NCED3(AT3G14440): global tree
File name: NCED.njtree0
152 aa residues 179 OTU included.
Results of 24 partial trees included.
Assemble Job Id:B2HchO   selectNalign jobid: B7iiJ2
Tree job id: yPyiRW
BP values out of 100
Analyzed by Maruyama/Fujita
Date: Thu Sep 07 22:08:21 JST 2006

YP_444280 *Salinibacter ruber DSM 13855* ABC44374 15,15' beta carotene dioxygenase/15,15' beta carotene dioxygenase
YP_134677 *Haloarcula marismortui ATCC 43049* AAV44971 retinal pigment epithelial membrane protein/retinal pigment epithelial membrane protein
ZP_918460 *Oryza sativa* (japonica cultivar-group) BAB63485 BAB64685 putative retinal pigment epithelium 65 protein/retinal pigment epithelium 65-like /Beta,beta-carotene 9',10'-dioxygenase (Beta-carotene dioxygenase 2) (B-diox-II)-like
AT4G32810 = NP_195007 AAL66961 AAM91666 CCD8 (CAROTENOID CLEAVAGE DIOXYGENASE 8)/unknown protein /unknown protein
AAS66906 *Pisum sativum* AAS66907 carotenoid cleavage dioxygenase RAMOSUS1/dioxygenase RAMOSUS1
NP_926635 *Gloeobacter violaceus PCC 7421* BAC91630 similar to lignostilbene-alpha,beta-dioxygenase/gll3689
ZP_01005995 *Prochlorococcus marinus str. MIT 9211* EAQ09733 lignostilbene-alpha, beta-dioxygenase/lignostilbene-alpha, beta-dioxygenase
NP_895705 *Prochlorococcus marinus str. MIT 9313* CAE22054 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_874706 *Prochlorococcus marinus str. CCMP1375* AAP99358 Lignostilbene-alpha, beta-dioxygenase/Lignostilbene-alpha, beta-dioxygenase
YP_292837 *Prochlorococcus marinus str. NATL2A* AAZ59134 lignostilbene-alpha, beta-dioxygenase/lignostilbene-alpha, beta-dioxygenase
ZP_01123573 *Synechococcus sp. WH 7805* EAR19257 lignostilbene-alpha,beta-dioxygenase and related enzyme-like protein/lignostilbene-alpha,beta-dioxygenase and related enzyme-like protein
ZP_01078908 *Synechococcus sp. RS9917* EAQ70033 lignostilbene-alpha,beta-dioxygenase/lignostilbene-alpha,beta-dioxygenase-like protein
YP_380552 *Synechococcus sp. CC9605* ABB33997 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzymes-like
YP_376266 *Synechococcus sp. CC9902* ABB25223 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzyme-like
NP_896322 *Synechococcus sp. WH 8102* CAE06742 similar to lignostilbene-alpha,beta-dioxygenase and related enzyme/similar to lignostilbene-alpha,beta-dioxygenase and related enzymes
ZP_01083531 *Synechococcus sp. WH 5701* EAQ76512 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzyme-like
NP_396779 *Prochlorococcus marinus subsp. pastoris str. CCMP1986* CAE18739 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_892399 *Prochlorococcus marinus subsp. pastoris str. CCMP1986* CAE18739 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
YP_399215 *Synechococcus elongatus PCC 7942* YP_172025 *Synechococcus elongatus PCC 6301* AAC12875 *Synechococcus elongatus PCC 6301* ABB56228 *Synechococcus elongatus PCC 7942* Beta-carotene 15,15'-dioxygena
NP_00112423 *Nostoc punctiforme PCC 73102* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
YP_321755 *Anabaena variabilis ATCC 29413* ABA20860 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_488324 *Nostoc sp. PCC 7120* BAB75983 lignostilbene-alpha,beta-dioxygenase/lignostilbene-alpha,beta-dioxygenase
ZP_00673332 *Trichodesmium erythraeum IMS101* EAQ27722 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_441748 *Synechocystis sp. PCC 6803* 2BIX 2BIX 2BIW 2BIW BAA18428 lignostilbene-alpha,beta-dioxygenase/A Chain A, Crystal Structure Of Apocarotenoid Cleavage Oxygenase From Synechocystis, Fe-Free Apoenzyme /B Chain B, Crystal Structure Of
NP_680806 *Thermosynechococcus elongatus BP-1* BAC07568 lignostilbene-alpha,beta-dioxygenase/lignostilbene-alpha, beta-dioxygenase
YP_474526 *Synechococcus sp. JA-3-3Ab* ABC99263 putative lignostilbene-alpha,beta-dioxygenase/putative lignostilbene-alpha, beta-dioxygenase
YP_476524 *Synechococcus sp. JA-2-3B'a(2-13)* ABD01261 lignostilbene-alpha, beta-dioxygenase, putative/lignostilbene-alpha, beta-dioxygenase, putative
gnl|CMER|CMS362C_9-cis-epoxycarotenoid_dioxygenase,_neoxanthin_cleavage_enzyme-like_protein
NP_931511 *Photorhabdus luminescens subsp. laumondii TTO1* CAE16708 hypothetical protein plu4336/unnamed protein product
NP_00111018 *Nostoc punctiforme PCC 73102* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
ZP_00517182 *Crocosphaera watsonii WH 8501* EAM49717 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_925720 *Gloeobacter violaceus PCC 7421* BAC90715 hypothetical protein gll2774/gll2774
NP_441785 *Synechocystis sp. PCC 6803* BAA18465 hypothetical protein slr1648/slr1648
NP_954457 *Geobacter sulfurreducens PCA* AAR36807 dioxygenase, putative/dioxygenase, putative
YP_385396 *Geobacter metallireducens GS-15* ABB32671 Twin-arginine translocation pathway signal/Twin-arginine translocation pathway signal
ZP_01204670 *Mycobacterium vanbaalenii PYR-1* EAS25662 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_521773 *Ralstonia solanacearum GMI1000* CAD17363 *Ralstonia solanacearum* PROBABLE DIOXYGENASE SIGNAL PEPTIDE PROTEIN/PROBABLE DIOXYGENASE SIGNAL PEPTIDE PROTEIN
ZP_00633522 *Shewanella denitrificans OS217* EAN72094 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00516036 *Crocosphaera watsonii WH 8501* EAM50863 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
YP_01021894 *Polaromonas naphthalenivorans CJ2* EAQ19519 similar to neoxanthin cleavage enzyme/similar to neoxanthin cleavage enzyme
YP_119469 *Nocardia farcinica IFM 10152* BAD58105 putative dioxygenase/putative dioxygenase
→Smo_NCED918494264_1
ZP_01195454 *Mycobacterium flavescens PYR-GCK* EAS08286 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_01194853 *Mycobacterium flavescens PYR-GCK* EAS08782 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_959399 *Mycobacterium avium subsp. paratuberculosis K-10* AAS02782 hypothetical protein MAP0465/hypothetical protein MAP_0465
ZP_01205061 *Mycobacterium vanbaalenii PYR-1* EAS26053 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_215168 *Mycobacterium tuberculosis H37Rv* ZP_00772732 *Mycobacterium tuberculosis F11* NP_335094 *Mycobacterium tuberculosis CDC1551* NP_854331 *Mycobacterium bovis AF2122/97* ZP_00879917 *Mycobacterium* C CAB09380 *Mycobacterium tubercu*
NP_963062 *Mycobacterium avium subsp. paratuberculosis K-10* AAS06678 hypothetical protein MAP4128/hypothetical protein MAP_4128
AAK06796 *Streptomyces antibioticus* putative dioxygenase SimC5
AAL15592 *Streptomyces antibioticus* Sim14
NP_624657 *Streptomyces coelicolor A3(2)* CAB56138 dioxygenase (secreted protein)/putative dioxygenase (putative secreted protein)
NP_00577676 *Sphingopyxis alaskensis RB2256* EAN47757 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_01025949 *Burkholderia mallei 10229* ZP_00467146 *Burkholderia mallei 10399* ZP_00887328 *Burkholderia pseudomallei 1106a* ZP_00442131 *Burkholderia mallei GB8 horse 4* YP_332966 *Burkholderia pseudomallei 1710b* ZP_01010225 *Burkholderia mallei SAVP1* YP_104
ZP_00988110 *Burkholderia dolosa AUO158* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
ZP_00690482 *Burkholderia ambifaria AMMD* EAO43342 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00427782 *Burkholderia vietnamiensis G4* EAM25650 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00098109 *Burkholderia cenocepacia PC184* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
ZP_00463929 *Burkholderia cenocepacia HI2424* ZP_00458537 *Burkholderia cenocepacia AU 1054* EAM08790 EAM16948 *Burkholderia cenocepacia HI2424* Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein /Retinal pigment ep
YP_367645 *Burkholderia sp. 383* ABB07001 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00807680 *Rhodopseudomonas palustris BisA53* EAO92137 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00847905 *Rhodopseudomonas palustris BisB18* ABD87098 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_946559 *Rhodopseudomonas palustris BisB5* EAO86720 putative retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein/Carotenoid oxygenase
→Smo_NCED890806654_1
ZP_00803748 *Rhodopseudomonas palustris HaA2* ABD05926 Carotenoid oxygenase/Carotenoid oxygenase
NP_772430 *Bradyrhizobium japonicum USDA 110* BAC51055 putative lignostilbene-alpha,beta-dioxygenase/blr5790
ZP_00863652 *Bradyrhizobium sp. BTAi1* EAP26367 putative lignostilbene-alpha,beta-dioxygenase/putative lignostilbene-alpha,beta-dioxygenase
ZP_00596655 *Ralstonia metallidurans CH34* EAN51487 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
XP_961764 *Neurospora crassa N150* XP_327294 *Neurospora crassa* EAA32528 hypothetical protein/hypothetical protein /hypothetical protein
BAE55369 *Aspergillus oryzae* unnamed protein product
EAQ91995 *Chaetomium globosum CBS 148.51* hypothetical protein CHGG_00230
XP_664666 *Aspergillus nidulans FGSC A4* EAA61191 hypothetical protein AN7062.2/hypothetical protein AN7062.2
XP_370033 *Magnaporthe grisea 70-15* hypothetical protein MG06548.4
XP_761231 *Ustilago maydis 521* EAK28275 hypothetical protein UM05084.1/hypothetical protein UM05084.1
1917171A *Sphingomonas paucimobilis* AAC60447 1917171A lignostilbene dioxygenase/lignostilbene-alpha, beta-dioxygenase
AAB35856 *Sphingomonas paucimobilis* lignostilbene-alpha,beta-dioxygenase isozyme III; LSD-III
YP_496081 *Novosphingobium aromaticivorans DSM 12444* ABD25247 Carotenoid oxygenase/Carotenoid oxygenase
YP_498079 *Novosphingobium aromaticivorans DSM 12444* ABD27245 Carotenoid oxygenase/Carotenoid oxygenase
BAB98735 *Sphingomonas paucimobilis* lignostilbene alpha,beta-dioxygenase
Smo_NCED719878898_1
NP_01000256 *Oceanicola batsensis HTCC2597* EAQ02187 possible dioxygenase/possible dioxygenase
NP_419593 *Caulobacter crescentus CB15* AAK22761 hypothetical protein CC0776/conserved hypothetical protein
ZP_00577961 *Sphingopyxis alaskensis RB2256* EAN47365 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_01039000 *Erythrobacter sp. NAP1* EAQ29471 hypothetical protein NAP1_01825/hypothetical protein NAP1_01825
YP_457395 *Erythrobacter litoralis HTCC2594* ABC62598 hypothetical protein ELI_02530/hypothetical protein ELI_02530
ZP_01190551 *Mycobacterium flavescens PYR-GCK* EAS12845 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_854594 *Mycobacterium bovis AF2122/97* CAB79798 POSSIBLE DIOXYGENASE /POSSIBLE DIOXYGENASE
NP_335371 *Mycobacterium tuberculosis CDC1551* NP_00772340 *Mycobacterium tuberculosis F11* NP_215428 *Mycobacterium tuberculosis H37Rv* ZP_00879633 *Mycobacterium tuberculosis* C CAB08511 *Mycobacterium tuberculosis H37Rv* AAK45185 *Mycobacterium tuber*
ZP_01101028 *gamma proteobacterium KT 71* EAQ99129 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
XP_383243 *Gibberella zeae PH-1* EAA71756 hypothetical protein FG03067.1/hypothetical protein FG03067.1
CAH70723 *Gibberella fujikuroi* putative carotenoid oxygenase
XP_757112 *Ustilago maydis 521* EAK81726 hypothetical protein UM00965.1/hypothetical protein UM00965.1
XP_482019 *Oryza sativa* (japonica cultivar-group) BAD03492 BAD03543 putative Lignostilbene-alpha,beta-dioxygenase and related enzymes/putative Lignostilbene-alpha,beta-dioxygenase and related enzymes /putative Lignostilbene-alpha,beta-dioxygenase and
XP_482035 *Oryza sativa* (japonica cultivar-group) BAD05365 putative Lignostilbene-alpha,beta-dioxygenase and related enzymes/putative Lignostilbene-alpha,beta-dioxygenase and related enzymes
BAD36206 *Oryza sativa* (japonica cultivar-group) crocetin dialdehyde-like
Smo_NCED_32_1
ZP_00106997 *Nostoc punctiforme PCC 73102* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
YP_324210 *Anabaena variabilis ATCC 29413* ABA23315 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_485149 *Nostoc sp. PCC 7120* BAB73063 hypothetical protein all1106/all1106
ZP_00513669 *Crocosphaera watsonii WH 8501* EAM52872 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
YP_322564 *Anabaena variabilis ATCC 29413* ABA21669 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00671676 *Trichodesmium erythraeum IMS101* EAO29838 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00106156 *Nostoc punctiforme PCC 73102* COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
175_Cre
AAK38744 *Phaseolus vulgaris* carotenoid 9,10-9',10' cleavage dioxygenase
AAX48772 *Vitis vinifera* 9,10
BAC10549 *Pisum sativum* nine-cis-epoxycarotenoid dioxygenase1
CAD71148 *Bixa orellana* carotenoid cleavage dioxygenase
CAC79592 *Crocus sativus* crocetin dialdehyde
AAK00622 *Persea americana* carotenoid cleavage dioxygenase 1
ABA99623 *Oryza sativa* (japonica cultivar-group) crocetin dialdehyde
AAV39613 *Zea mays* AAZ22348 AAZ22349 carotenoid cleavage dioxygenase/carotenoid cleavage dioxygenase 1 /9,10-9',10' carotenoid cleavage dioxygenase 1
AAT68189 *Petunia x hybrida* carotenoid cleavage dioxygenase 1
AAT68187 *Lycopersicon esculentum* carotenoid cleavage dioxygenase 1A
CAD33264 *Lycopersicon esculentum* carotenoid cleavage dioxygenase oxygenase
CAC79644 *Capsicum annuum* dioxygenase
AAT68188 *Lycopersicon esculentum* carotenoid cleavage dioxygenase 1B
AAY21819 *Suaeda salsa* carotenoid cleavage dioxygenase
AT3G63520 = NP_191911 CAA06712 CAB87805 AAN17413 AAN72113 CCD1 (CAROTENOID CLEAVAGE DIOXYGENASE 1)/carotenoid cleavage dioxygenase 1 /neoxanthin cleavage enzyme nc1 /neoxanthin cleavage enzyme nc1 /neoxanthin cleavage enzyme nc 1
ABB52081 *Daucus carota subsp. sativus* putative carotenoid cleavage dioxygenase
BAE72095 *Lactuca sativa* Lactuca sativa carotenoid cleavage dioxygenase 2
Smo_NCED_33_1
Smo_NCED_25_1
Smo_NCED_22_1
→Ppa_NCED_2_1
Ppa_NCED_4_1
→Ppa_NCED_6_1
Ppa_NCED_3_1
BAC10552 *Pisum sativum* nine-cis-epoxycarotenoid dioxygenase4
AT4G19170 = NP_193652 CAA16706 CAB78919 AAL10480 AAM97019 AAP68224 NCED4 (NINE-CIS-EPOXYCAROTENOID DIOXYGENASE 4)/neoxanthin cleavage enzyme-like protein /neoxanthin cleavage enzyme-like protein / At4g19170/T18B16_140 /neoxanthin cleavage enzyme-like
BAE72094 *Lactuca sativa* Lactuca sativa carotenoid cleavage dioxygenase 1
AAW21318 *Oryza sativa* (japonica cultivar-group) XP_509209 BAD09075 AAW21317 putative 9-cis-epoxycarotenoid dioxygenase/PREDICTED P0724B10.24 gene product /putative 9-cis-epoxycarotenoid dioxygenase /9-cis-epoxycarotenoid dioxygenase 1
XP_467354 *Oryza sativa* (japonica cultivar-group) ABA99976 9-cis-epoxycarotenoid dioxygenase 2/Retinal pigment epithelial membrane protein
BAC78595 *Oryza sativa* (japonica cultivar-group)
→NP_920055 *Oryza sativa* (japonica cultivar-group) AAM74248 putative neoxanthin cleavage-enzyme/Putative neoxanthin cleavage-enzyme
→ABB46885 *Oryza sativa*
→Smo_NCED_26_2 →Smo_NCED_1_1
Smo_NCED_8_1
Smo_NCED918512353_1
① Smo_NCED_28_1 Smo_NCED_12_1
②→Smo_NCED_4_2
Smo_NCED_15_1 ①→Smo_NCED_20_2 →Smo_NCED_10_1
Smo_NCED_11_1 ③→Smo_NCED_9_1
Smo_NCED_23_2 ③→Smo_NCED750822707_1
④→Smo_NCED750826611_1
Smo_NCED_3_1 ④→Smo_NCED719962089_1
Smo_NCED_13_1 ⑤→Smo_NCED_2_1 →Smo_NCED_14_1 →Smo_NCED_21_2 →Smo_NCED_29_1
Smo_NCED_30_1 →Smo_NCED724375882_1
Smo_NCED_6_1
→Ppa_NCED976468430_1
Ppa_NCED_5_1
Ppa_NCED_1_1
Smo_NCED_5_1 →Smo_NCED_17_1
BAD31592 *Oryza sativa* (japonica cultivar-group) AAW21320 putative viviparous-14 protein/9-cis-epoxycarotenoid dioxygenase 4
→XP_471168 *Oryza sativa* (japonica cultivar-group) CAE02392 OSJNBb0080H08.19/OSJNBb0080H08.19
CAD71149 *Bixa orellana* nine-cis-epoxycarotenoid dioxygenase
BAE72093 *Lactuca sativa* Lactuca sativa 9-cis-epoxycarotenoid dioxygenase 4
AT3G24220 = NP_189064 BAB01363 nced6/9-cis-epoxycarotenoid dioxygenase
AAK00623 *Persea americana* 9-cis-epoxycarotenoid dioxygenase
AAW21319 *Oryza sativa* (japonica cultivar-group) 9-cis-epoxycarotenoid dioxygenase 3
ABB71584 *Hordeum vulgare subsp. vulgare* 9-cis-epoxycarotenoid dioxygenase
AAW21321 *Oryza sativa* (japonica cultivar-group) ABA99870 9-cis-epoxycarotenoid dioxygenase 5/viviparous-14 protein
AAK00632 *Persea americana* 9-cis-epoxycarotenoid dioxygenase
AT1G78390 = NP_177960 AAF71797 nced9/F3F9.10
AAT75152 *Solanum tuberosum* 9-cis-epoxy-carotenoid dioxygenase 2
BAE72090 *Lactuca sativa* Lactuca sativa 9-cis-epoxycarotenoid dioxygenase 1
AAR11194 *Vitis vinifera* 9-cis-epoxycarotenoid dioxygenase 2
BAC10551 *Pisum sativum* nine-cis-epoxycarotenoid dioxygenase3
AAY82457 *Phaseolus vulgaris* 9-cis-epoxycarotenoid dioxygenase3
AT1G30100 = NP_174302 AAG50855 NCED5/9-cis-epoxycarotenoid dioxygenase, putative
AT4G18350 = NP_193569 CAA16715 CAB78837 NCED2/neoxanthin cleavage enzyme - like protein /neoxanthin cleavage enzyme-like protein
CAB76920 *Solanum tuberosum* 9-cis-epoxy-carotenoid dioxygenase 1
AAT75151 *Solanum tuberosum* putative 9-cis-epoxy-carotenoid dioxygenase
CAB10168 *Lycopersicon esculentum* CAD30202 nine-cis-epoxycarotenoid dioxygenase/9-cis-epoxycarotenoid dioxygenase
AAY82458 *Cuscuta reflexa* 9-cis-epoxycarotenoid dioxygenase1
AAY82459 *Cuscuta reflexa* putative 9-cis-epoxycarotenoid dioxygenase2
BAE72091 *Lactuca sativa* Lactuca sativa 9-cis-epoxycarotenoid dioxygenase 2
BAE72092 *Lactuca sativa* Lactuca sativa 9-cis-epoxycarotenoid dioxygenase 3
ABB52079 *Daucus carota subsp. sativus* putative 9-cis epoxycarotenoid dioxygenase
ABB52080 *Daucus carota subsp. sativus* putative 9-cis epoxycarotenoid dioxygenase
ABB52078 *Daucus carota subsp. sativus* putative 9-cis epoxycarotenoid dioxygenase
AAY98512 *Stylosanthes guianensis* 9-cis-epoxycarotenoid dioxygenase
CAE00459 *Arachis hypogaea* 9-cis-epoxycarotenoid dioxygenase
BAB11932 *Vigna unguiculata* neoxanthin cleavage enzyme
AAF26356 *Phaseolus vulgaris* 9-cis-epoxycarotenoid dioxygenase
BAC10550 *Pisum sativum* nine-cis-epoxycarotenoid dioxygenase2
AAR11193 *Vitis vinifera* 9-cis-epoxycarotenoid dioxygenase
AAR34546 *Brassica rapa subsp. pekinensis* 9-cis-epoxycarotenoid dioxygenase
AT3G14440 = NP_188062 BAB01336 AAL07104 BAB70609 NCED3 (NINE-CIS-EPOXYCAROTENOID DIOXYGENASE3)/9-cis-epoxycarotenoid dioxygenase /putative 9-cis-epoxycarotenoid dioxygenase /neoxanthin cleavage enzyme

0.100