -----

RPP8 888 EDYYKVQH IPDVQFINCDQ
RCY 888 EDYYKVQH IPDVQFINCDQ
HRT 891 EDYYKVQH IPDVQFINCDQ
LOV1 892 EDYYKVQNI PNQFINCDE
Col-0 -----