**Supplementary file 5. Amino acid sequences of candidate citrate exporter (CitT) of *Aspergillus* species**

>A. awamori

MSSTTSSSRSDLEKVPVPQVTPRDSDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFIVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYTITGQTGVVEGAQPEAKKTKTSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAIVQPILDALKPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. aculeatus

MSLSREETAKVPEPQLSSVASFTDQDSEKGSISRDPSTFEGQSSEPPPHHIFTRSRKLQMVCIVSMAAIFSPLSSNIYFPALDDVSKSLNVSMTLATLTITIYMIVQGLAPTFWGSLSDALGRRPVFIGTFVVYLVANIALAESKNYGELMAFRALQAAGSAATISIGKIVIGIHCCSTPNAYAGAGVIGDITTSAERGSLVGIFGGVRMLGQGIGPVFGGLLTQYLGYRSIFWFLTILGGVSLVSILVLLPETLRPIAGNGTVKLDGLHKPFLYHFTSQPGVIDGAEPGVKKAKVTWRTVCAPLKFLAEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLEVGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHSDFPIEVARMRNTWWITGIFIVTTAVYGVSLRTHVAVPIILQYFIAFCATGIFTINSALVIDLYPGASASATAVNNLMRCLIGAAGVAAVQPILEALGADYTFVLLAGITLVMVPLLWIEDRWGPGWRHARERRLKAQMP

>A. brasiliensis

MSSTTSSSRSDLEKVPVTQVTPRDNDSDKGSVSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSLSDATGRRPVFIGTFVVYLVANIALAVSKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIFGGVSLLSILVLLPETLRPIAGNGSVKLHGIHKPFIYMITGQKGVIEGAQPEAKKTKTSWKSVFAPLTFLIEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVAVYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAVVQPILDALNPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANSN

>A. carbonarius

MSSRTDIEKVPEPQVTPKDLDSEKDATSPEPSVLESQPSEKPPHHIFTRSRKLQMVGIVSLAAIFSPLSSNIYFPALDDVSQSLHISMSLATLTITVYMIVQGLAPSFWGSLSDATGRRPVFIGTFIVYLIANIALGESKNYGELMAFRALQAAGSAATISIGAGVIGDITTSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYFGYRSIFWFLTAFGGVSLLSIMVLLPETLRPIAGNGTVKLTGMHKPFIYSITGQKGVIEGALPDARKGKVTWRAVFAPLTFLIEKDVFITLFFGSVVYTVWSMVTSSTTDLFSEVYGLSSLQIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHSDFPIEVARMRNTWWVIAIFVVATALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAVVQLIIDALTAEYTFILLAGITLAMTPLLYIEDRWGPSWRHARERRLKAKANGN

>A. carlbadensis

MASTVEDKETAAAEQDTLRVAPYSAFSRAQKRFIVFSASWAGFFSPVSSQIYFPALNSVANDLGVSGALINLTLTSYMIFQGLSPMFVGDFADKAGRRPAYLVCFIIYTAANIGLALQDNYAALFVLRCLQSAGSSTTIALSSGVVADIAIAAERGSYMGFVTAGSLLGPALGPVVGGLLSQYLGWRSIFWFLVIFGCAFLVPFVLFFPETSRVIVGDGSIPAPPWNQPLVQWLKTRKSPQQETITRPKLRFPNPLKTLSIVFQKDVSIILLANAVLFAGFYDVSASIPSIFEDLYGLDDLQIGLCYIPFGLGATVAALITGKMLDRNFRRLARLSNIPLEETRARNLQGFPIEKARLQVALPTLLMGSSTVIAFGWVLHFGVHIAAPTIILFFMGLTLTGAFNTVSTLLVDFYPMNAASATASNNFVRCLLGAGATALIDPMLRAMGRGWCFTFIALVMMSTTPLLLVIMHFGPRWREERQRKHEAR

>A. clavatus

MSTGVREVQEGRAAASSSSNDGDNVIQYHHVDRPAEAASGSDPSALEAQKETTLQVDTEQAHSAFTQNEKRFIILMISMASFFSPLSGQIYFPVMPTLVKNYHLTTALINLTITTYMILQGLAPSFMGTFADSGGRRPAYILAFAIYTAANIGLALQNSYVALMILRCVQSAGSSGTVAFGYGVVSDIATAAERGSYIGPMAAGVMVAPAIGPVIGGILAKFLGWRSVFWFLVIISGGYLVVFTIAVPETARTIVGDGSVPPKESWRMSVVQYWSARRRLRKMSVEERRVHEEQRARLNQQHGKKKIAFPNPLEAFAILLEKDALIIISYVGLAMLSNTALLTSIPNLFGKLYGFNDLQIGLCFLPLGVSSCIAAVLNGKLLDFNYRRTARKLGLSVDKKKGDDLRGFPIEQTRLQTFFPIMAVGVAAFIPYGWVLQQRTPLVAPLILQFIIGFSFIASLNTLNTLMVDLFPDRAATASAASNLVRCWLGAVGAAVVDHMLSAMGWGWCFAFWGLLMLAGFALLLLEYRHGMKWRLARLTKLDQIKAAKQAEKEAQQAADETNEDKKDAYGPNSGPNDGSAK

>A. flavus

MGQPNDLKSPEVASVPVSSKNSISDPSSPLEDSLEAQQPSPPIYHIFSRSQKLEMVVIVSLAAIFSPLSSNIYFPALGAISRDLHTSMTLTTLTVTIYMIVQGIAPTFWGSISDTSGRRPVFIGTMVVYIIANIALAVSTNYGELMAFRALQAAGSAATISIGAGVIGDVTTSAERGSLLTVRQVRMLGQGIGPVFGGLLAQYLGFRSIFWFLTICASVSLFTILLLLPETLRSIAGNGTVPLRGLQKPWLYYITGQPGAEEGAESGIKKSRVTFGTVFAPLKFLFEIDVFITLFFGSIVYTVWSMVTSSTSDLFEETYNLTTLQVGLTFLGNGSYTIGYLMDYNHRLTEREYCEKHNYPPGTRVNLKTHPDFPIETARMRNTWWITVIFIVCVAVYGVSLRTHLAVPIILQYIIAYCSTGIFTINSALVIDLYPGASASATAVNNLMRCLIGAAGVAAVQPIIDALGPTYTFVLLAGITLVLCPLLWVETNYGAGWRLARHQRLNRPRAG

>A. fumigatus

MSSTGGKTPTSNTKTHPTVMTDPPYSIFDTRQKWLIIIIVSTAATFSGFASNIYFPALPTIAIDLNVSLELVNLTVTSYLIFQGLAPSFWGPVSDVKGRRTAYICTFIVFFCACIGLAETKNYTTLIVVRCLQSAGSASTIAIGSGVIGDITTRADRGGYMGVFQAGLLVPVAVGPVIGGAIAGSLGWKAIFWFLAIYSGVFLCLLTLVLPETLRSIVGNGSRKPSHPVLRYPLNLYQKSSKMPWQQPQDGLSTAEAKKKIDLLGPLRMLLSNHAAPIILFLAVYYAVWQMSITAMSSLFKSRYGLSELQIGLTFIANGVGSMVGTLVTGKILDADYRRVKTKYEASFDNEHRDAMSQTAREENFPLESARLRLVPIFSITQCVSIILFGWTIQYPDKVHIAVPIVSTFITGWTAVSTQSLIMTYLVDLFPDRSAAASASLNLARCLFAAGGTSFIMPMINGVGVGVAFTICVAVQMVALIGPLIQWRFAAGWRRKEREEAAKREGQGEC

>A. glaucus

MENERRKESDSTMASLSTSHTVKDTTPDIVECKTDGGSSQDHRGSENDGKCDCEQADKEPSTLEAQPADEQTPVHSAFTKNEKRFIISMISMASFFSPLSGQIYYPVMPTLVRNYHLTTALVNLTVTTYMILQGLAPSFMGTFADSGGRRPAYILAFVIYTAANIGLAVQDSFAALLVLRCLQSAGSSGTVSFGYGVVSDIATPSERGRFVGPMAAGVMVAPALGPVIGGILAKFLGWRSVFWFLVIISGGYLVVFAIMMPETARRVVGNGSVPPKEWWRMSLIQYLAERRRVKKMSAEEREGHEEQQLALSNNASHTRKLKFPNPLETFAILLEKDALIIITFIGIVMFANIALLTSTPNIFTKLYGFNDLQIGLCFLPLGTSACLAAILNGRLLDWNYRRTATRLGFHIDRKKGDDIRTFPIEKTRLQTFFPLMSVGILTYLPYGWVLQKRAPLVAPLILQFIIGFCFVAALNTLNTLIVDLFPDRSATAAAANNLVRCWLGAVGAALIDQMLRGMGGGWCFTFLGLVMAVGLGFVSLEGKYGMEWREQRRVKMEKKKEKKERKEEKKQEEQIKG

>A.kawachii

MSSTTSSSRSDLEKVPVPQVTPRDNDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFVVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLIIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYSITGQKGVVEGAQPEAKKKQSSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAVVQPILDALNPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. luchuensis

MSSTTSSSRSDLEKVPVPQVTPRDNDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFVVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYSITGQKGVVEGAQPEAKKKQSSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAVVQPILDALNPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. nidulans

MASPQTPSKEGDTGLKGGLDVVATNTTGEVPYSVFTKAQKRYIVFFASWAGFFSPVSSQIYFPALNSIADDLGVTSALINLTLTSYMIFQGVSPMFVGDFADKAGRRPAYMVCFLIYIAANIGLALQDNFAALFVLRCLQSAGSSTTIALSAGVVSDIAIAAERGSYMGFVTAGSLLGPAMGPVIGGLLSQYLGWRSVFWFLTIFAGAFLVPFVLLFPETARAIVGNGSIPPPKWNIPLLTLFQARKEPQPEDFDWPKLRFPNPIRTLSIVFQKDIAIILIANAILFAGFYDVTAAIPSIYNELYGLDDLYIGLCYVPFGLGATVASIATGKLLDFNYRRLAKQLNVPLQETRARNLTHFPIEFARLQVALPLLTLGAFTIIAFGWCLNYGVHLAAPTTILFLMGLTLTGAFNTVSTLLVDFYPSNASAATASNNLVRCLLGAGATALIDPMLEAMGRGWCFTFIALVMLCTMPLLCVVMRWGPRWRNERQAKIDAATTGNCQN

>A. niger\_ATCC1015

MSSTTSSSRSDLEKVPVPQVTPRDSDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFIVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYTITGQTGVVEGAQPEAKKTKTSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAIVQPILDALKPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. niger\_ATCC64974\_SPB48923

MSSTTSSSRSDLEKVPVPQVTPRDSDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFIVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYTITGQTGVVEGAQPEAKKTKTSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAIVQPILDALKPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. niger\_CBS51388

MSSTTSSSRSDLEKVPVPQVIPRDSDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFIVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYTITGQTGVVEGAQPEAKKTKTSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAIVQPILDALKPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. niger\_H915-1

MSSTTSSSRSDLEKVPVPQVTPRDSDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFIVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYTITGQTGVVEGAQPEAKKTKTSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAIVQPILDALKPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. oryzae

MATARSDTDKAPIVSFVEEDERQPSDSQLEDQVTQSKSHHIFSRRKKLQMVCIVSMAAIFSPLSSNIYFPALGEVSRVSATKTKHSLCDLSRDVYMIVQGISPTFWGSISDATGRRPVFIGTFIVYMIANVALAVSTKYGELMAFRALQAAGSAATISIGAGVIGDITTSAERGSLVGIFGGVRMLGQGIGPVMGGILTQYLGFRSIFWFLTICAAVSLLSILIFLPETLRHIAGNGTVRLRGIHKPFLYVVIGQKGAITGADPGQKKPELTWRAILAPLTFLAEKDIFVTLLFGSIVYAVWSMVTSSTTDLFQDVYHLTSLEVGLTFLGNGFGCISGSYLVGYLMDYNHKLTEREYCDKYGYPSGTRVNLKSHSDFPIEVARMRHTWWIVGLFIVTTAVYGVSLRTHIAVPIILQYLIALCSTGIFTINSALVIDLYPGASASATAVNNLIRCLVGAAGVAAMQPMLDVLTPDYVFLLLAGITLIMAPLLWMESRFGASWRHEREMRLKDKGCT

>A. terreus

MSSPDSTTHTPTTTPTVVTPDPPYSIFDKRQKWLIIIIVSTAATFSGFASNIYFPALPTIANDLNVSLELVNLTVTSYLIFQGLAPSFWGPISDVKGRRTAYICTFIVFFCACIGLAETKNYATLIVVRCLQSAGSASTIAIGSGVIGDITTRADRGGYMGIFQAGLLVPVAVGPVIGGAIAGSLGWKAIFWFLAIYSGVFLCLLIAVLPETLRSIVGNGSRKSSHPLRRYPLNLYQKSSKVPWQQGQDGQSTTAAKKIDLLGPLRMLLSNHAAPIIFFLAIYYAVWQMSITAMSSLFKTRYGLSEIQIGLTFIANGVGSMVGTLVTGKILDADYRRVKTKYEASFDSEHGDAISQTAREENFPLESARLRLVPIFSITQCLSIILFGWTIQYPNKVHIAVPIVSTFITGWTAVSTQSLIMTYLVDIFPDRSAAASASLNLARCLFAAGGTSFIMPMINGVGVGVAFTICVVVQLVALIGPLVQWKFAARWRRKEREEAAQREEQKGEC

>A. tubingensis

MSSTTSSSRSDLEKVPVPQVTPRDNDSDKGSLSPEPSTLEAQSSEKPPHHIFTRSRKLQMVCIVSLAAIFSPLSSNIYFPALDDVSKSLNISMSLATLTITVYMIVQGLAPSFWGSMSDATGRRPVFIGTFVVYLVANIALAESKNYGELMAFRALQAAGSAATISIGAGVIGDITNSEERGSLVGIFGGVRMLGQGIGPVFGGIFTQYLGYRSIFWFLTIAGGVSLLSILVLLPETLRPIAGNGTVKLNGIHKPFIYSITGQKGVVEGAQPEAKKTQSSWKSVFAPLTFLVEKDVFITLFFGSIVYTVWSMVTSSTTDLFSEVYGLSSLDIGLTFLGNGFGCMSGSYLVGYLMDYNHRLTEREYCEKHGYPAGTRVNLKSHPDFPIEVARMRNTWWVIAIFIVTVALYGVSLRTHLAVPIILQYFIAFCSTGLFTINSALVIDLYPGASASATAVNNLMRCLLGAGGVAVVQPILDALNPDYTFLLLAGITLVMTPLLYVEDRWGPGWRHARERRLKAKANGN

>A. versicolor

MAAKGPESTFEAVSSPAEAKPAPEIEPPYHILSKKQKWNLVIFVSLAGAFSPLSSNIYFPALDTISKDLGVSATLTSLTITVYMIVQGIAPSLFGALSDSSGRRLTFTVSLTIYTAANLALAFTSNYAMLMVLRGVQAAGSAATISISAGVIADIACPQERGGFMGTNAGIRMLGQGIGPVIGGLLNDAWGFRSIFWLLFVMSAIVLGALLVFLPETQRSRAGNGSVPLSGFHKPLAYAFKPPMAWTQPSGTASPPKPHTPMNLKKAFSPLAYILEKDIATLLAWGAIAYTAWSMVTSSTTSMLLLGFPDLTQWQIGVCFLPNGVGCMAGSLSTGWLLDQGFRRAETNFKAKHGIAADEPIVPGAHGEEFSYIQARLRLMPLFSVVLVVSLALYGPSFEFNDARRYFAPNLAAPLVLQFLIAFTATSIFNINSTVLIDCFPDRPASATALNNLCRCLLGAAGVAAIEPLIGAVRAMRAFLIVTGIVVFFTPLIWVEWRFGEQWRKQRENRLAQAVA

>A. wentii

MDISKEKAPEATVTSLPGSRQTSPPESIKLEGQPEITPPPHHVFSRGQKLQMVYIVSLAAIFSPLSSNIYFPALGDISKSLNTSMSLVTLTVTVYMIVQGLAPTFWGSMSDATGRRPVFIGTFAVYLIANIVLAVSTNYPELMVFRALQAAGSAATISIGAGVIGDMTTSSERGSLVGIFGGVRMLGQGVGPVFGGILSEYLGFRSIFWFLTIAGAISLLSILVFLPETLRPIAGNGSVPLTGFHKPFIYYIFPQKHAQEGATPGVEKTKVTWKAVFSPLTFLFEKDVFITLFFGSIVYTFWSMVTSSTTSLFQEVYGLSTLQVGLTFLGNGFGCMSGSYSVGYLMDYNHRMTEREYCEKRGYPSGTRVNLKSHADFPIEVARMRNTWWVIALFVITTALYGVSLRTHLAVPIILQYFIAFCATGIFTINSAFVIDLYPGASASATAVNNLIRCLIGAAGVAVVQPIIDALTAEYTFIMLAGITVGMTPLLWIESKYGPGWRHAREERLARK

>A. fischeri

MSGGVREIQERVAPSSSSNDSENVIQYHVEKPAEVSSGSDPSALEAQKATTLQADGETDGEAHSAFSKNEKRFIVFMISMASFFSPLSAQIYFPVMPTLVKNYHLTTALINLTITTYLILQGLAPSFIGTFADSGGRRPAYILAFTVYLAANIGLALQNSYVALMVLRCIQSAGSSGTIAFGYGVVADIATAAERGSFIGPVSAGVMVAPALGPVIGGILAKFLGWRSVFWFLVIISGSYLVVFMITMPETNRNIVGNGSVPPDQWWRMSVIQYLAARRRLQKMTAEERLAHQEQRANLNQAREHQKLSFPNPLKAFAILLEKDAFIVVSYVGLAMLANTALLTSTPNLFGKLYGFNDLQIGLCYIPLGVGSCIAAILNGKLLDFNYRRIAHKIGMPVDRKKGDDLRGFPIEKARLQAFFPLMALGVAAFIPYGWVLQQGAPLAAPLVLQFIIGFSFIASLNTLNTLMVDLFPDRASTASAASNLVRCWLGAVGAAVIDHMLSAMGWGWCFVFWGLLMLVGLGLLWVEYHRGMKWRLARLTKLDQKRVEKETQKAASENKEAHGDENEANSDT

>A. niger\_ATCC64974\_SBP43542

MVSVKSSEKQCDDPDPKAERVPSDTEPPQEDPNSTPGETEVYSTFSRWTKALIVLMASVASIFSSLSANIYLPALDTIAEQLHVSDTLINLTLSTYMIFQGLAPTIFGGLSDSAGRRPAYILCFITYIAANIGLALQRNYAALLILRCLQSAGGSSTIALANAIVADVVTTAERGRYIGYVSAGFILGPSMGPIIGGLLTQFLGWPFIFWLLTILAGAFFIVLLFFLPETARKVVGNGSQYPPIWNLSGLQLCSRRQRADGYSSVETHIRFPNPLKALTIIFKKEVFLILLGNGVAIAGYFAVTGTITSQFSRIYGFNEVQIGLCFIPLGAGNLIAAYTQGIITDWNYRRHAHSQGIDISSKHRPDLDKFAIERPRTEVVLPQAIGEALSMIAYGWVLHYETNLAGPIILLLLIGYTSAAVMNTLSALMVDIYPQSPAMATALMNLTRCWLGAGAAAAILPMIDAIGNGWAFTVIGFMCFLCAPAMVVVWIWGYDWRRQRHCREETSLGNHISN

>A. niger\_ATCC64974\_SPB46513

MPSEDSATPVQSNTSTGVATPEPPYSIFDKRQKWLIIIIVSTAATFSGFASNIYFPALPTIANDLNVSIELLNLTVTSYLIFQGLAPSLWGPVSDVKGRRTAYMCTFVVFLGACIGLAESKNYATLIILRCLQSTGSASTIAIGSGVISDITTRAERGGYMGIFQAGLLVPVAVGPVIGGGIAGSLGWKAIFWFLTIYSGAFLCFLIVFLPETLRSIVGNGSLKSSNPLVNFPLELYQKTTKVEWEQVPDGQSQRAAKKKIDVLGPLRILISNHAAPIIIFLAVYYAVWQMSITAMSSLFKSRYGLSEIQIGLTFIANGVGSMIGTLVTGKILDADYRRVKSRYEASLDAEQGEETTAATREENFPLEKARLRLVPIFSILQCLSIILFGWTINYARKVHIAVPIVSTFITGWTAVSTQSLIMTYLVDIFPDRSAAASASLNLARCLFAAGGTSFIMPLINSVGVGVAFTICVAVQLLALVGPLIQWRFAAGWRRKERERDAQRADVKN