

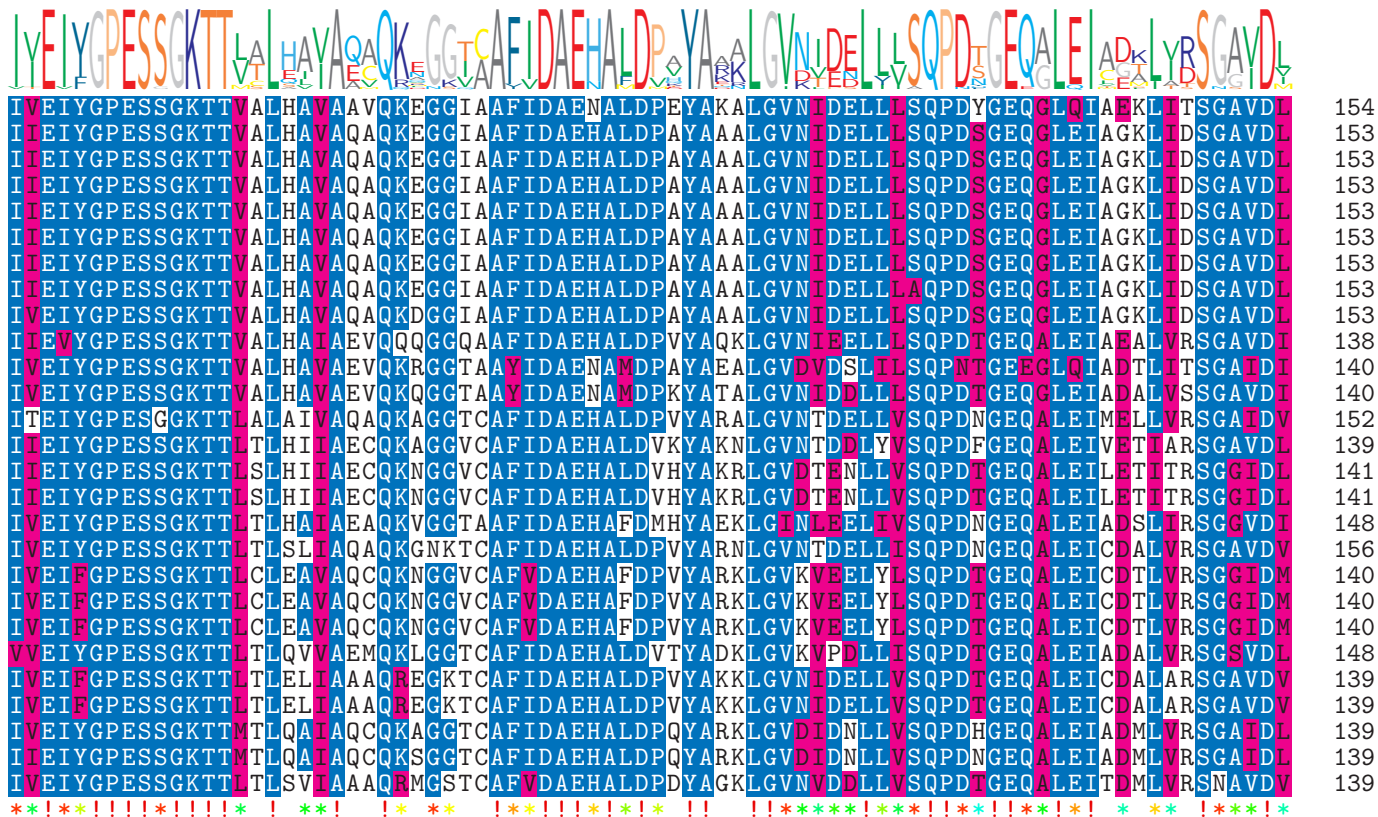
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKDFGKCSIMRLCER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDIALCSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERRKALDDALKNIEKDFGKCAVMRLCER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGDERRKALDDALKNIEKDFGKCAVMRLCER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKCSIMKLCEK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 79928 LACWKB8 RS03160 WP 038521878.1	MAKDEKQAALENALKKIEKNFGKCAVMRMCDK.ADTKISTIPSGLALDAALCVGGYPRGR	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKCSIMRMCEK.VDTQVSTVSSGSLALDEALCVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKCSIMKLGAE.SKLDVQVVSTGSLSLDIALCVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDENKRSKSLDAALKSLDKTFGKCTILRLCDK.EVEKIDSIGTGSVGLDLALCIGGVPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDISTGSLGLDLALCIGGVPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDISTGSLGLDLALCIGGVPRGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	MAKT..ETTSFNDDKKKALAALVLEKLDKTYGKCTVMKLCGTVVDHNLEVIPSGSLGLDLALCVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKCSIMKLGGT.EQLDIESVSTGSLGLDLALCIGGLPMGR	76
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NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKCAIMKMDGSQQEENLEVIISTGSLGLDLALCVGGIPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKCAIMKMDGSQQEENLEVIISTGSLGLDLALCVGGIPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKCSIMKMGDA.EVEPVQVVSTGSLGLDVALCVGGIPRGR	68
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKCSIMRLCDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDENKSKALQAALSQIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALCIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALCIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKAALAAALGQIEKQFGKCAVMRMCDH.DRQAIPSTGSLGLDIALCIGGLPKGR	59
consensus	*** ** * *! *! ! *! ! *! ! *	

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c AC162003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 79928 LACWKB8 RS03160 WP 038521878.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

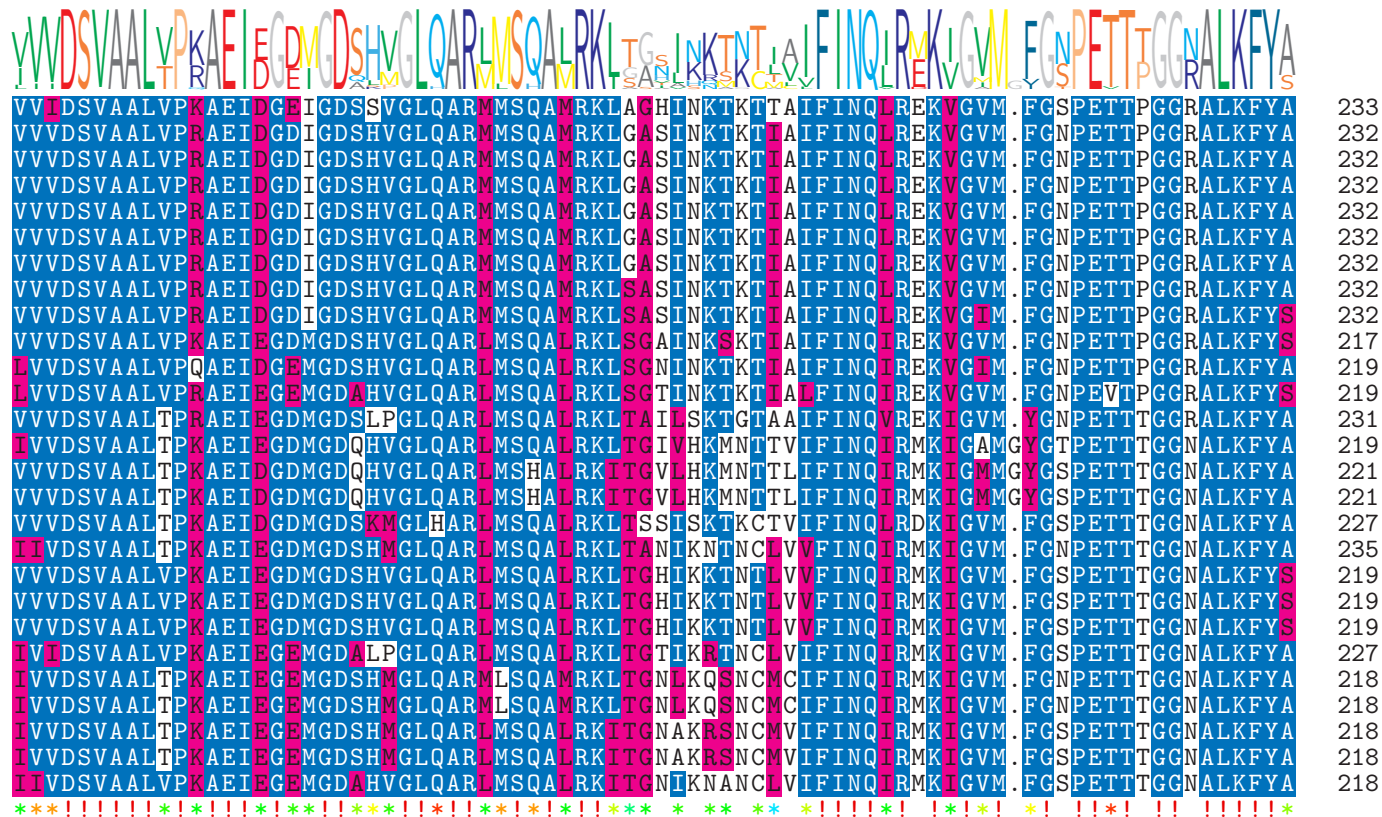
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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STK....	IEEGSGDNKTQ	CKITK	KVVKNKVAPPF	KVALVD	IMF	GEGIS	STGEL	LNIA	VEEG	TIKK	SGAW	F	309						
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRLDIR	RIAS....	L	KQNE...	QHICNRA	KV	KVVKNKVAPPF	REAEFD	IMF	G	G	IS	KEGE	IIDL	GVKL	DLI	VD	K	SGAWL	293	
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NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIR	RRTGS....	I	KKGE...	EVLGNETR	V	KV	KNKVAPPF	RQAEFD	ILY	G	G	IS	WEGEL	IDIG	VKND	I	INK	SGAWY	291	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIR	RRTGS....	I	KKGE...	EVLGNETR	V	KV	KNKVAPPF	RQAEFD	ILY	G	G	IS	WEGEL	IDIG	VKND	I	INK	SGAWY	291	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIR	RIGS....	I	KKGD...	EVVGNETR	V	KV	KNKVAPPF	REAEFD	ILY	G	AG	V	SR	EGE	IIDL	GV	EAK	VVEK	SGAWY	299
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIR	RRTGA....	I	KEGE...	EVVGNETR	I	KVVKNK	TAAPF	KEANTQ	IMY	G	CFN	REGEL	IDLG	VKHK	MVEK	SGAWY	290			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIR	RRTGA....	I	KEGE...	EVVGNETR	I	KVVKNK	TAAPF	KEANTQ	IMY	G	CFN	REGEL	IDLG	VKHK	MVEK	SGAWY	290			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIR	RIGQ....	V	KEGD...	EITGSETK	V	KVVKNK	MAPPF	REAEFD	ILY	GK	CV	NQL	GEL	VDLAV	QQN	IVQK	AGAWY	290		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIR	RIGQ....	V	KEGD...	EITGSETK	V	KVVKNK	MAPPF	KEAIFQ	ILY	GK	CT	NQL	GEL	VDLAV	QQD	IVQK	AGAWY	290		
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIR	RRTGA....	V	KEGD...	EVVGSETR	V	KVVKNKVAPPF	RQAEFD	ILY	GK	GI	YRNGE	IIDL	GV	QQGL	V	VEK	SGAWY	290		
consensus	**!* **!* *														**!* **!* *						

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NTDB id 600 KW2 RS01765 WP 011675413.1	AYNDEKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGILDDSEVAETEEETTASCTKAKAKKEE.KAVETEEIELELED.	387
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SYKDEKIGQGSENAKKYLADNPEVFAEIDHQVRVQFCGLIDGEEAAES....KKDE....VAQVD.S..VNEEVTLDLGDE	377
NTDB id 453 Spy49 1753c ACI62003.1	SYNGEKIGQGSENAKKYLADHPQLFDEIDRKVRVKFCGLLEESEESAMAVASE.....E.....TDDLALDLNG	373
NTDB id 408 SMU RS09530 WP 002262392.1	SYNGEKIGQGSENAKKFLADNPEIFDDIDHKVRVQYCLIEEDNTEEKQSSKEK.....ETDE.K..ADKNLVLELDDT	378
NTDB id 115 BSU 16940 NP 389576.2	SYEEERLIGQGRENAAKQFLKENKDIMLMIQEQIREHYCLDNNGVVQQQAEETQEELEFEE.....	348
NTDB id 79928 LACWKB8 RS03160 WP 038521878.1	SYNDERIGQGRENAAKYLEDNPEVYDEVQKQVRQAYCIDEESVAEREDPEKIKEKKAKNAANTEKEASAKKEANSKSN..	370
NTDB id 625 LCA RS02525 WP 011374196.1	SYGSEIRIGQGRENAAKNYLADHEDVEDEVRLKVRAAAYCISDVPEEDLPTTEDEQINILPDDS.TE.E.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	SYGDERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	SYQDKKIGQGRENAKALLKEDKALADEITLKIKESICSNEEI....MPLPDE..PLEEME.....	347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	SYDGTKIGQGKKNNAVVKLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSNDESDV...EEFSEEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	SYNGAKIGQCKDNVRVWLKENPEISDEIDAKIRALNCVEMHI....TEGTQDETDGER.....PEE.....	348
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	SYQGNKIGQCKNNVIRYLBENPQISTEIBAVIREQLLTAKASD....QTAA.HDETEEEPDLL..ES.....	349
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NTDB id 1205 PSJM300 05545 AFN77183.1	AYKGSKIGQCKANAACKYLBENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADADI.....	347
consensus	*! ***!!!***** * * ***** * * * *	

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NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE		388
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NTDB id 1074 ABD1 RS10195 WP 000344167.1			349
NTDB id 1205 PSJM300 05545 AFN77183.1			347
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved