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NTDB id 1169 A1552VC RS11075 WP 000648511.1	MKATQTLP..LKNYRMKGINSMCK..KVSCGMLAISIEIEVRDKLKDQHITQIKLKLKGSVSLAR.LITHRV	65
NTDB id 1402 DSB67 RS12670 WP 010643257.1	MKTIAPIQLKNYRMKGINSSGK..KTSGNVLAMTEIEVRERLDAQHIKIKLKLKGSISFITK.ISHRV	64
NTDB id 1113 AAA85695.1 219..1451()	MAKNGGFSLFAKKEKRFIFECGRHSASDKLVNGEVSATFEEBEARKKLAKRGIRPLQITRV....KTSSKRKI	67
NTDB id 1112 NGFG RS09215 WP 003689811.1	MAKNGGFSLFAKKEKRFIFECGRHSASDKLVNGEVSATFEEBEARKKLAKRGIRPLQITRV....KTSSKRKI	67
NTDB id 1252 GC085 RS07730 WP 011213805.1	MDKNSPPLTFHYQGINKAGQ..KMEGDIQARSLATAKADLRKQGITVTKVVKKRKPIFDR.KNKKI	64
NTDB id 223555 SJ2017 RS02080 WP 065109604.1	MATAAARRKPRTKKDTKLQPKTFTFEWKGVNRDQG..RTSGELRGTSIAEIRSVLKAQCVTPKGVKKAATPIFK..SEKKI	77
NTDB id 1198 PSJM300 03950 AFN76868.1	MAQKAIKNSVFTWEGLDRLQCA..KIKGELSCLVSPALVKAQLRKQGINPQKVRKKSISLFS..AGKKI	63
NTDB id 1016 ACIAD RS01680 WP 004920476.1	MAAKKTQVMPVFAYEGVDRKGI..KLKGELPARNMALAKVTLRKQGITITITIREKRKNIFEGLLKKKV	66
NTDB id 1059 ABD1 RS01610 WP 000279215.1	MAVKKAQMMPTRFAYEGVDRKGV..KIKGELPAKNMALAKVTLRKQCVTVNRKREKRKNIFEGLLFKKKV	66
consensus	* * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

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NTDB id 1169 A1552VC RS11075 WP 000648511.1	KSKDITILTRQLATMTTGVPIVQALKLVGDNRKAEMKSLAQITKSVEACTPLSKAMRTASAHFDTLVVDLVEETGEMS	145
NTDB id 1402 DSB67 RS12670 WP 010643257.1	KGKDITIFTRQIATMTMTGVPIVQALKLVSENHKKAEMKSLMSVTRAVEACTPMSKAMRTASTHFDPLYTDLTAIGEQS	144
NTDB id 1113 AAA85695.1 219..1451()	TQEDITVFRQLSTMINAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQCSSLSRAFSNHPKYFDRFYCNLVAAGETG	147
NTDB id 1112 NGFG RS09215 WP 003689811.1	TQEDITVFRQLSTMINKAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQCSSLSRAFSNHPKYFDRFYCNLVAAGETG	147
NTDB id 1252 GC085 RS07730 WP 011213805.1	TQADITVFSRQLATMTIESGIPLVQAFDIVAKQGSNKRLLKDLTETIKHDIETGLTAESEIKHPLIFYNELFCNLVDAGEKS	144
NTDB id 223555 SJ2017 RS02080 WP 065109604.1	TAMDIAITRQIATMLAAGVPLVTTIELLGKGHEKAKMRELLSGILTDVQSGIPLSDAIRPHRQYFDDLYVDLVAAGEHS	157
NTDB id 1198 PSJM300 03950 AFN76868.1	KPMDIALFTRQMATMMKAGVPLIQSFDIIGEGFDNPNMMLKLVDDLKQEVAAAGNSFASIRKKPQYFDDLYCNLVDSEGS	143
NTDB id 1016 ACIAD RS01680 WP 004920476.1	KPLDIALFTRQLATMMKAGVPLVQAFEIVAEGLNPAMRDVVGLKNEVEGCGNTFAGALRKYPQYFDNLFCSLIESGEQS	146
NTDB id 1059 ABD1 RS01610 WP 000279215.1	TTLDITIFTRQLATMMKAGVPLVQCFEIVAEGLNPAMREVVLGKGEVEGCGSIFASALRKYPQHFDNLFCSLVESGEQS	146
consensus	* ! ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

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NTDB id 1169 A1552VC RS11075 WP 000648511.1	GNLPEVFERLATYREKSEQLRKAKVIKALIYPSMVVLVALGVSYLMLTMVLPFESMFKGFAGELPWFETQQVVLKLSHWVQA	225
NTDB id 1402 DSB67 RS12670 WP 010643257.1	GNLSQVFERLATYREKSEQLRKAKVIKALIYPAMVVLVALGVSYLMLTRVLPFEEKMTGFGADLPARTQMVNLSAATQN	224
NTDB id 1113 AAA85695.1 219..1451()	GVLESLLDKLATYKEKTAIRKKVKLTALTYPVSVIAVAIGLVFVMMIFVLPAPFKEVYANMGAELPALTQTVMDSDFEVS	227
NTDB id 1112 NGFG RS09215 WP 003689811.1	GVLESLLDKLATYKEKTAIRKKVKLTALTYPVSVIAVAIGLVFVMMIFVLPAPFKEVYANMGAELPALTQTVMDSDFEVS	227
NTDB id 1252 GC085 RS07730 WP 011213805.1	GSLDIMLDKVATYKEKTEILIKKKIKKALTYPVIAVMVALLVTAGLLIYVVPQFESLFKGFAGADLPAMTRAVITMSEFMQA	224
NTDB id 223555 SJ2017 RS02080 WP 065109604.1	GSLDAVFDRITAVYKEKABALSKIKKAMFYPAAVVIVAVIAVTVLLLFVVPQFEEIFNGFAGELPAFTQMIIGTSEWLQS	237
NTDB id 1198 PSJM300 03950 AFN76868.1	GSLETLLDRVATYKEKTEALKAKIKKAMNYPIAVVIVAVIIVTALLIKVVPQFQDVAFANFGAELPAFTLMVIGLSEALQA	223
NTDB id 1016 ACIAD RS01680 WP 004920476.1	GSLEIMLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAVIIVTILMVKVVPVFKDLFTSFGADLPFTQLVVNMNSNMQD	226
NTDB id 1059 ABD1 RS01610 WP 000279215.1	GALETMLDRVATYKEKSELLKQKIKKAMKYPATVIVVAVIIVTILMVKVVPVFKDLFASFGADLPFTQMVVNMNSKVMQE	226
consensus	! ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

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NTDB id 1169 A1552VC RS11075 WP 000648511.1	YSLWAFIAIAAAIFGLKALKNSFQIRLKTSLGLKFPITCNVLAKASIAKFSRTLATSFAAGPIILASLKITAKTSGNV	305
NTDB id 1402 DSB67 RS12670 WP 010643257.1	WGPFTIGLSFVSLIISGKIMSQRSDSFRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFSAGPIILTALKITTSKTSGNM	304
NTDB id 1113 AAA85695.1 219..1451()	YGWMVLIALGFAIYRFLKLKARSIKIQRRNDAILLRMPIFGDIVRKGTIARWGRITATLFAAGVPLVDVLDSTAGAAGNL	307
NTDB id 1112 NGFG RS09215 WP 003689811.1	YGWMVLIALGFAIYCFLLKLRARSIKIQRRNDAILLRMPIFGDIVRKGTIARWGRITATLFAAGVPLVDVLDSTAGAAGNL	307
NTDB id 1252 GC085 RS07730 WP 011213805.1	YWYLIIFGALCGVVSFFYAKNSLEFAQITDRVMLKLPVIGPILKAAIARFARTLSITFAACGLPLVEALKSVAGATGNI	304
NTDB id 223555 SJ2017 RS02080 WP 065109604.1	SWYYFAVALIICIFAFKRAHRNSQGFRDQVDVALLKIPATGDILHKAAMSRFARTLATTFAAGVPLIDGLESAAGASGNA	317
NTDB id 1198 PSJM300 03950 AFN76868.1	WYVVVLACGFVCAAYAFKQAHTRSEKFRNWFDRMLKVPVVGDIYKSSVAREARTLSITFAAGVPLVDALSVAGATGNV	303
NTDB id 1016 ACIAD RS01680 WP 004920476.1	YWFILILIVIGAAIAGFLEARKRSKFRDQLDRLVLRPLPIVGDILVYKATIIARYSRTLATTFAAGVPLIDALASTAGATNNT	306
NTDB id 1059 ABD1 RS01610 WP 000279215.1	YWFIMIIAIGAVIAAFLEAKKRSKFRDGLDKLALKLPPIFGDILVYKATIIARYSRTLATTFAAGVPLIDALESTAGATNNV	306
consensus	* * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

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NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus

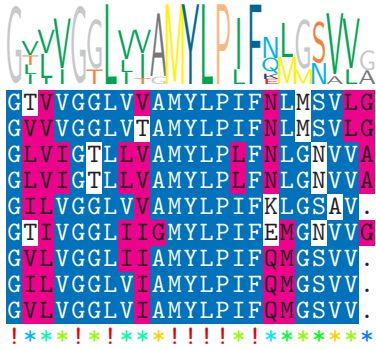


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NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
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NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus



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☐ non conserved
☒ similar
☒ ≥ 50% conserved