

AtNRT1.1	MSLFEETKSTDTLLLAWLFCGGRFAIRSKTCGWASAAAMILCIEAVERITITIGIGVNLVTYLTCTMHLGNATAANTVTNFICTSEFMCILGCFIACFTIGRYL	100
BcNRT1.1	MSLFEETKTQTLLLAWLFCGGRFAIRSKTCGWASAAAMILCIEAVERITITIGIGVNLVTYLTCTMHLGNATAANTVTNFICTSEFMCILGCFIACFTIGRYL	99
BrNRT1.1	MSLFEETKTQTLLLAWLFCGGRFAIRSKTCGWASAAAMILCIEAVERITITIGIGVNLVTYLTCTMHLGNATAANTVTNFICTSEFMCILGCFIACFTIGRYL	99
Consensus	mslpetk lldawdfqgrpadrsktggwasaamilcieaverlittigigvnlvtyltgtrhlgndataantvtnflgtsfmlcllggfiactflgryl	
AtNRT1.1	TIAIFAAICATGVSIITLSTIIPGLRFPFRNFTTSSHCQASGIGLTIVLYALYLTAIGTCGGVKASVSGFGSCFDTEPKERSKMTYFFNRFFFCINVG	200
BcNRT1.1	TIAIFAAICATGVSIITLSTIIPGLRFPFRNFTTSSHCQASGIGLTIVLYALYLTAIGTCGGVKASVSGFGSCFDTEPKERSKMTYFFNRFFFCINVG	199
BrNRT1.1	TIAIFAAICATGVSIITLSTIIPGLRFPFRNFTTSSHCQASGIGLTIVLYALYLTAIGTCGGVKASVSGFGSCFDTEPKERSKMTYFFNRFFFCINVG	199
Consensus	tiaifaaicatgvsiltlstiipglrprc pttsshc qasgigltvlyalyltalgtggvkasvsgfgsdqfd tepkers rtyffnrfffcinvg	
AtNRT1.1	SLIMAVTVLVYQCDIVGRKWGYGICAAIVLSISVFLAGTNRYRFKKIIGSFMTQVAVVAAWNRRIELHAFESLYDMLDIIAAEGSMKQKQKLPHTE	300
BcNRT1.1	SLIMAVTVLVYQCDIVGRKWGYGICAAIVLSISVFLAGTNRYRFKKIIGSFMTQVAVVAAWNRRIELHAFESLYDMLDIIAAEGSMKQKQKLPHTE	299
BrNRT1.1	SLIMAVTVLVYQCDIVGRKWGYGICAAIVLSISVFLAGTNRYRFKKIIGSFMTQVAVVAAWNRRIELHAFESLYDMLDIIAAEGSMKQKQKLPHTE	299
Consensus	sl avtvlv y qcdvgrkwgygica aivl ls flagtnryrfkkligsfpmqtva v vaawnr r lelp dqs lyd dd iaegsmk kqklpht	
AtNRT1.1	QFRSLDKAARFQCEACVTNENKWTILSTIIDVEVKQIVRMFIWATCILEFWTVHAQITLISVACSETLIRIGSFEIPFASAVAVFYVGLLIITAVYD	400
BcNRT1.1	QFRSLDKAARFQCEACVTNENKWTILSTIIDVEVKQIVRMFIWATCILEFWTVHAQITLISVACSETLIRIGSFEIPFASAVAVFYVGLLIITAVYD	399
BrNRT1.1	QFRSLDKAARFQCEACVTNENKWTILSTIIDVEVKQIVRMFIWATCILEFWTVHAQITLISVACSETLIRIGSFEIPFASAVAVFYVGLLIITAVYD	399
Consensus	qfrsldkaa r dge t nv nkwtilst td eevkqivrmfiwatcilfwtvhaqitlislvaqset dr igsfeippa ravfy glllittavdyd	
AtNRT1.1	RVAILCKKLFNYEHGIRFLCRIGLGLFEGSMANAVAAVLEIKRLTAHAHGETVKTIELGFSILIPCYLIVGIGEALITYGCLDFFIRECPKMGKMTST	500
BcNRT1.1	RVAILCKKLFNYEHGIRFLCRIGLGLFEGSMANAVAAVLEIKRLTAHAHGETVKTIELGFSILIPCYLIVGIGEALITYGCLDFFIRECPKMGKMTST	499
BrNRT1.1	RVAILCKKLFNYEHGIRFLCRIGLGLFEGSMANAVAAVLEIKRLTAHAHGETVKTIELGFSILIPCYLIVGIGEALITYGCLDFFIRECPKMGKMTST	499
Consensus	r ai lckklfnypghlrplqrlgl m ravaalve krlltahahgetvktlplgf llipqylivgigealiytgcldffirecpkmgk rst	
AtNRT1.1	GILLSTIALGFFHFSSVLIVTEKTRKAHPWIADINKRLYNFYWLVAVVAINFLFLVFSKWYVYKEKRIADGIELDEEFIPMG	589
BcNRT1.1	GILLSTIALGFFHFSSVLIVTEKTRKAHPWIADINKRLYNFYWLVAVVAINFLFLVFSKWYVYKEKRIADGIELDEEFIPMG	588
BrNRT1.1	GILLSTIALGFFHFSSVLIVTEKTRKAHPWIADINKRLYNFYWLVAVVAINFLFLVFSKWYVYKEKRIADGIELDEEFIPMG	588
Consensus	gillstlaigffhfssvlvtevk t kahpwiaaddlnkgrlynfylwlvav valnfl flvfskwyvykekrla giel de iprg	
AtNRT1.2MEVFEFVSFWEGYALWRNRAAVKCRHCGMLA	31
BcNRT1.2MLA	3
BrNRT1.2	MKSFSNNKGFNSFFISPNWTISQCILSSIYNINILITTYIYFIIKITSIFTSFQCSIRERKKERIMEVFEFVSFWEGYALWRNRAAVKCRHCGMLA	100
Consensus	mla rla	
AtNRT1.2	ASFVLVVEILENLAYLANASNVLVLYREYMHSPSKSANDVNFMCATALLALIGCFISDAFFSTYVIFLISASIEFGLIIITICARTPSLMFPCDGP	131
BcNRT1.2	ASFVLVVEILENLAYLANASNVLVLYREYMHSPSKSANDVNFMCATALLALIGCFISDAFFSTYVIFLISASIEFGLIIITICARTPSLMFPCDGP	103
BrNRT1.2	ASFVLVVEILENLAYLANASNVLVLYREYMHSPSKSANDVNFMCATALLALIGCFISDAFFSTYVIFLISASIEFGLIIITICARTPSLMFPCDGP	200
Consensus	asf lvveilenlaylanasnvlvlylreymh spsksandvnmfctafllaligglfisdaffst iflisasiefgliliiitqartpslmpp cd p	
AtNRT1.2	TCESVSGSKAAMLFVGLYIYVAIGVGGIKGSIASHGAEQFDESTFKRKRSTYFNYFVFCIACCAIVAVTFVWVLEDNKGWEGFCVSTIAIFVSILIFL	231
BcNRT1.2	TCESVSGSKAAMLFVGLYIYVAIGVGGIKGSIASHGAEQFDESTFKRKRSTYFNYFVFCIACCAIVAVTFVWVLEDNKGWEGFCVSTIAIFVSILIFL	203
BrNRT1.2	TCESVSGSKAAMLFVGLYIYVAIGVGGIKGSIASHGAEQFDESTFKRKRSTYFNYFVFCIACCAIVAVTFVWVLEDNKGWEGFCVSTIAIFVSILIFL	300
Consensus	tce vsgskaamlfvgllyiyvaigvggikgs l shgaeqfdestfkrkrst fnyfvfclacgalvavtfvvwlednkgwegfcvstiaifvsilifl	
AtNRT1.2	SCSRYRNKIFCGSPITITILKVLAAASVKSCSGSSNAVAMSVSSESNHCVSKGKKEVESQCELEKFCFEAIPF.FAQITNSIRVINGADEKHEVRL	330
BcNRT1.2	SCSRYRNKIFCGSPITITILKVLAAASVKSCSGSSNAVAMSVSSESNHCVSKGKKEVESQCELEKFCFEAIPF.FAQITNSIRVINGADEKHEVRL	298
BrNRT1.2	SCSRYRNKIFCGSPITITILKVLAAASVKSCSGSSNAVAMSVSSESNHCVSKGKKEVESQCELEKFCFEAIPF.FAQITNSIRVINGADEKHEVRL	395
Consensus	sgs frynkifcgsplititilkvllaasvks csgssnavamsv ssnhcvskgk keves qcelekrq e pp qltnsl ln aa ekp h l	
AtNRT1.2	LECTQCCVEDVKIVLKMFLIFACTIMINCCLAQLSTFSVQCAASMNKIGSLKIPFASLHVFFVVFIMILAPIYDHLIIPFARKTKTETGVTHLQRIGV	430
BcNRT1.2	LECTQCCVEDVKIVLKMFLIFACTIMINCCLAQLSTFSVQCAASMNKIGSLKIPFASLHVFFVVFIMILAPIYDHLIIPFARKTKTETGVTHLQRIGV	398
BrNRT1.2	LECTQCCVEDVKIVLKMFLIFACTIMINCCLAQLSTFSVQCAASMNKIGSLKIPFASLHVFFVVFIMILAPIYDHLIIPFARKTKTETGVTHLQRIGV	495
Consensus	lect qccvedvkivlkrplifactimnccqlaqlstfsvqqaasmntkigslkipaslp fpvffimilapiydhliipfark tktetgvthlqrigv	
AtNRT1.2	GLVISILANAAVAALVEIKRKCVAKDSLIDSKETLEP.TFLWIAIQYIFLGSADLFTLAGLIEYFFTEAPSMRSLATSI.SWASIAMGYLSSVIVSIVNS	530
BcNRT1.2	GLVISILANAAVAALVEIKRKCVAKDSLIDSKETLEP.TFLWIAIQYIFLGSADLFTLAGLIEYFFTEAPSMRSLATSI.SWASIAMGYLSSVIVSIVNS	498
BrNRT1.2	GLVISILANAAVAALVEIKRKCVAKDSLIDSKETLEP.TFLWIAIQYIFLGSADLFTLAGLIEYFFTEAPSMRSLATSI.SWASIAMGYLSSVIVSIVNS	595
Consensus	glvlsilaravaalveikrkqvakd glldsketlp tflwialqylflgsadlftlaglleyffteap smrslatslswasiamgyllssvivsivns	
AtNRT1.2	ITGSSGNFWIRGKSNRYKLYFYWLMCVLSAANFIHYLFWAMRYKYRSTGSR	584
BcNRT1.2	ITGSSGNFWIRGKSNRYKLYFYWLMCVLSAANFIHYLFWAMRYKYRSTGSR	546
BrNRT1.2	ITGSSGNFWIRGKSNRYKLYFYWLMCVLSAANFIHYLFWAMRYKYRSTGSR	649
Consensus	itgssgn pwlrg inrykldyfywlmcvlsaanflhylfwamr	
AtNRT2.1	MCDSTIGPEGSSMHCVTGREGFAFVSQSPIVETKTAKEDLVIDEHKATVFKLFSFAKPHMRTFHLWSISFSTCFVSTFAAFLVPIIRENLNLTQCDI	100
BcNRT2.1MHCVTGREGFAFVSQSPIVETKTAKEDLVIDEHKATVFKLFSFAKPHMRTFHLWSISFSTCFVSTFAAFLVPIIRENLNLTQCDI	89
BrNRT2.1	MCDSTIGPEGSSMHCVTGREGFAFVSQSPIVETKTAKEDLVIDEHKATVFKLFSFAKPHMRTFHLWSISFSTCFVSTFAAFLVPIIRENLNLTQCDI	100
Consensus	mhgvtgreq fafsv spiv toktakfdlpvd ehkatvfkf lfs fakphmrtfhlswisfstcfvstfaaflvp iirenlnltkqdi	
AtNRT2.1	GNACVASVSGSIFSRIVMCAVCDLLCFRYGCAFLVMSAPTVFMSFVSQAGGITVRFMIGFCLATFVSCQYWMSTMFNSQITGLVNCTAACGWNMGCG	200
BcNRT2.1	GNACVASVSGSIFSRIVMCAVCDLLCFRYGCAFLVMSAPTVFMSFVSQAGGITVRFMIGFCLATFVSCQYWMSTMFNSQITGLVNCTAACGWNMGCG	189
BrNRT2.1	GNACVASVSGSIFSRIVMCAVCDLLCFRYGCAFLVMSAPTVFMSFVSQAGGITVRFMIGFCLATFVSCQYWMSTMFNSQITGLVNCTAACGWNMGCG	200
Consensus	gnagvasvsgsifsrivmcavcdllcprygcaflvmsaptvfmsfvs a ggitvrfmigfclatfvscqymstmrnfnsqiiglvngtaagwnmgcg	
AtNRT2.1	VTQLIMEIYVEIIRRCGSTAFTAWRAFFVEGWLHIIMCVLVNLGCDLPIGNRSALERRKEVAKCKEGLIMWYAVTNYRTWIFVLLYCYSMCVELSTDN	300
BcNRT2.1	VTQLIMEIYVEIIRRCGSTAFTAWRAFFVEGWLHIIMCVLVNLGCDLPIGNRSALERRKEVAKCKEGLIMWYAVTNYRTWIFVLLYCYSMCVELSTDN	289
BrNRT2.1	VTQLIMEIYVEIIRRCGSTAFTAWRAFFVEGWLHIIMCVLVNLGCDLPIGNRSALERRKEVAKCKEGLIMWYAVTNYRTWIFVLLYCYSMCVELSTDN	300
Consensus	tqlmpiyveiirrcg taftawr affvgwlhiimg lvlnlgcdlpdgnr lek gevakckgki wyavtnyrtwifvlllygysmgvelstdn	
AtNRT2.1	VIAEYFDFRHLKLHTAGLIAACFGMANFFARPAGGYASDAAKYFGMRGRILWLWIQTAGGLFCVWIGRANTILVTAVVAMVLFSCQAACGATFAIV	400
BcNRT2.1	VIAEYFDFRHLKLHTAGLIAACFGMANFFARPAGGYASDAAKYFGMRGRILWLWIQTAGGLFCVWIGRANTILVTAVVAMVLFSCQAACGATFAIV	389
BrNRT2.1	VIAEYFDFRHLKLHTAGLIAACFGMANFFARPAGGYASDAAKYFGMRGRILWLWIQTAGGLFCVWIGRANTILVTAVVAMVLFSCQAACGATFAIV	400
Consensus	viae yffdrfhklhtag iaacfgmanffarpaggyasd aakyfgmgrgrlw lwiiqtagglfcvwlgrantilvtavvamvlfscqaacgatfaiv	
AtNRT2.1	PFVSRRALGIIISGLTCAGGNFGSGLTCLIFFSTSEFTTEQGLTWMCMVIVACTIPVTIHFPCWGSMEIPFESTILPVKCTEHHYASEWNECEKQKNHQQ	500
BcNRT2.1	PFVSRRALGIIISGLTCAGGNFGSGLTCLIFFSTSEFTTEQGLTWMCMVIVACTIPVTIHFPCWGSMEIPFESTILPVKCTEHHYASEWNECEKQKNHQQ	489
BrNRT2.1	PFVSRRALGIIISGLTCAGGNFGSGLTCLIFFSTSEFTTEQGLTWMCMVIVACTIPVTIHFPCWGSMEIPFESTILPVKCTEHHYASEWNECEKQKNHQQ	500
Consensus	pfvssralqiiisgltcaggnfgsgltcll ffstseftteqgltwmcmvivactipvti hfpcwgsmlfpsttpvkcte hy y sewnecekqn hqq	
AtNRT2.1	SIRFAENAKSEGGERSAATPEPTENN	529
BcNRT2.1	SIRFAENAKSEGGERSAATPEPTENN	510
BrNRT2.1	SIRFAENAKSEGGERSAATPEPTENN	528
Consensus	sirfaenaksegg r isa	

Figure S2. Multiple sequence alignment of NRT protein sequences from *Brassica Campestris* (Bc), *Arabidopsis thaliana* (At), and *Brassica rapa* (Br).