Predicted amino acid sequences of nitrate and nitrite transporters of *Arabidopsis thaliana* and *Petunia hybrida* used for phylogenetic analysis (Nouri et al.; Figure 7)

>AtNRT1-1

MSLPETKSDDILLDAWDFQGRPADRSKTGGWASAAMILCIEAVERLTTLGIGVNLVTYLTGTMHLGNATAANTVTNFLGTSFMLCLLGGFIADTFLGRYLTIAIFAAIQATGVSILTLSTIIPGLRPPRCNPTTSSHCEQASGIQLTVLYLALYLTALGTGGVKASVSGFGSDQFDETEPKERSKMTYFFNRFFFCINVGSLLAVTVLVYVQDDVGRKWGYGICAFAIVLALSVFLAGTNRYRFKKLIGSPMTQVAAVIVAAWRNRKLELPADPSYLYDVDDIIAAEGSMKGKQKLPHTEQFRSLDKAAIRDQEAGVTSNVFNKWTLSTLTDVEEVKQIVRMLPIWATCILFWTVHAQLTTLSVAQSETLDRSIGSFEIPPASMAVFYVGGLLLTTAVYDRVAIRLCKKLFNYPHGLRPLQRIGLGLFFGSMAMAVAALVELKRLRTAHAHGPTVKTLPLGFYLLIPQYLIVGIGEALIYTGQLDFFLRECPKGMKGMSTGLLLSTLALGFFFSSVLVTIVEKFTGKAHPWIADDLNKGRLYNFYWLVAVLVALNFLIFLVFSKWYVYKEKRLAEVGIELDDEPSIPMGH

>AtNRT1-4

MESKGSWTVADAVDYKGRPADKSKTGGWITAALILGIEVVERLSTMGIAVNLVTYLMETMHLPSSTSANIVTDFMGTSFLLCLLGGFLADSFLGRFKTIGIFSTIQALGTGALAVATKLPELRPPTCHHGEACIPATAFQMTILYVSLYLIALGTGGLKSSISGFGSDQFDDKDPKEKAHMAFFFNRFFFFISMGTLLAVTVLVYMQDEVGRSWAYGICTVSMAIAIVIFLCGTKRYRYKKSQGSPVVQIFQVIAAAFRKRKMELPQSIVYLYEDNPEGIRIEHTDQFHLLDKAAIVAEGDFEQTLDGVAIPNPWKLSSVTKVEEVKMMVRLLPIWATTIIFWTTYAQMITFSVEQASTMRRNIGSFKIPAGSLTVFFVAAILITLAVYDRAIMPFWKKWKGKPGFSSLQRIAIGLVLSTAGMAAAALVEQKRLSVAKSSSQKTLPISVFLLVPQFFLVGAGEAFIYTGQLDFFITQSPKGMKTMSTGLFLTTLSLGFFVSSFLVSIVKRVTSTSTDVGWLADNINHGRLDYFYWLLVILSGINFVVYIICALWFKPTKGKDSVEKENGKGFSVEDC

>AtNRT1-2

MVHVSSSHGAKDGSEEAYDYRGNPPDKSKTGGWLGAGLILGSELSERICVMGISMNLVTYLVGDLHISSAKSATIVTNFMGTLNLLGLLGGFLADAKLGRYKMVAISASVTALGVLLLTVATTISSMRPPICDDFRRLHHQCIEANGHQLALLYVALYTIALGGGGIKSNVSGFGSDQFDTSDPKEEKQMIFFFNRFYFSISVGSLFAVIALVYVQDNVGRGWGYGISAATMVVAAIVLLCGTKRYRFKKPKGSPFTTIWRVGFLAWKKRKESYPAHPSLLNGYDNTTVPHTEMLKCLDKAAISKNESSPSSKDFEEKDPWIVSTVTQVEEVKLVMKLVPIWATNILFWTIYSQMTTFTVEQATFMDRKLGSFTVPAGSYSAFLILTILLFTSLNERVFVPLTRRLTKKPQGITSLQRIGVGLVFSMAAMAVAAVIENARREAAVNNDKKISAFWLVPQYFLVGAGEAFAYVGQLEFFIREAPERMKSMSTGLFLSTISMGFFVSSLLVSLVDRVTDKSWLRSNLNKARLNYFYWLLVVLGALNFLIFIVFAMKHQYKADVITVVVTDDDSVEKEVTKKESSEFELKDIP

>AtPTR1

MEEKDVYTQDGTVDIHKNPANKEKTGNWKACRFILGNECCERLAYYGMGTNLVNYLESRLNQGNATAANNVTNWSGTCYITPLIGAFIADAYLGRYWTIATFVFIYVSGMTLLTLSASVPGLKPGNCNADTCHPNSSQTAVFFVALYMIALGTGGIKPCVSSFGADQFDENDENEKIKKSSFFNWFYFSINVGALIAATVLVWIQMNVGWGWGFGVPTVAMVIAVCFFFFGSRFYRLQRPGGSPLTRIFQVIVAAFRKISVKVPEDKSLLFETADDESNIKGSRKLVHTDNLKFFDKAAVESQSDSIKDGEVNPWRLCSVTQVEELKSIITLLPVWATGIVFATVYSQMSTMFVLQGNTMDQHMGKNFEIPSASLSLFDTVSVLFWTPVYDQFIIPLARKFTRNERGFTQLQRMGIGLVVSIFAMITAGVLEVVRLDYVKTHNAYDQKQIHMSIFWQIPQYLLIGCAEVFTFIGQLEFFYDQAPDAMRSLCSALSLTTVALGNYLSTVLVTVVMKITKKNGKPGWIPDNLNRGHLDYFFYLLATLSFLNFLVYLWISKRYKYKKAVGRAH

>AtPTR5

MEDDKDIYTKDGTLDIHKKPANKNKTGTWKACRFILGTECCERLAYYGMSTNLINYLEKQMNMENVSASKSVSNWSGTCYATPLIGAFIADAYLGRYWTIASFVVIYIAGMTLLTISASVPGLTPTCSGETCHATAGQTAITFIALYLIALGTGGIKPCVSSFGADQFDDTDEKEKESKSSFFNWFYFVINVGAMIASSVLVWIQMNVGWGWGLGVPTVAMAIAVVFFFAGSNFYRLQKPGGSPLTRMLQVIVASCRKSKVKIPEDESLLYENQDAESSIIGSRKLEHTKILTFFDKAAVETESDNKGAAKSSSWKLCTVTQVEELKALIRLLPIWATGIVFASVYSQMGTVFVLQGNTLDQHMGPNFKIPSASLSLFDTLSVLFWAPVYDKLIVPFARKYTGHERGFTQLQRIGIGLVISIFSMVSAGILEVARLNYVQTHNLYNEETIPMTIFWQVPQYFLVGCAEVFTFIGQLEFFYDQAPDAMRSLCSALSLTAIAFGNYLSTFLVTLVTKVTRSGGRPGWIAKNLNNGHLDYFFWLLAGLSFLNFLVYLWIAKWYTYKKTTGHAL

>AtNRT2-1

MGDSTGEPGSSMHGVTGREQSFAFSVQSPIVHTDKTAKFDLPVDTEHKATVFKLFSFAKPHMRTFHLSWISFSTCFVSTFAAAPLVPIIRENLNLTKQDIGNAGVASVSGSIFSRLVMGAVCDLLGPRYGCAFLVMLSAPTVFSMSFVSDAAGFITVRFMIGFCLATFVSCQYWMSTMFNSQIIGLVNGTAAGWGNMGGGITQLLMPIVYEIIRRCGSTAFTAWRIAFFVPGWLHIIMGILVLNLGQDLPDGNRATLEKAGEVAKDKFGKILWYAVTNYRTWIFVLLYGYSMGVELSTDNVIAEYFFDRFHLKLHTAGLIAACFGMANFFARPAGGYASDFAAKYFGMRGRLWTLWIIQTAGGLFCVWLGRANTLVTAVVAMVLFSMGAQAACGATFAIVPFVSRRALGIISGLTGAGGNFGSGLTQLLFFSTSHFTTEQGLTWMGVMIVACTLPVTLVHFPQWGSMFLPPSTDPVKGTEAHYYGSEWNEQEKQKNMHQGSLRFAENAKSEGGRRVRSAATPPENTPNNV

>AtNRT2-6

MAHNHSNEDGSIGTSLHGVTAREQVFSFSVQEDVPSSQAVRTNDPTAKFALPVDSEHRAKVFKPLSFAKPHMRAFHLGWISFFTCFISTFAAAPLVPVIRDNLDLTKTDIGNAGVASVSGAIFSRLAMGAVCDLLGARYGTAFSLMLTAPAVFSMSFVADAGSYLAVRFMIGFCLATFVSCQYWTSVMFTGKIIGLVNGCAGGWGDMGGGVTQLLMPMVFHVIKLTGATPFTAWRFAFFIPGILQIVMGILVLTLGQDLPDGNLSTLQKSGQVSKDKFSKVFWFAVKNYRTWILFMLYGFSMGVELTINNVISGYFYDRFNLTLHTAGIIAASFGMANFFARPFGGYASDVAARLFGMRGRLWILWILQTVGALFCIWLGRASSLPIAILAMMLFSMGTQAACGALFGVAPFVSRRSLGLISGLTGAGGNFGSGVTQLLFFSSSRFSTAEGLSLMGVMAVVCSLPVAFIHFPQWGSMFLRPSQDGEKSKEEHYYGAEWTEEEKSLGLHEGSIKFAENSRSERGRKAMLADIPTPETGSPAHV

>AtNRT2-3

MTHNHSNEEGSIGTSLHGVTAREQVFSFSVDASSQTVQSDDPTAKFALPVDSEHRAKVFNPLSFAKPHMRAFHLGWLSFFTCFISTFAAAPLVPIIRDNLDLTKTDIGNAGVASVSGAIFSRLAMGAVCDLLGARYGTAFSLMLTAPTVFSMSFVGGPSGYLGVRFMIGFCLATFVSCQYWTSVMFNGKIIGLVNGCAGGWGDMGGGVTQLLMPMVFHVIKLAGATPFMAWRIAFFVPGFLQVVMGILVLSLGQDLPDGNLSTLQKSGQVSKDKFSKVFWFAVKNYRTWILFVLYGSSMGIELTINNVISGYFYDRFNLKLQTAGIVAASFGMANFIARPFGGYASDVAARVFGMRGRLWTLWIFQTVGALFCIWLGRASSLPIAILAMMLFSIGTQAACGALFGVAPFVSRRSLGLISGLTGAGGNFGSGLTQLLFFSSARFSTAEGLSLMGVMAVLCTLPVAFIHFPQWGSMFLRPSTDGERSQEEYYYGSEWTENEKQQGLHEGSIKFAENSRSERGRKVALANIPTPENGTPSHV

>AtNRT2-4

MADGFGEPGSSMHGVTGREQSYAFSVESPAVPSDSSAKFSLPVDTEHKAKVFKLLSFEAPHMRTFHLAWISFFTCFISTFAAAPLVPIIRDNLNLTRQDVGNAGVASVSGSIFSRLVMGAVCDLLGPRYGCAFLVMLSAPTVFSMSFVGGAGGYITVRFMIGFCLATFVSCQYWMSTMFNGQIIGLVNGTAAGWGNMGGGVTQLLMPMVYEIIRRLGSTSFTAWRMAFFVPGWMHIIMGILVLTLGQDLPDGNRSTLEKKGAVTKDKFSKVLWYAITNYRTWVFVLLYGYSMGVELTTDNVIAEYFFDRFHLKLHTAGIIAASFGMANFFARPIGGWASDIAARRFGMRGRLWTLWIIQTLGGFFCLWLGRATTLPTAVVFMILFSLGAQAACGATFAIIPFISRRSLGIISGLTGAGGNFGSGLTQLVFFSTSTFSTEQGLTWMGVMIMACTLPVTLVHFPQWGSMFLPSTEDEVKSTEEYYYMKEWTETEKRKGMHEGSLKFAVNSRSERGRRVASAPSPPPEHV

>AtNRT2-7

MEPSQRNTKPPSFSDSTIPVDSDGRATVFRPFSLSSPHSRAFHLAWLSLFSCFFSTFSIPPLVPVISSDLNLSASTVSAAGIASFAGSIFSRLAMGPLCDLIGPRTSSAILSFLTAPVILSASLVSSPTSFILVRFFVGFSLANFVANQYWMSSMFSGNVIGLANGVSAGWANVGAGISQLLMPLIYSTIAEFLPRAVAWRVSFVFPAIFQVTTAVLVLLYGQDTPHGNRKNSNQNKLTIPEEEEVLVVEEDERSSFVEILIGGLGNYRAWILALLYGYSYGVELTTDNVIAGYFYERFGVNLEAAGTIAASFGISNIASRPAGGMISDALGKRFGMRGRLWGLWIVQSVAGLLCVLLGRVNSLWGSILVMWVFSVFVQAASGLVFGVVPFVSTRSLGVVAGITGSGGTVGAVVTQFLLFSGDDVRKQRSISLMGLMTFVFALSVTSIYFPQWGGMCCGPSSSSEEEDISRGLLVEDEDEEGKVVSGSLRPVC

>AtNRT2-5

MEVEGKGGEAGTTTTTAPRRFALPVDAENKATTFRLFSVAKPHMRAFHLSWFQFFCCFVSTFAAPPLLPVIRENLNLTATDIGNAGIASVSGAVFARIVMGTACDLFGPRLASAALTLSTAPAVYFTAGIKSPIGFIMVRFFAGFSLATFVSTQFWMSSMFSGPVVGSANGIAAGWGNLGGGATQLIMPIVFSLIRNMGATKFTAWRIAFFIPGLFQTLSAFAVLLFGQDLPDGDYWAMHKSGEREKDDVGKVISNGIKNYRGWITALAYGYCFGVELTIDNIIAEYFFDRFHLKLQTAGIIAASFGLANFFARPGGGIFSDFMSRRFGMRGRLWAWWIVQTSGGVLCACLGQISSLTVSIIVMLVFSVFVQAACGLTFGVVPFISRRSLGVVSGMTGAGGNVGAVLTQLIFFKGSTYTRETGITLMGVMSIACSLPICLIYFPQWGGMFCGPSSKKVTEEDYYLAEWNDEEKEKNLHIGSQKFAETSISERGRATTTHPQT

>AtNRT2-2

MGSTDEPGSSMHGVTGREQSYAFSVDGSEPTNTKKKYNLPVDAEDKATVFKLFSFAKPHMRTFHLSWISFSTCFVSTFAAAPLIPIIRENLNLTKHDIGNAGVASVSGSIFSRLVMGAVCDLLGPRYGCAFLVMLSAPTVFSMSFVSDAAGFITVRFMIGFCLATFVSCQYWMSTMFNSQIIGLVNGTAAGWGNMGGGITQLLMPIVYEIIRRCGSTAFTAWRIAFFVPGWLHIIMGILVLTLGQDLPGGNRAAMEKAGEVAKDKFGKILWYAVTNYRTWIFVLLYGYSMGVELSTDNVIAEYFFDRFHLKLHTAGIIAACFGMANFFARPAGGWASDIAAKRFGMRGRLWTLWIIQTSGGLFCVWLGRANTLVTAVVSMVLFSLGAQAACGATFAIVPFVSRRALGIISGLTGAGGNFGSGLTQLVFFSTSRFTTEEGLTWMGVMIVACTLPVTLIHFPQWGSMFFPPSNDSVDATEHYYVGEYSKEEQQIGMHLKSKLFADGAKTEGGSSVHKGNATNNA

>AtNitr1

MEEQSKNKISEEEKQLHGRPNRPKGGLITMPFIFANEICEKLAVVGFHANMISYLTTQLHLPLTKAANTLTNFAGTSSLTPLLGAFIADSFAGRFWTITFASIIYQIGMTLLTISAIIPTLRPPPCKGEEVCVVADTAQLSILYVALLLGALGSGGIRPCVVAFGADQFDESDPNQTTKTWNYFNWYYFCMGAAVLLAVTVLVWIQDNVGWGLGLGIPTVAMFLSVIAFVGGFQLYRHLVPAGSPFTRLIQVGVAAFRKRKLRMVSDPSLLYFNDEIDAPISLGGKLTHTKHMSFLDKAAIVTEEDNLKPGQIPNHWRLSTVHRVEELKSVIRMGPIGASGILLITAYAQQGTFSLQQAKTMNRHLTNSFQIPAGSMSVFTTVAMLTTIIFYDRVFVKVARKFTGLERGITFLHRMGIGFVISIIATLVAGFVEVKRKSVAIEHGLLDKPHTIVPISFLWLIPQYGLHGVAEAFMSIGHLEFFYDQAPESMRSTATALFWMAISIGNYVSTLLVTLVHKFSAKPDGSNWLPDNNLNRGRLEYFYWLITVLQAVNLVYYLWCAKIYTYKPVQVHHSKEDSSPVKEELQLSNRSLVDE

>PhNRT2\_cn8666

MGDIEGEPGSSMHGVTGREPVLAFSVASPMVPTDTTAKFSVPVDTEHKAKVFKFYSFSKPHGLTFQLSWISFFTCFVSTFAAAPLVPIIRDNLNLTKMDVGNAGVASVSGSILSRLVMGAVCDLLGPRYGCAFLIMLSAPTVFCMSFVSSAGGYVAVRFMIGFSLATFVSCQYWMSTMFNSQIIGLVNGTAAGWGNMGGGATQLLMPLLYDIIRRTGSTPFTAWRIAFFIPGWLHVVMGILVLTLGQDLPDGNRGSLQKTGTVAKDKFGNILWYAATNYRTWIFVLLYGYSMGVELSTDNVIAEYFFDRFDLKLHTAGIIAATFGMANLLARPFGGFSSDYAAKKFGMRGRLWVLWILQTLGGVFCVLLGRSNSLPIAVTFMILFSIGAQAACGATFGIIPFISRRSLGIISGMTGAGGNFGSGLTQLLFFTSSKYSTATGLTYMGIMIIGCTLPVTLCHFPQWGSMFLPPSKDPVKGTEEHYYTSEYTEAEKQKGMHQGSLKFAENCRSERGKRVGSAPTPPNLTPNRV

>PhNRT2b\_cn7864

MGDIEGEPGSSMHGVTGREPVLAFSVASPMVPTDTTAKFSVPVDTEHKAKVFKFYSFSKPHGLTFQLSWISFFTCFVSTFAAAPLVPIIRDNLNLTKMDVGNAGVASVSGSILSRLVMGAVCDLLGPRYGCAFLIMLSAPTVFCMSFVSSAGGYVAVRFMIGFSLATFVSCQYWMSTMFNSQIIGLVNGTAAGWGNMGGGATQLLMPLLYDIIRRTGSTPFTAWRIAFFIPGWLHVVMGILVLTLGQDLPDGNRGSLQQTGTVAKDKFGNILWYAATNYRTWIFVLLYGYSMGVELSTDNVIAEYFFDRFDLKLHTAGIIAATFGMANLLARPFGGFSSDYAAKKFGMRGRLWVLWILQTLGGVFCVLLGRSNSLPIAITFMILFSIGAQAACGATFGIIPFISRRSLGIISGMTGAGGNFGSGLTQLLFFTSSKYSTATGLTYMGIMIIGCTLPVTLCHFPQWGSMFLPPSKDPVKGTEEHYYTSEYTEDERQKGMHQGSLKFAENCRSERGKRVASAPTPPNLTPNRV

>PhNRT1\_cn5272

MEESKKSTTAWFACCTKCLPFSSSKSSSLSFPSPEKSISYDEEKQGCSDATSRRKPGGWRAMPYVLGNETFERLASIGLLANFMQFLLTQFHMDQVSASNVLNIWSGFTNFIPLLGAYLSDAYVGRFWTIAFASVFETMGMLTLTMIPWLPKLHPPPCKVGQKCQGPNKSQMGFLALGLGFLSIGSGGIRPCSIPFGVDQFDSTTNEGRKGIASFFNWYYTSFTVVLIIALTLVVCIQDSVSWVIGVGIPTVLMFLSLILFFIGTRVYVHVKPEGSIFSSIVQVFVVTYKKRKLKLSDEHGSNDVVLYDPPPQIGTIVKKLPLTNKYRSLNKAAIVMEGEVNTDGTRSNKWRLCSIQQIEEVKCLLQIIPVWASGIICFTAMAQQGTFTMSQALKMDRHLGPNFQIPAGSLSVISMITVGVWLPIYDRLIVPSIRKRTGNDGGITLLQRVGIGMVFSILSMVAAGLIEKVRRDSAIMHNSPDGIAPITVMWLAPQLILMGFAEAFNILGPIEFFHKEFPEHMSSLANSLFSVTVAGASYLSSLLVNILHKTTGGHGHPDWLTKDINEGRIENFYYLIAGLGVLNLFYFIYVSRQYQYKTRLVVDDGIKPFNSDVALHDMKY

>PhNRT1b\_SGN-U210769

MEVNKEEVSAKNEPKYPGIKAMPFIIGNETFEKLGTIGTSSNLLVYLTTVFNMKSITATNLINVFNGTCNFGTLLGAFLTDTYLGRYKTLGIASISSFLGMLFLTLTAAISKLHPPHCGTEKDSICLEPTTGQLAFLLCSFGFLVVGASGIRPCNLAFGADQFNPNTESGRRGNNSFFNWYYLTFTFAMMVSLTVIVYIQSSVNWALGLAIPTFLMFLSCVFFFIGTKIYVMILPEGSPLTSMVQVLVAAIKKRRLKLPEQPQDTLFNHVSTNTVNSELPYTDQFRFLNKACIITPEDRIKEDGSAANPWRLCRIQQVEEVKCVVRVFPIWIAGLVYYIVLVQMQTYVVFQALQSDRRLVKSSNFQVPAATYAVFSMLSMTIWILIYDRIVVPFLRKITKKEAGITMLQRMGIGLFISIFTVIISAVVETRRRNMALSHPTLGNGSRKGEVSAMSANWLIPQLALAGISEAFTVIAEVEFFYKQFPENMRSFAGSFLFCGFALASYASTMLISIVHRTTRISDTENWLAEDLNKGRLDYFYYLVAALEVFNLVYFLICAKWYKYKGTQNHNLEVSMEKLEPTKPLV

>PhNitr1\_CL1918\_cn5943

MKGGMITMPFIFANEICEKLAVVGFGANMIIYLTNELHLPLTKAANTLTNFGGTASLTPLLGAFLADTFAGRFWTITVASIIYQIGMIILTLSAILPQLRPPSCKDDEICKEANSGQLAILYVSLLLTAFGSGGIRPCVVAFGADQFDETDPKQKTQTWKFFNWYYFCMGVSMLVAVTVVVYIQDNIGWGVGFGVPTIAMLISIIVFIFGYPLYRNLDPAGSPFTRLLQVCVAAYKKRKLPMVSDPSYLYQNGELDAAISTAGKLVHTKQMKFLDRAAIVTEEDSPKSPNLWRLNTVHRIEELKSVIRMGPIWASGIILITAYAQQHTFSVQQAKTMDRHLTNSFQIPAASMTVFTLIAMLCTIAFYDRVFVPIARRFTGLERGISFLSRMAIGFFISVLATLVAGFIEVKRKEAALAHGLIDKSKAIVPISVFWLVPQYCLHGIAEAFMSIGHLEFFYDQAPESMRSTATALFWTSISAGNYLSTLLVSLVHKFTSGPGGSNWLPDDNLNKGKLEYFYWLITILQVVNLIYYLFCAKFYTFKPIQVQNTEDLDTKKDVELVNNV