

>gi|862574839|dbj|BAR94057.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEGTFGLPDELAKSLSRMSKSGRRPSFGSISGRGWASASVREVFSAAATGGDVFQTSAR
ENDDEEELKW
AAIERLPTYDRLRKGILKQTLDDGKVNYQEVDVANLRLQDRKQLLESILKFVEDDNERFLTRL
RDRTDRV
GIEIPKIEVRFEHLCIDGDAYVGSRALPTLWNASINFVEGFLEKIKIVPSKKRVVNILRDVNGIV
RPSRL
TLLLGPPGAGKTTLLKALAGVPDKDIRVNGRISYCGHELSEFIPQRTCAYISQHDLHHGELTV
RETL DFA
GRCLGVGTRYELLTELSRREKEAGVKPDPEIDAFMKATAVAGQESSLVTDYVLKILGMDICAD
ILCGDEM
RRGISGGQKKRLTTGEMLVGPAKVFFMDEISTGLDSSTTFQIAKYMRQMVHVMDVTMIISLL
QPAPEIYD
LFDDIILLSEGKIVYQGPRENVLFFESVGFKC PERKGVADFLQEVTSLKEQEQYWFRKNEP
YQYISVAE
FAECFSNFHVGRQLFDDLGV PFDKSKVHPAALVTEKYGISNMELLKACLSREWLYMKRNSF
LYIFKTFQI
TVMSIISFTVFFRTQMKVGQIADGGKFY GALFFSLINVMFNGTAELALT V FRLPVFFKQRDSL
FYPAWAF
ALPIWLLKIPLSFMESLIWIVLTYYTIGFAPAASRFFRQFLVFFALHQSALS LFRFIAALGRTL VV
SSTF
ATFTILIVFVLGGFIVAKDDLEPWMKWGYISPMTY GQNAIAINEFLDERWSTPNNDPRFSEP
TVGKVLL
KARSMYTEDHVFWLCVVVLF AFSFLFNFCFILALTYLNPFGDYRSVISED DKSKKYKRTGCS
SASSAPTT
EGIAMDV RNTNGSSIEEAKKRG MVLPFQPLSLAFNHINYYVDMPAEMKSQGVKETRLQLLR
DVSGAFRPG
VLTALVGVSGAGKTTLMDVLAGRKTGGCIEGSINISGYPKNQSTFARISGYCEQN DIHSPHIT
VYESLLY
SAWLRLSPDVKEYTRKNFVEEVMELVGLNPLRDSL VGLPGVDGLSTEQRKRLTI AVELVANP
SIIFMDEP
TSGLDARAAAIVMRTVRNTVDTGRTV VCTIHQPSIDIFEAFDELLLMKRGGQVIYAGPLGHHS
HLLIEYF
QSVPGVPGVKEGCNPATWMLDISAPAVEAQLQVDFADIYANSELYRRNQELIKELSIPAPGS
QDLHFPT E
YAQPFFKQCKACFWKQHLSYWRHPQYNTIRFAMTAMIGVIFGIIFWNKGDKVSKLQDLLNLV
GAMYAAVM
FLGGTNTSAVQSIVAERTV FYREKAAGMYSALPYAFAQVAIETIYIAIQT LIYSLILYAMIGFWH
TAGK
FFLFYFFVFMCFVYFTMYGMMLVALTPNYHIAAIVMSFFLSFWNLFSGFLIPRTQIPIWWRWY
YWASPVA
WTIYGLVTSQVGNKNNLVEIPGWGEVPLKLYLKENFGFEYDFLGVVAAMHV V WAVFFCFIFA
YAIKFLNF
QRR

>gi|862574834|dbj|BAR94056.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEPANLNILRGSNSLRGSFRANSSSIFSR SARDEDDEEALKWAALEKLPTFDRLRKGLLFGS
EGDSAAEV

DINDIGHQERKSLLERLVKVADEDNEKFLLKLNRIETVGDMPsieVRYENLTIEADAYVGSRALPTFI
NFITNFFETMLNSVHILPSKKRQITILKDVSGMIKPCRLTLLGPPSSGKTTFLLAGKLDPTLRVNGK
VTYNGHELHEFVPQRTAVYISQHDLHIGEMTVRETLEFSARCQGVGSRYEMLAELSRREKEANIKPDPDL
DIYMKAAATEGQEANVYTDYVLKILGLDVCADTMVGDEMLRGISGGQKKRVTTGEMLVGPAKALFMDEIS
TGLDSSTTFSIVNSLRQSVQLMKGTTVISLLQPAPETYNLFDIILLSDGYIVYQGPRESVLDF
FESMGF
RCPKRKGVADFLQEVTSKKDQQQYWAKRDEPYRFITSKDFADAYQSFHVGKKLSDDLETPYDKSKSHPA
LSTQKYGIGTKQLLKVCAEREFLLMKRNSFVYIFKLFQLVVMALITMTVFFRTKMPQDDMDDGGIYAGAL
FFVVVQIMFNGMAEINLTILKLPVYFKQRDLLFFPSWAYALPTWILKIPITIVEVAIWTFLTYAMGFDP
TVSRLFKQFFLLVLVHQMASALYRFIGAAGRTMGVASTFGAFALILQFALSGFILSRDRCVKKWWIWGYW
ISPLMYSMNSILVNEFDGKNWKHMAPNGNEPLGAAVVRARGFFPEAYWYWIGIGALIGFIMILNVFYSLG
LAYLNPFGKPQAMISEDENADNVRLIGPEGGDSVSEGQNKKRGMVLPFEPHSITFDDVVYSVDMPQEMK
GGSTEDRLVLLKGVSGSFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIDGSIKISGYPKKQETFARV
SGYCEQNDIHSPYVTVYESLAYSAWLRLSQDVNENKRKMFVEEVMELVELTSLRSALVGLPGVNGLPTEQ
RKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRAVRNTVDTGRTVVCTIHQPSIDIFEAFDELFLMK
RGGQEIVVGPLGRHSCHLIKYFESMPGVSKIKEAYNPATWMLEVTASSQEITSGVDFADLYK
KSDLYKRN
KALIAELSTPRPGTKDLQFDTQFSQPFWTQCMACLWKQYWSYWRNPSYTAVRFIFTLFIALVFGTMFWDL
GTKVRRSQDLFNAMGSMYAACLFLGVQNSSSVQPVVAVERTVFYRERAAGMYSaipYAIGQVIVELPYVF
VQAAFYGVIVYAMIGFEWTAAKFFWYFFFMYFTLLYFTFYGMMTVAITPNQNVASIVAAFFYAVWNLFSG
FIVPRPRIPIWWRWYYWACPVAWTLYGLVASQFADLQNDLGNNENVEQFLSRYFGFEHDFLGVVAAVIVA
LPVMFAVIFALAIKALNFQIR

>gi|862574830|dbj|BAR94055.1| PDR-type ACB transporter [Nicotiana benthamiana]
MAASNGSEYFELDVEAQESFGRRSNAESVAEDEQELMWAALEKLPTRKRTNLALVKRTAEESDDSAGERT
DTVDVRKLDRNTRQLVVDDRAMATSEQDNYRLLSGVKERLDSVGLEVPKVEVRYEDITITANVNVGSRALP
TLMNSVRDVIENTRLRIFRPKKHSLTILNNINGVVKPGRMTLLGPPGSGKTTLLALSGKLDNGLKK

RGIIYNGHKLDEFCVQRTSAYIGQTDNHIAELTVRETLDYAARFQGASQGFVDYMKDIDRLE
KERNIRP
NSEIDAYMKASSVGGKKHSVSTDYVLKVLGLDVCSDTIVGNDMMRGVSGGQKRKRVTTGEM
IVGPRKTLLM
DEISTGLDSSTTYQIVKICIRNFVHLMEGTVLMALLQPAPETFELFDDLVLVLLSEGYVVYHGRRRA
DVVEFFE
SLGFRLPPRKGVADFLQEVTSRKDQAQYWADNSRPYEYISVPAIAEAFRNSRYGQDLKSSL
SIPYDRSKG
HPSALSKTKFAVPRWELFKACFSREWLLMTRHSFLYIFKTCQVAFVGFVTCTMFLKTRLHPT
DLVNGNLY
LSCLFFALIHMMFNGFSELPLLIHLPVFYKQRDNLFYPAWAWSFCSWILRIPYSVIEAVVWS
CVVYLAV
GFAPGAGRFFCYLFALIVVHQMGMLFRTVASIARDLVISNTIASAALLVTFLGGFILPKGMIK
PWWVW
AFWVSPLSYGQRAISVNEFTATRWMKTTTTGNITLGNVQLQSHSLPTSHNWWYWLGVGALLL
YVLFFNIVL
TLALTFLNPIRKSQAIVPPEAVGLKSAIDGKSKISESDGDPVQETTKKKGMILPFQPLTMTFHN
VKYFVD
MPKEMSSEGIPERKLQLLSNVSGVFSPGVLTALVGSSGAGKTTLMDCLAGRKTAGYIEGDIR
ISGYLKQQ
QTFARISGYVEQNDIHSPQVTVYESLLFSSYLRLPKEVNKQQREEFVKDVMIDLVELDSLKNA
LVGLPGSS
GLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVCTIHQPSIDI
FEAFD
ELLLMKRGGQVIYGGKLGEKSQTMIDYFQSIPGITPIPSGYNPATWMLEISTPAAEERIGEDF
AVIYRNS
EQFRGVEASIKHLSVPPENSEPLKFTTMYSQGALSQFRICLWKQNLVYWRSPSYNAVRLFF
TTLSALIVG
SVFWDVGSRRDSTQNLFFVMGALYSSCLFLGVNNASSVQPVVAIERTVFYREKAAGMYSP
LPYAVAQGLV
EIPYILIQTLLYGVITYFMINFERTPAKFFLYLLFMFLTFSYFTFYGMMAVGLTPTQHLLAAVISSA
FYSL
WNLMSGFLVPAPSIPGWWIWFYISPVAWTLRGISSQLGDVEERITGPGFEGTVKEYLEVS
LGFEPGWI
AWSAVILVAFSLLFFSVFAISVKVLNFQKR

>gi|862574826|dbj|BAR94054.1| PDR-type ACB transporter [Nicotiana benthamiana]
MSTTMWNSSSERIFSSTTENGANKDEEALVLAALQRSPTYIRARTSIFRDISGEVSLVDVGK
MKDQQQKQ
VLDKLINAINEDTEFFKRVSQRFEAVNLEFPKVKVCFQHLKVDKVVHVGDRALPTVPNFIFN
MTETFLR
QLRIFPSRRKKLSILNSISGFIRPSRLTLLLGPPSSGKTTLLALAGRVDKDLKMSGKVTYNGH
DLKEFV
PQRTAAYISQRDSHIAEMTVRETLEFSGRCQGVGFKRDLLMELLRREKNAGIIPDQDLDFIK
AVALGEQ
TSVVVDYILQILGLDICADTLVGDEMLKGISGGQKKRLTTGELLMGASRVLLMDEISTGLDSS
TTYQIVK

YLKHTTTRAFDGTTLVSLQPDPEYCLFDDIILLSEGHIVYQGPRESALGFFFEFMGFKCPSRK
NVADFLQ
EVTSEKDQGGQYWFHNSQYNYVPATKFERFQSFHVGNALTQELAIPFDKRDDHPAALSSSI
YGVKKSELL
KISFSWQMLLLKRNSVVLVFKITQLFLIVLIMMSVFFRSTMHHDTLEDGAVYLGALYFAILMVL
FNGFLE
VPMLIAKLPVLYKQRDLHFYPCWIYTLPSWILSIPTSILESIIWVAATYYVVGFDQPITRCLRQF
LLYLS
LHQMSIGLFRMAALGRNMIVANTFGSFAMLVVMALGGFVLSRDSIPSWWIWGYWFSPLMY
AQNAASVNE
FRGHSWDKRFGDMPLGQMLLKVRSLFPEDYWYWIGVGALIGYTILFNILFTIFLTYNPLGSQ
QAVVSKR
KIQNKDKEQESEYNIPLGEFLNHHSFTGREQKKRRGMVLPFRPLSMCFRDINYVDVPME
LKQQGLAG
DKLQLLVNVTGAFRPGVLTALVGVSGAGKTTLMDVLAGRKTGGHIVGNIYISGHPKKQETFA
RVSGYCEQ
NDVHSPCLTIHESLLFSAWLRLSSQVDLKTQKAFVEEVEELVELTTLRRALVGLPGVDGLSTE
QRKRLTI
AVELVANPSIVFMDEPTSGLDARSAIVMRTVRNIVDTGRTIVCTIHQPSIDIFESFDELLLMKR
GGELI
YAGSLGSRCKLVQYFEAIHGVQQIKSGQNPAAWVLEVTSPAEEENRLGVDFADVYRRSTLY
RQNEEMAES
LSKPEEDSVELNFPKYSQSFFGQFLACLWKQNL SYWRNPQYTAVRFFYTIISLMFGSICW
KFGSKRST
QQDILNAMGSMYAAVLFIGITNASSVQPVVYVERFVSYRERAAGMYS AIPFAFAQVTIEFPYV
FIQTLVY
STIFYFMASFEWNVWKVWYIYFMYFTLLYFTFFGMMTTSVSPNHNIAAILAAPFYMMWNLF
SGFMISRM
RIPIWWRWYYWANPVAWSLYGLLTSQYGEVNEHLRLADGVHTVPIKRFITEQFGYRHDFLGI
AGVAVVGF
CTLFAVTFAFAIKCFNFQRR

>gi|862574822|dbj|BAR94053.1| PDR-type ACB transporter [Nicotiana benthamiana]
MAASIRENELVRSMKKSFSFESASRKGSWASASIRDAFGAPGVDVFAKSGRQDDEDELKW
AAIERLPTYD
RMRKGILKQVLDNGKVVHEQVDVAHMGMQEKKQLMESILNGIDEDNERFLLRLKDRIERVGI
DIPRIEIR
FEHLSIEGDAYVGSRALPTLWNSTINSLEGILGLLRLSPSKKSVKILDDISGIVKPSRMTLLG
PPASG
KTTLLKVLAGKLEQDLRVKGKITHCGHELKEFIPQRTCAYICQHDLHHGEMTVRETLD FSGR
CLGVGARY
ELLAELSRREKDLGIKPDPEIDAFMK AISVAGQKTNLVTD SILKILGLDICSDTMVGDEMRRGI
SGGQKK
RVTTGEMLVGPAKVFLMDEISTGLDSSTTFQIVKHMRQMVHIMNVTMIISLLQPAPETFNLF
DIILLSE
GKIVYQGPREHVLEFFESVGFKC PERKGVADFLQEVT SKKDQEQYWSKKNIPYQYVSVHDF
VEQFKSFHI

GLKLFSEVHVPYDRSKTHPAALVKEYGISNKELFKACLSREWLLMKRNSFVYIFKTVQITIM
AIFTFTV
FFRTKMKGHEAEDGGKFYGALFFSLLNVMFNMGMAELAMTIFRLPVFFKQRDALVYPAWAFA
LPIWLLRIP
VSLMESAIWILLTYTVGFAPAADRFFRQYLAYVGIHQMALGLFRFIAALGRTQVVANTLGT
TLLSVFV
LGGFIIAKDDLQPWMKWAYYLSPMSYGQNAIVLVEFLDKRWKPNEDPSFPGKTVGIELLKA
RGMFTEDI
WYWICVIALFAFSLFFNLCFVAALTYLKPLGDTKSVMVNEEHSQYKEKKMKVIPDEGKNTSE
DVKSNGAD
SATNKKGMVLPFQPLSLSFEHVNYYVDMPAEMKSQGIEETRLQLLRDVSGAFRPGVLTALM
GVSGAGKTT
LMDVLAGRKTGGYIEGNICVSGYPKIQETFARVSGYCEQNDIHSPHVTVYESLLYSAWLRLP
SDVNNETR
MMFVEEVMELVELTLLRDSLVLPGVDGLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARA
AAIVMRA
VRNTVDTGRTVVCTIHQPSIDIFESFDELFLMKRGGQVIYAGPLGRNSQYLTEYFESVPGVN
KIKDGYNP
ATWMLEVSAASVESQLGVDFAEILTNSDLYRRNEELIKQLSTSAPGSKDLYFPTKYSQPLLTQ
FKACFWK
QHWSYWRNPQYNVIRFFMTTVIGIIFGVIFWGKGGKFEKQQDLSNLMGAMYAAVLFLGGTN
TSAVQSVVA
IERTVFYRERAAGMFSAALPYAFAQVTVETIYVGIQTFLYSLILYSMIGFEWQAGKFFWFY
FMCVYF
TLYGMMLVALTPNYQIAAIVMSFFLSFWNLFSGLIPRMQIPIWWRWYYWGSPVAWTIYGLIT
SQLGDKT
EPVHIPSHDNAPIYLPKDYLLKEYLGYDFDFLGAVAAHLGWVLLFFTTFVYAIRVLNFKQR

>gi|862574818|dbj|BAR94052.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEESFLGDELTKLRNSRMSSWRSSQSIREVFGGPRDVMKNYSTRWREMAEEEEKELK
WAAIDRLPTYN
RLRKGMMEVMSNGRVVHHEVDMTKLGNQDKKVLMEVILKVVEDDNEQFLRRLRNRTDR
VGIEIPKIEVR
FQNLSVEGDAYVGTRALPTLLNSTLNTIEAVLGLVHLSASKKRVVKILEDVSGIIRPSRMTLLL
GPPGSG
KTTFLKALAGKSEKDLRVTGKITYCGHEFHEFVPQRTSAYISQHDLHHGEMTVRETLDFAGR
CLGVGTRY
DLLVELSRREKEAGIMPDPQIDAFMKATAIDGQETSLITDYVLKILGLDICADIMVGDDMRRGI
SGGQKK
RVTTGEMLVGPAKAFFMDEISKGLDSSTTYQIVKFMQMVHINDITMVISLLQPAPETFDLFD
DIILMSD
GQIVYQGPRENVLEFFEYMGFRCPERKGIADFLVEVTSKKDQEPYWFRKSRPYVYISVPEF
SESFNSFQI
GEQIIIEELTIPYDKYSVHRAALVKNKYGISNQELFKACFSREWLLMKRSSFLYIFKTTQITIMATI
ALTV
FLRTQMKAGTVRGSAGFWGALFFSLINVMFNMGQELAMTVFRLPVFFKQRDSLFPYPAWAF
ALPIWVLKIP

ISLMESAIWVILTYTIGFAPAASRFFKQLLAFVGVHQMALSIFRFAAAGRTQVVANTLGTFT
LLMFV
LGGFIVSKDDIQDWMIWGYLSPMMYGQNAIAINEFLDDRWSAPTNGSQPTVGKTLLHARG
LFTTETWYW
ISIGALFGFSLLFNVLFIAALTFLNPIGDTKAIRVENGDKNNSRPQETAIVGDIQMAPTWSQAN
TSSVIP
FPNNESTRKGMILPFQPLSLAFNHVNYVDMPEMKTQGVVEDRLQLLRDASGAFRPGILTA
LVGVSGAGK
TTLMDVLAGRKTGGYIEGSINISGYPKNQTTFARVSGYCEQNDIHSPYVTVYESLLYSAWLR
LASDVKTE
TRKMFVEEVMELVELKPLRNSLVGLPGLDGLSTEQRKRLTTAVELVANPSIIFMDEPTSGLDA
RAAAIVM
RTVRKTVDTGRTIVCTIHQPSIDIFEAFDELLLMKRGGQVIYAGPLGRHSCKLVEYFETIPGVP
KIRESD
NPATWMLDVSSSSMEAQLVVDFAEVYANSNLYQRNQLLVKELSAPATCSKDLYFPTRYSQS
FITQCKACF
WKQHWYSYWRNSQYN AIRFFMTVIIGILFGVIFWNKGKQIYRQQDLLNLLGATYAAMFLGAT
NASAVQSV
VAIERTV FYRERAAGMYSELPYAFAQVAIETIYVAIQTFIYSLLLFSMIGYQWTAEKFFYFYFIF
MCFT
YFSMYGMMVVALTPGYQIAAIVMSFFLSFWNLFSGLVPRPLIPVWWRWYYWASPAWTIY
GIFASQVGD
RTDELELTGEIEKIQVKNFLKEYLGYDHDFLVVVVFAHVGWVLLFFFVFAYGIKFLNHQKR

>gi|862574814|dbj|BAR94051.1| PDR-type ACB transporter [Nicotiana benthamiana]
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EKLPTYDRLRK
TVLKSVMESENNQGNKKVVHKEVDVRNLGMNERQEFIDRIFRVAEEDNEKFLRKFRNRIDK
VGITLAMVE
VRYEHLTIEADCYIGDRALPTLPNAARNIAESALSCVGINLAEKTKLTILKDASGIIKPSRMTLLL
GPPS
SGKTTLLLALAGKLDPTLKVRGEITYNGHGLKEFVPQKTSAYISQNDVHVAEMTVKETLDFS
ARCQGVGS
RYELLTELARRERDAGIFPEAEIDLFMKATAMEGVESLITDYTLRILGLDVCRDTIVGDEMIR
GISGGQ
KKRVTTGEMIVGPTKTLFMDEISTGLDSSTTFQIVKCLQQIVHLTEATVLM SLLQPAPETFDLF
DDIILL
SEGQIVYQGPREHVLEFFETCGFKC PERKGTADFLQEVT SRKDQEQYWANRHRPYQYISV
TEFAKRFRF
HVGLRIENELSVPYDKTRSHPAALIFKKYTVPTLELLKTNFDKEWLLIKRNSFVYVFKTVQIIIV
ALIGS
TVFLRTKMHTNTVDDGAIYVGALLFGMVINMFNGFSELSMIIQRLPVFYKHRDLLFHPPWAF
TLPTVLLK
VPISVFETIVWMVMTYYTIGYAPEASRFFKQSLTFLIQQMAAGLFRLTAGVCRTMIIANTGGA
LMLLLV
FLLGGFILPRGSIPDWWRWGYWVSPLSYGFNAFTVNEMFAPRWMNKFGPDGTTRLGLQV
MKNFDVFTERR

WFWIGAAALLGFTILFNVLF TLVLMYLSPLNKPQATLSKEQASDMEADQEESTGSPRLKISQ
SKRDDLP
SLSAADGNKTREMEIRRMSSRTSSSGLYRNEDANLEAANGVAAKKG MILPFTPLSMSFEDV
SYFVDMPE
MKDQGVTEDKLQLLRGVTGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIEGDVRIS
GFPKNQETFA
RVSGYCEQTDIHSPQVTIHESLIFSAFLRLPKEVSKEEKMIFVDEVM DLVELDNLKDAIVGLP
GVTGLST
EQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVCTIHQPSIDIFEAF
DELLL
MKRGGQVIYAGPLGRHSQKIIEYFEAIPGVQKIKEKYNPATWMLEASSIGTEARLGMDFAEY
YRSSALYQ
RNKALVKELSAPPPGAKDLYFTTQFSQSTWGQFKSCLWKQWWTYWRSPDYNLVRFFFSLA
AALLIGTIFW
NVGSKRKSSGDLMTVIGAMYAAVLFGVINNCSTVQPIVAVERTVFYRERAAGMYSALPYAMA
QVFAEIPY
ILVQTTYTYTLIIYAMVGFEWTAAKFFWFYFVTFFSFLYWTYYGMMTVSITPNHQVAAIFAAAFY
ALFNLF
SGFFIPRPRIPKWWIWYYWICPVAWTVYGSIVSQYGDVEATIQVPGVFPNPRIKDYIKDHFGY
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VAVVLVGFAAFFAFMYAYA IKT LNFQTR

>gi|862574810|dbj|BAR94050.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEANGGPRRLGSSRSSMSRTTSRSRSRANWNVEDVFNPMPSSRRSSRAEED EEA LTWAAL
EKLPTYDRLRK
TVLKSVMESENNQGNKKIVHKEVDVRNLGMNERQE FIDRFFRVAEEDNEKFLRKFRNRIDK
VGITLPTVE
VRYEHLTIEADCYIGDRALPTLPNAARNIAESALSCLGINLAEKTKLTILKDASGIIKPSRMTLLL
GPPS
SGKTTLLLALAGKLDPTLKVRGEITYNGHGLKEFVPQKTSAYISQNDVHVAEMTVKETLDFS
ARCQGVGS
RYELLTELARRERDAGIFPEAEIDLFMKATAMEGVESLITDYTLRILGLDVCRDTIVGDEMIR
GISGGQ
KKRVTTGEMIVGPTKTLFMDEISTGLDSSTTFQIVKCLQQIVHLTEATVLM SLLQPAPETFDLF
DDIILL
SEGQIVYQGPREHVLEFFETCGFKC PERKGTADFLQEVT SRKDQE QYWANRHRPYHYISV
TEFAKRFRF
HVGLRIENELSPYDKTRSHPAALIFKKYTVPTLELLKTNFDKEWLLIKRNSFVYVFKTVQIIIV
ALIGS
TVFLRTKMHTNTVDDGAIYVGALLFGMVINMFNGFSELSMIIQRLPVFYKHRDLLFHPPWAF
TLPTVLLK
VPISVFETIVWMVMTYYTIGYAPEASRFFKQSLLTFLIQQMAAGLFRLTAGVCRTMIIANTGGA
LMLLV
FLLGGFILPRGSIPDWWRWGYWVSPLSYGFNAFTVNEMFAPRWMNKFAPDR TTRLGLQV
MKNFDVFTERR
WFWIGAAALLGFTILFNVLF TLVLMYLSPLNKPQATLSKEQASDMEADQEESMGSPRLRISQ
SKRDDLP

SLSAADGNKTREMEIRRMSSRTSSSSGLYRNEDANLEAANGVAAKKGMLPFTPLAMSFEDV
SYFVDMPPE
MKDQGVTEDEKLQLLREVTGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIEGDVRISG
FPKTQETFA
RVSGYCEQTDIHSPQVTIHESLIFSAFLRLPKEVSKEEKMIFVDEVMDLVELDNLKDAIVGLP
GVTGLST
EQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVCTIHQPSIDIFEAF
DELLL
MKRGGQVIYAGPLGRHSQKIIEYFESILGVQKIKEKYNPATWMLEASSIGTEARLGMDFAEYY
RSSALYQ
RNKALVKELSAPPPGTDLYFTTQFSQPTWGQFKSCLWKQWWTYWRSPDYNLVRFFFSLA
AALLIGTIFW
NVGSKRKSSGDLMTVIGAMYAAVLVGINNCSTVQPIVAVERTVFYRERAAGMYSALPYAMA
QVFAEIPY
ILVQTTYTYTLIVYAMVGFEWTAAKFFWYYFVTFFSFLYWTYYGMMTVSITPNHQVAAIFAAAF
YALFNLF
SGFFIPRPRIPKWWIWYYWICPVAWTVYGSIVSQYGDVEDTIRVPGVFPNPRIKDYIKDHFG
YDPDFMAP
VAVVLVGFAAFFAFMYAYAIKTLNFQTR

>gi|862574806|dbj|BAR94049.1| PDR-type ACB transporter [Nicotiana benthamiana]
MWGSAENLSVRSASFREDGDDEEALRWALERLPTYNRVRRGIFRNIVGESWEVDVDKLQ
NDERKVVLDR
LVKSVDDDWEKFFNRMRLRFQRVDLDFPKIEVRFQHLIVEAYVHLGSRALPTISNFIFNMTEA
FLRQLKI
YSGKRTKLTLDDISGIIRPSRLTLLGPPSSGKTLLLALAGRLKSDLQTSIGNITYNGHGLKEF
VPQKT
SAYVSQQDWHIAEMNVRETMDFSACCQGVGSKYDMLLELSRREKMAGIKPDEDLDLFMKA
LALEGNETAL
VVEYILKILGLDNCANTLVGDEMLKGISGGQKKRLTTGELLVGPSRVLFMDEISTGLDSSTTY
QIIKYLR
YSTHALDGTTVISLLQPAPETYELFDDIILMSEGQIVYQGPRDDALDFFHFHMGFHCPCERKNVA
DFFQEVV
SKKDQEQYWAVSHRPYRYIPVTKFAEAFRSYRTGKNLSEELNIPFDRRYNHPAALSTSKYGA
KRMELLKT
SFDWQLLLMKRNSFIYIFKFIQLLLVALITMSVFFRTTLHHNTIDDGGLYLGEYFSMVILFNGF
TEVS
MLIVKLPVLYKHRDLHFYPCWVYTLPSWVLSIPTSLIESGFWVAVTYYGVGFDPSVARFLRQ
FLLFFFLH
QMSLALFRLIGALGRNMIIANTFGSFAMLIVMALGGYIISRDRIPSWWIWGFWISPLMYAQDA
ASVNEFL
GHVWDKRASKNSDLRLGEAVLKSRSFLPQSYWYWIGVGALLGYTILFNMLFTFFLAYLDPLV
KHQAVVSK
EELQDRGMTKKEEPAVIQLREYLKHSGSLTRQSFKNRGLVLPFQPLSMTFKDINYYVDMPM
ELKQQGMAE
DRLQLLVNITGAFRPGVLTALVGVSGAGKTTLMDVLAGRKTGGIIEGNIHISGYPKKQETFARI
SGYCEQ

NDIHSPCLTVVESLLFSAWLRLPSEVDIETQKAFVEEVMELVELSSLRGALVGLPGVDGLSTE
QRKRLTI
AIELVANPSVVMDEPTSGLDARAAAIVMRTVRNIVNTGRTIVCTIHQPSIDIFESFDELLFMK
RGGELI
YAGPLGPKSCKLIEYFEGIEGVPKIRAGYNPATWMLEVTSSVEENRLGVDFAEIYRRSNLFHY
NQVLVER
LSRPAGDSKDLNFPKAYCQSYFTQFLACLWKQNL SYWRNPQYTAVRFFYTIIISLMLGTICW
RFGSKRHS
QQDLFNAMGSMYAAVLFIGITNGTAVQPVVSVERSVSYRERAAGMYSALPFAFAQVAIEFPY
VFAQAVIY
CSIFYSMAAFEWTAPKFLWYILFMYFTMLYFTFYGMMTTAVTPNHNVAAIIAAPFYMLWNLF
S
GFMIPHK
RIPIWWRWYYWANPVAWTLYGLVASQYADDDRLVKLS DGTQSVPIKLLVKT VFGYRHDFIGI
AGFLVVSF
SVLFAVIFAYA IKS FNFQKR

>gi|862574801|dbj|BAR94048.1| PDR-type ACB transporter [Nicotiana benthamiana]
MWGSAENLSVRSASFREDGDDEEALRWAAERLPTYNRVRRGIFRNIVGESWEVDVDKLQ
NDERKVVLDLDR
LVKSVDDDWEKFFNRMRLRFERVDLDFPKVEVRFQHLTVEAYVHLGSRALPTISNFIFNMTE
AFLRQLKI
YSSKTKLTILDDISGIIRPSRLTLLLGPPSSGKTTLLALAGRLKSDLQTSGNITYNGHGLKEFI
PQKT
SAYVSQQDWHIAEMTVRETMDFSACCQGVGSKYDMLLELSRREKMAGIKPDEDLDFMKA
LALEGNETAL
VVEYILKILGLDNCANTLVGDEMLKGISGGQKKRLTTGELLVGPSRVLFMDEISTGLDSSTTY
QIIKYLR
YSTHALDGTTVISLLQPAPETYELFDDIILLSEGQIVYQGPRDDALDFFDFMGFCCPERKNVA
DFFQEVV
SRKDQQQYWTVSHRPYRYIPVTKFAEAFRSYRTGKNLSEELNIPFDRRYNHPAALSTSKYG
AKRTELLKT
SFDWQLLL MKRNSFIYIFKFIQLLLVALITMSVFFRTTLHHNTIDDGGLYL GELYFSMVILFNGF
TEVS
MLIVKLPVLYKHRDLHFYPCWVYTLPSWVLSIPTSLIESGFWVAVTYVVGFDPNVTRFLRQ
FLLFFFLH
QMSLALFRLMGALGRNMIIANTFGSFAMLIVMALGGYIISRDRIPSWWIWGFWISPLMYAQD
AASVNEFL
GHVWNKRASKNSDLRLGEALLKSRS LFPQSYWYWIGVGALLVYTILFNMLFTFFFLAYLDPLV
KHQAVVSK
EELQDRGTTKKEKPAVIQLREYLKHSGSLTRQSFKNRGLVLPFQPLSMTFKDINYYVDMPL
LKQQGMTE
DRLQLLVNITGAFRPGVLTALVGVSGAGKTTLMDVLAGRKTTGGIIEGNIHISGYPKKQETFARI
SGYCEQ
NDIHSPCLTVVESLLFSAWLRLPSEVDIETQKAFVEEVMELVELSSLRGALVGLPGVDGLSTE
QRKRLTI
AIELVANPSVVMDEPTSGLDARAAAIVMRTVRNIVNTGRTIVCTIHQPSIDIFESFDELLFMK
RGGELI

YAGPLGPKSCKLIEYFEGIEGVPKIRAGYNPATWMLEVTSSVEESRLGVDFAEIYRRSNLFAQY
NQVLVER
LCRPTGDSKDLNFPKYCQSYFTQFLACLWKQNLQSYWRNPQYTAVRFFYTLIISLMLGTICW
RFGSKRDS
QQDLFNAMGSMYAAVLFIGITNGTAVQPVVSVERSVSYRERAAGLYSALPFAFAQVAIEFPYV
FAQTVIY
SSIFYSMAAFEWTASKFLWYILFMYFTMLYFTFYGMMTTAITPNHNVAIIAAPFYMLWNLFS
GFMIPHK
RIPIWWRWYYWANPVAWTLYGLVASQYADDDRLVQLSDGTQSVPIKLLVKTVFGYRHDFIGI
AGFLVVSF
SVLFAVIFAYAIXSFNFQKR

>gi|862574797|dbj|BAR94047.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEGGEDIFRVSSARLNSSNVWRNSAMDVFSRSSREEDDEEALKWAALERLPTYLRIRRGIL
TEEEGQSRE
VDITKDLVERRNLLERLVNIADEDNDKFLLKLKKRIDRVGLDLPTIEVRFEHVSVDAEARVGS
RALPTI
FNFTVNILEDFLNYLHILPSRKKPLPILHEVSGIIPGRMTLLLGPSSGKTTLLLALAGKLDKN
LKVSG
RVTYNGHGMDEFVPQRSSAYISQNDLHIGEMTVRETLAFSARCQGVGAKYEILAEISRREK
EANIKPDPD
VDIFMKSAWNNEGQEANVTDYTLKILGLEICADTLVGDEMIRGISGGQRKRLTTGEMMVGPA
RALFMDEI
STGLDSSTTYQIVNSIRQSIHILQGTAVISLLQPAPETYDLFDDIILLSDGQIVYQGPRENVLEFF
EYMG
FMCPERKGVADFLQEVTSRKDQEQYWARRDEPYKFITVREFSESFQSFHIGRKLGDDELAVP
FDKSKSHPA
ALTTKKYGISKKELLKACTAREYLLMKRNSFVYIFKMIQLTLMASITMTLFLRTEMHRNTTIDG
AVFLGA
LFYAVIMIMFNGFSELALSIMKLPSFYKQRDLLFFPAWAYALPTWILKIPVTLVEVAIWVCMTYY
VIGFE
ADVGRFFKQLFLICVNQMASGLFRFIGALGRNVIVANTFGSCALLTVLMGGFILSRDDVKK
WWIWGYW
ISPMMYAQNAIAVNEFLGKSWAHVPPNSTGTETLGVSFLKSRGIFPEARWYWIGAGALLGY
VLLFNFLFM
VALAYLNPFGKSQAVLSEETVAERNASKRGEVIELSPIEKLSSERGNDVRPSASSRSMSTRV
GSITEADL
NKRRGMILPFEPLSITFDDIRYAVDMPQEMKAQGAEDRLELLKGVSGAFRPGVLTALMGVS
GAGKTTLN
DVLGRKTGGYIDGTISISGYPKQQETFARIAGYCEQTDIHSPHVTVYESLQFSAWLRLPRE
VDTETRM
FVEEVMELIELTPLREALVGLPGVNGLSTEQRKRLTVAVELVANPSIIFMDEPTSGLDARAAAI
VMRTVR
NTVDTGRTVVCTIHQPSIDIFDAFDELLLLKRGGEIYVGPLGRHSSHLLIKYFEGIDGVPIKD
GYNPAT
WMLEITSVAQEAARGIDFIELYKNSELYRRNKALIKELSVAPCSKDLYFPTKYSQSFFTQCM
ACFWKQH

WSYWRNPPYTAVRLMFTFFIALMFGTIFWDLGSKRKRQQDLLNAIGSMYVAVFLGLVQNAT
SVQPVIAIE
RTVFYRERAAGMYSALPYAFGQVMIELPYLFFQTIIYGVIVYVMIGFEWTVAKFFWYLFFMYF
TLLYFTL
YGMMTVAVTPNHSIAAISSAFYAIWNLF CGFVVPKTRMPVWWRWYYYICPISWTLYGLIASQ
FGDLQDK
LDTNETVEQFIESFFDFNYDFVGYVAVILVGISVVFLFIFAFSIKAFNFQKR

>gi|862574793|dbj|BAR94046.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEGGEDIFRVSSARLSSSNVWRNSAMDVFSRSSREADDEEALKWAALEKLPTYLRIRRGIL
TEEEGQSRE
VDITKLDLVERRNLLDRLVKIADEDNEKFLLKLKKRIDRVGLDLPTIEVRFEHVSVD AEARVGS
RALPTI
FNFTVNILEDFLNYLHILPSRKKPLPILHEVSGIIKPGRMTLLLGPSSGKTTLLLALAGKLDKD
LKVSG
RVTYNGHGMDAFVPQRSSAYISQNDLHIGEMTVRETLAFSARCQGVGAKYEILAE LSRREK
EANI KPDPD
VDIFMKS AWNEGQEANVVDYTLKILGLEICADTLVGDEMIRGISGGQRKRLTTGEMMVGPA
RALFMDEI
STGLDSSTTYQIVNSIRQSIHILQGTAISLLQPAPETYDLFDDIILLSDGKIVYQGPRENVLEFF
EYMG
FKC PERKGIADFLQEVT SRKDQEQY WARRDEPYKFITVHEFSESFSFHIGRKL GDELAVPF
DKSKSHPA
ALTTKKYGVSKKELLKACTAREYLLMKRNSFVYIFKMIQLTLMASITMTLFLRTEMHRNTTTD
GAVFLGA
LFYAVIMIMFNGFSELALSIMKLPSFYKQRDLLFFPAWAYALPTWILKIPVTLVEVAIWVCMTYY
VIGFE
ADVGRFFKQLFL LICVNQMASGLFRFIGALGRNVIVANTFGSCALLTVLVMGGFILSRDDVKK
WWIWGYW
ISPMMYAQNAIAVNEFLGKSWAHVPPNSTGMETLGVSFLKSRGIFPEARWYWIGAGALLGY
VLLFNFLT
VALAYLNPF GKSQAVLSEETVAERNASKRGEVIELSPIEKRSSERGNDVRRSASSRSMSSRV
GSITEADL
NKRRGMILPFEPLSITFDDIRYAVDMPQEMKAQGV AEDRLELLKGVSGAFRPGVLTALMGVS
GAGKTTLM
DVLAGRKTGGYIDGTINISGYPKQQETFARIAGYCEQTDIHSPHVTVYESLQFSAWLRLPHE
VDTETRM
FVEEVMELVELTPLREALVGLPGVNGLSTEQRKRLTVAVELVANPSIIFMDEPTSGLDARAAAI
VMRTVR
NTVDTGRTVVCTIHQPSIDIFDAFDELLLLKRGGEIYVGPLGRHSSH LIKYFEGNDGVPKIKD
GYNPAT
WMLEITSAAQESARGIDFTELYKNSELYRRNKALIKELSV PAPCSKDLYFPTKYSQSFFTQCM
ACFWKQH
WSYWRNPPYTAVRLMFTFFIALMFGTIFWDLGSRRKRQQDLLNAIGSMYAAVFLGLVQNAT
SVQPVIAIE
RTVFYRERAAGMYSALPYAFGQVMIELPYLFIQTIIYGVIVYVMIGFEWTVAKFFWYLFFMYF
TLLYFTL

YGMMTVAVTPNHSIAAIISSAFYAIWNLF CGFVVPKTRMPVWWRWYYYINPVSWTLYGLIAS
QFGDLQDK
LDTNETLEQFIENFFDFKYDFVGYVAVILVGISVVFLFIFAFSIAKAFNFQKR

>gi|862574790|dbj|BAR94045.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEPTNVSDLRGNSLRGSLKISVNSNNIWRNNGVEIFSRSSRHEDDEEALKWAALEKLPTFD
RLRKGLLFG
SQGAAAEVDIHHLGFQERNLLERLVKVADEDNEKFLTCLRQRIDRVGMDLPSIEVRYEHLNI
EADAYIG
SRALPTFTNFMTNLFLEAMLNSLHILSNQKRKLTLNDVSGIIPCRMTLLLGPFGSGKTTLLLA
LAGKLD
PALKVTGKVTYNGHEMNEFVPQRTAAYISQHDLHIGEMTVRETLEFSARCQGVGSRYDMLV
ELSRREKAA
KIKPDPDIDIFMKAAATEGQEANIVTDYVLKLLGLDICADTMVGDEMIRGISGGQKKRVTTGE
MLVGPLK
ALFMDEISTGLDSSTTYSIVNSLRQSVQILNGTALISLLQPAPETYNLFDDIILLSDGQIVYQGP
REDVL
GFFESTGFKCPDRKGVADFLQEVTSSKKDQQYWVRRDETYKYITSNEFAEAYKSFHVGRK
LGNELATSYD
RSKSHPAALTTQKYGIGKKQLLKICAEREFLMKRNSFVYIFKFTQLSIMAIVAMTLFFRTKMS
RDSMDD
GGIYAGALFFVVMNMFNGMSEISMTIYKLPVFIKQRDLLFFPSWAYAIPSWMLKIPVTFVEV
GLWVFLT
YYVIGFDPNPIRLLKQFLLLILVNLMASGLFRFIGAVGRTMGVANTFGTFALLLQFALGGFVLS
RADVKK
WWIWGYWTSPLMYSINSIFVNEFDGKRWKHVAPNGIEPLGDAVRSRGFFPDAYFYWIGIG
ALIGFTVLF
NICFNLALAYLNPFGKPQVMIPKDNEVDKTTTDEKEQSNSEDQSKKKGMVLPFEPHSITFDE
VIYSVDVP
QEMKDQGATEDRLVLLKGVSGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIEGSIKIS
GYPKKQET
FARISGYCEQNDIHSPYVTVYESLVYSAWLRLPHDVERTRKMFVDAVMELVELTPLRSALV
GVPGVNGL
STEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVCTIHQPSIDIFE
AFDEL
FLMKRGGQEIVVGPLGRRSCHLIKYFESMSGISKIQDGYNPATWMLEVTTSAQEMILGVDF
DLYKRSDL
YRRNKVLISELSVPRPGTKDLYFDSQYSQPFWTQCMACLWKQHWSYWRNPAYTAVRFLFT
VFVALAMGTM
FWDLGTKVGKTQDVFNAMGSMYAVFFLGFQNTASVLPVVAVERTVFYRERAAGMYSAFP
YAFGQVCIEM
PYVQVQAIQFYGVIVYAMIGFEWTVTKFFWYLFIMYFTLLYFTFYGLMSVAVTPNQHIAQIVALFF
FAMWN
LFSGFIIPRPRMAIWWRWYYWACPVSWTLYGLVVSQFGDLQNKITDNETVEQFLRRYFGFK
HDFLGVVAV
MTVAYAVVFAFIFALAIKVFNFQKR

>gi|862574786|dbj|BAR94044.1| PDR-type ACB transporter [Nicotiana benthamiana]

MEPADLSNLRGRSLRASMRGSIRENSISIWRRNGADVFSRSARDEDDEEALKWAALERLPT
YDRLRKIL
FGSQGAAAEDVDVDDLGVLERKNLLERLVKVADEDNEKFLKLKNRIDRVGIDFPSIEVRFEHL
NIDADAY
VGSRALPTFTNFISNFIEGLLDSIHILPSRKRQVTILKDVSGIVKPCRMSLLLGPFGSGKTTLL
ALAGK
LDSALKVTGKVITYNGHELHEFVPQRTAAYISQHDLHIGEMTVRETLEFSARCQGVGSRYEM
LAELSRREK
AANIKPDADIDMFMKAASTEGQEAKVVTDYILKILGLDICADTMVGDQMIRGISGGQKKRVTT
GEMIVGP
SKALFMDEISTGLDSSTTYSIVNSLKQSVRIMKGTALISLLQPAPETYNLFDIILLSDGYIVYQ
GPRED
VLNFFESMGFKCPCERKGAADFLQEVTSKKDQQQYWIRRDEPYRFITSKEFAEAYQSSHVGR
KVSDELATT
FDSKSHPAALTTQKYGIRKKQLLKVCTERELLMQRNSFVYLFKFFQLLVIALMTMTIFFRTK
MPRDTA
ADGNIYSGALFFVIMIMFNGLSELPMTLYKLPVYKQRDFLFYPSWAYAIPSWILKIPVTFAE
VGMWVF
LTYVIGFDPNVGRFFKQFLLLLLLVNQMASALFRFIAAVGRTMGVASTFGAFALLQFALGGFI
LARNDV
KDWIWIWGYWTSPLMYSVNAILVNEFDGKKWKHIVAGGTEPLGAAVVRARGFFPDAYWYWI
GIGALAGFTV
MFNIAYSVALAYLNPFDKQQATISDESENNENTESSPQITSTKEGDSVNENKKKGMVLPFDP
HSITFDEV
VYSVDMPEMRESGTSENRLVLLKSVSGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGG
YIDGSIKISG
YPKKQETFARISGYCEQNDIHSPYVTVFESLVYSAWLRLPQDVDEQKRMMFVEEVMDLVEL
TSLRSALVG
LPGVNLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRAVRNTVDTGRTVVCTIH
QPSIDI
FEAFDELFLMKRGGQEIVGPLGRQSCHLIKYFESIPGVSKIVEGYNPATWMLEVTASSQEM
ALGVDFTE
LYKKSPLYRRNKALIDELSMPQPGTSDLHFDSEFSQPFWTQCMACLWKQHWSYWRNPAYT
AVRFITTFI
ALIFGTMFWDIGTKVSRNQDLINAMGSMYAAVLFLGVQNSSSVQPVVSVERTVFYREKAAG
MYSAIPYAF
AQVLIEIPYIFVQAVVYGLIVYSMIGFEWTVAKFFWYFFFFMFFTFLYFTFFGMMTVAVTPNQNV
ASIVAG
FFYTVWNLFSGFIVPRPRIPIWWRWYWGCPIAWTLYGLVASQFGELQDPLTDQNETVEQF
LRSNFGFKH
DFLGVVAAVIVAFVVFVFAFTFALGIKAFNFQRR

>gi|862574781|dbj|BAR94043.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEPADLSNLRGRSLRASIRGSMRGSIENSISIWRRNGAEVFSHSARDEDDEEALKWAAL
EKLPYDRLR
KGILFGSQGAAAEDVDVDDLGVLERKNLLERLVKVADEDNEKFLKLKNRIDRVGIDFPSIEVR
FEHLNID

ADAYVGSRALPTFTNFISNFVEGLLDSIHILPSKKRQVTILKDVSGIVKPCRMTLLLGP PGSGK
TTLLLA
LAGKLD SALKVTGKV TYNGHELHEFVPQRTATYISQHDLHIGEMTVRETLEFSARCQGVGS
RYEMLAELS
RREKAANIKPDADIDMF MKAASTE GQEAKVVTDYILKILGLDICADTMVGDQMIRGISGGQK
KRVTTGEM
IVGPSKALFMDEISTGLDSSTTYSIVNSLKQSVRIMKGTALISLLQPAPETYNFLD DIILLSDGYI
VYEG
PRDYVLEFFESMGFKC PERKGAADFLQEVT SKKDQQQYWVRRDEPYRFITSKEFAEAYQS
FHVGRKVRDE
LATTFDKSKSHPAALT TQKYGIGKRQLLKVCTERELLLMQRNSFVYLFKFFQLLI ALMTMTIF
FRTKMP
RDTAEDGGIYSGALFFV VIMIFNGLSELPMTLYKLPVFYKQRDFLFYPSWAYAIPSWILKIPV
TFAEVG
MWVFLTYYYVMGFDP NVGRFFKQFLLLLLLVNQMASALFRFIAAVGRTMGVASTFGAFALLQF
ALGGFILA
RKDVKDWWIWGYWTSPL MYSVNAILVNEFDGQKWKHIVAGGTEPLGAAVVRARGFFPDAY
WYWIGVGALA
GFTVMFNIAYSVALAYL NPFDPKQATISDESENNESLSPQITSTQEGDSVSENKKKG MVLP
FDPHSITF
DEVVYSVDMPPPEMRES GTSDNRLVLLKSVSGAFRPGVLTALMGVSGAGKTTLMDVLAGRK
TGGYIDGSIK
ISGYPKKQETFARISGY CEQNDIHSPYVTVFESLVYSAWLRLPQDVNEEKRMMFVEEVMDL
VELTPLRSA
LVGLPGVNGLSTEQRKRL TIAVELVANPSIIFMDEPTSGLDARAAAIVMRAVRNTVDTGRTVV
CTIHQPS
IDIFEAFDELFLMKRGG QEIYVGPLGRQSCHLIKYFESIPGVSKIVEGYNPATWMLEVTASSQ
EMALGVD
FTDLYKKSDLYRRNKAL IDELSVPRPGTSDLHFDSEFSQPFWTQCMACLWKQHWSYWRNP
AYTAVRFIFT
TFIALIFGTMFWDIGTK VSRNQDLINAMGSMYAAVLFLGVQNSSSVQPVVSVERTVFYREKA
AGMYSAIP
YAF AQVLIEIPYIFVQATVYGLIVYSMIGFEWTA AKFFWYFFFMFFTFLYFTFFGMMTVAVTPN
QNVASI
VAGFFYTVWNLFSGFIV PRPRIPIWWRWYYWGCP IAWTLYGLVASQFGDLQDPLTDQNQTV
EQFLRSNFG
FKHDFLGVAAVIVAF AVVFAFTFALGIKAFNFQRR

>gi|862574777|dbj|BAR94042.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEPANLSNLRGSSLRGSTRGSLRANSNTIWRNNGVEIFSRSSRDEDEEALKWAALEKLPT
FDRLRKGLL
FGSQGAAA EVDIYDLGFQERKNLLERLVKVADEDNEKFLLKLKNRIDRVGIDLPTIEVRYEHL
NIDADAY
VGS RGLPTFMNFM TNFVETLLNSLHILPSRKRQLTILKDISGIIKPCRMTLLLGP PSSGKTLLL
ALAGK
LDPALKVTGKVS YNGHELHEFVPQRTAAYISQHDLHIGEMTVRETLEFSARCQGVGSRFEM
LAELSRREK

AANIKPDADIDIYMKAAATEGQEANVVTDYVLKILGLDICADTMVGDDMIRGISGGQKKRVTT
GEMLVGP
SKALFMDEISTGLDSSTTYSIVNSLRQSVQILKGTAVISLLQPAPETYNLFDDIILLSDGYIVYQ
GPRDD
VLEFFDSMGFKCPCERKGVADFLQEVTSSKKDQQQYWSKRKNPYRFITSKEFAEAYQSFHVG
RKLGDDELATP
FDKTKCHPAALTNEKYGIGKKELLKVCTERELLLMKRNSFVYVFKFSQLTIMALITMTLFFRTE
MPRDTT
DDGAIYAGALFFVIMIMFNGMSELAMTIFKLPVFYKQRDLLFFPSWAYAIPSWILKIPVTLVEV
GLWVI
LTYYEIGFDPNITRLLKQFLLIVVNQMASGLFRFIGAVGRTMGVASTFGSFALLLQFALGGFV
LSRDDV
KSWWIWGYWTSPMMYSVNSILVNEFDGKKWNHIVPGGNETLGTTVVKSRGFFPEAYWYWI
GVGALVGFTV
VFNFCYSLALAYLNPFDKPQAVLPEDGENAENVEVSSQITSTDGGDSISEGQNNNKKGMVL
PFEPHSITF
DDVVSVDMPQEMKEQGADQDRLVLLKGVSGAFRPGVLTALMGVSGAGKTTLMDVLAGR
KTGGYIDGDIK
ISGYPKKQETFARISGYCEQNDIHSPYVTVYESLVYSAWLRLPQDVDEKTRKMFVDEVMELV
ELGPLRSA
LVGLPGVNGLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIMRTVRNTVDTGRTVV
CTIHQPS
IDIFEAFDELFLMKRGGQEIYVGPLGRHSCHLIKYFESNPGVAKIKEGYNPATWMLEVTASAQ
EMMLGVD
FTEVYKNSDLYRRNKALISELGVPRPGSKDLHFETQYSQSFWTQCMACLWKQHWSYWRN
PAYTAVRFIFT
TFIALIFGTMFWDLGTVNSKSQDLLNAMGSMYAAVLFLGVQNASSVQPVVAVERTVIFYRER
AAGMYSAIP
YAFGQVSIEIPYIFVQSVFYGIIVYAMIGFEWDVGKFFWYLFIMFFTLTYFTFYGMMSVAVTPN
QNVASI
VAAFFYGVWNLFSGFIIPRPRMPVWWRWYYWANPVAWTLYGLVASQFGDIQTKLSDNETV
EQFLRRYFGF
KHDFLGIVAAVLTAIFYVFVFAFTFAFAIKAFNFQRR

>gi|862574773|dbj|BAR94041.1| PDR-type ACB transporter [Nicotiana benthamiana]
MEPANLSNLRGSSLRGSMRGLRANSNSIWRNNGVEIFSRSSRDEDEEALKWAALEKLP
TFDRLRKGLL
FGSQGAAAEVDINDLGFQERKNLLERLVKVADEDNEKFLLKLKNRIDRVGIDLPTIEVRYEHL
NIDADAY
VGSRLPTFMNFMNTNFVETLLNSLHILPSRKRQLTILKDISGIIKPCRMTLLLGPSSGKTTLLL
ALAGK
LDPALKVTGKVSYNHELHEFVPQRTAAYISQHDLHIGEMTVRETLEFSARCQGVGSRFEM
LAELSRREK
AANIKPDADIDVYMKAAATEGQEANVVTDYVLKILGLDICADTMVGDDMIRGISGGQKKRVTT
TGEMLVGP
SKALFMDEISTGLDSSTTYSIVNSLRQSVQILKGTAVISLLQPAPETYNLFDDIILLSDGYIVYQ
GPRDD

VLEFFESMGFKCPHRKGVADFLQEVTSSKKDQQQYWSKRNEPYRFITSKEFAEAYQSFHVG
RKLGDDELATP
FDKTKCHPAALTNEKYGIGKKELLKVCTERELLLMKRNSFVYMFKFSQLTIMALITMTLFFRTE
MPRDTT
DDGAIYAGALFFVIMIMFNGMSELAMTIFKLPVFYKQRDLLFFPSWAYAIPSWILKIPVTLVEV
GLWVI
LTYYVIGFDPNITRFLKQFLLLIVNQMASGLFRFIGAVGRTMGVASTFGSFALLLQFALGGFV
LSRDDV
KSWWIWGYWTSPMMYSVNSILVNEFDGKKWNHIVPGGNETLGATVVKSRGFFPEAYWYWI
GVGALVGFTV
VFNFCYSVALAYLNPFDKPQAVLAEDGENAENVEVSSQITSTDGGDSISESQNNKKGMVLP
FEPHSITFD
DVVYSVDMPQEMKEQGAGQDRLVLLKGVSGAFRPGVLTALMGVSGAGKTTLMDVLAGRK
TGGYIDGEIKI
SGYPKKQETFARISGYCEQNDIHSPYVTVYESLVYSAWLRLPQDVDEKTRKMFVDEVMELV
ELGPLRSAL
VGLPGVNLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVC
TIHQPSI
DIFEAFDELFLMKRGGQEIYVGPLGRHSCHLIKYFESNPGVAKIKEGYNPATWMLEVTASAQ
EMLLGVDF
TEVYKNSDLYRSNKALISELGVPRPGSKDLHFETQYSQSFWTQCMACLWKQHWSYWRNP
AYTAVRFITT
FIALIFGTMFWDLGTKVSESQDLLNAMGSMYAAVLFLGVQNASSVQPVVAVERTVFYRERA
AGMYSAIPY
AFGQVAIEIPYIFVQSVFYGIIVYAMIGFEWDVGKFFWYLFIMFFTLLYFTFYGMMSVAVTPNQ
NVAIV
AAFFYGVWNLFSGFIIPRPRMPVWWRWYYWANPVAWTLYGLVASQFGDIQTKLSDNETVK
QFLRRFFGFR
HDFLGVVAVL SAYVFVFAFTFAFAIKAFNFQRR