

AtIRT1 1 -----MKTIFLVLI FV SFAIS PATSTAPEECG-----SESANPCVNKAKA
 AtIRT2 1 -----MATTKLVI ILLILEFTFTV SPAISTAPEHCD-----SGFDNPCI NKAKA
 OsIRT1 1 --MATPRTLVP IIPVVAALL LLLVAASSIPII AAQPADACGGAPDQAAADGACHDV PRA
 OsIRT2 1 ----MMSSSQTPVRIAFVFLV ILAATDAHSDHRTPEPACG----GAAVGGECHSVARA
 ZmIRT1 1 -MSWRRNQLRAFIVLAVILLIT AATYRANAQPAPPADETPAADTCADPSVEGACRNVEKA
 AtIRT3 1 MFFVDVLWKLVP IYIFGSETKSI SATESII QIVPEAMAATSSNVLCNA SESDLCRDDSA

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AtIRT1 41 LPLKVI AIFVILIASMIGV GAPLFSRNVSFLQPDGNIF TIIKCFASG IILGTGFMHVL PD
 AtIRT2 44 LPLKVI AIVAILTTSIIGVTSPLFSRYISFLRPDGNCFMIVKCFSSG IILGTGFMHVL PD
 OsIRT1 59 LRLKLI AIP TILVSSVGVCLPLI SRSVPALRPDGCLEAVVKAFASGVILATGYMHVLPD
 OsIRT2 52 LRLKLI AIPAILAASVAGVCLPLI SRSVPALRPDGCLEAVVKAFASGVILGTGYMHVLPD
 ZmIRT1 60 LRLKLI AIP TILVSSVIGVCLPLI SRSVPALRPDRNLEFVIVKAFASGVILATGYMHVLPD
 AtIRT3 61 FLKFEVAIASI ILAGAAGVTIPLIGRNRRLQTDGNL FVTAKAFAAGVILATGFVHM IAG

AtIRT1 101 SFEMLS SICLEENPW H KFPFSGLFAMISGLITL AIDSMATSLYTSK---NAVGI MP----
 AtIRT2 104 SFEMLS SKCLSDN PWHKFPFAGFVAM SGLVTLAIDSI TTSLYTGK---NSVGPVPDE--
 OsIRT1 119 AFNLTSPCLPRKPWSEFPFAAFVAMLA AVSTLMADSLM TTYNRSKPRESSGGDVA---
 OsIRT2 112 SFNDLTS PCLPRKPWSEFPFAAFVAMLA AVFTLMVDSLMT FHTRG----SKGRASS---
 ZmIRT1 120 SFNLTSPCLPRKPWADF SFTTFVAMLAALFTLMVDSLMSFYNRKGGNTSGRRTSG--
 AtIRT3 121 GTEALKNPCLEDFPWSKFPFEGFAMIAALITL FVDFMGTQY YERKQEREASESVEPFGR

AtIRT1 154 -----
 AtIRT2 159 -----EYCIDQEKA
 OsIRT1 176 -----AVADHGESP
 OsIRT2 165 -----AVAHHG--
 ZmIRT1 178 -----AVADHESPA
 AtIRT3 181 EQSPGIVVPMIGEGTNDGKVFGEEDSGGIHIVGIHAAHHRHSHPPGHDSCEGHSKIDI

AtIRT1 154 -HGHHGHGHPANDVTIPIKEDDSSN-----AQLLR YRVITAMVLELG IIVHVS
 AtIRT2 168 IHMVGHNHSHGHGVV LTKDD-----COLLR YQVITAMVLEVG ILEHVS
 OsIRT1 185 DQGRHRHGHHGHG HGMVAK-----PDDVEATQVQLRRNRV VQVLEIGIVVHVS
 OsIRT2 171 DHGHCHAHALGQADVAALSTTEAADQSGDVEAGNTTKAQLLRNRV VQVLEMGIVVHVS
 ZmIRT1 187 HEHWHSHGHGHG HGHAGGIVVADK-----PEDDEASQVQLRRNRV VQVLEMGIVVHVS
 AtIRT3 241 GHAAHGHGHG HGHGHVHGGLDAVN-----GARHTVVSQVLELG IIVHSHSI

AtIRT1 200 VIGLSLGATSDTCTIKGLI AALCFHOMFEGMGLGGCIIQA EYTNMKKFM AFFFVAVTTPF
 AtIRT2 211 VIGLSLGATNDSCTIKGLI IALCFHIFEG IGLGGCIIQADFTN VKKFLMAFFFTGTTTPC
 OsIRT1 235 VIGLGMGASQNVCTIRPLVAAMCFHOMFEGMGLGGCIIQA EYGRMRSVI VFFFSTTTPF
 OsIRT2 231 VIGLGMGASQNVCTIRPLVAALCFHOMFEGMGLGGCIIQA CYGGRTRSAI VFFFSTTTPF
 ZmIRT1 242 VIGLGMGASQNVCTIRPLVITAMCFHOFEGMGLGGCIIQA EYGA KMKAGI VFFFSTTTPF
 AtIRT3 286 IIGLSLGVSQSECTIRPLIAALS FHOIFEGFALGGCISQAQERNKSAITMACFFALTTPI

AtIRT1 260 GIALGLALSTVYQDNSPKALITVGLLNAC SAGLIT YMALVDLLAAEFMGPKLQGS IKMCF
 AtIRT2 271 GIEGLGIALSSIYRDN SPTALITVGLLNAC SAGMLI YMALVDLLATEFMGSM LQGSIKLQI
 OsIRT1 295 GIALGLALTRVYRDN SPTALIVVGLLNAA SAGLLHYMALVELLAADFMGPKLQGNVRLQL
 OsIRT2 291 GIALGLALTRVYSDS SPTALVVVGLLNAA SAGLLHYMALVELLAADFMGPKLQGNVRLQL
 ZmIRT1 302 GIALGLALTKVYRENSPTALIVVGLLNAA SAGLLHYMALVELLAADFMGPKLQSSVRLQL
 AtIRT3 346 GIEGCTAVASSFNSHSVGALVTEG IITDSI SAGILYMALVDLLAADFSTKMR CNFRLQI

AtIRT1 320 KCLTAALLGCGGMSI IAKWA
 AtIRT2 331 KCFTAALLGCAVMSVVAIWA
 OsIRT1 355 AAFLAVLLGAGGMSVMAKWA
 OsIRT2 351 AASLTAALLGAGGMSVMAKWA
 ZmIRT1 362 LCFLAVLLGAGGMSI IAKWA
 AtIRT3 406 VSYVMLFLGAGLMSI IAIWA