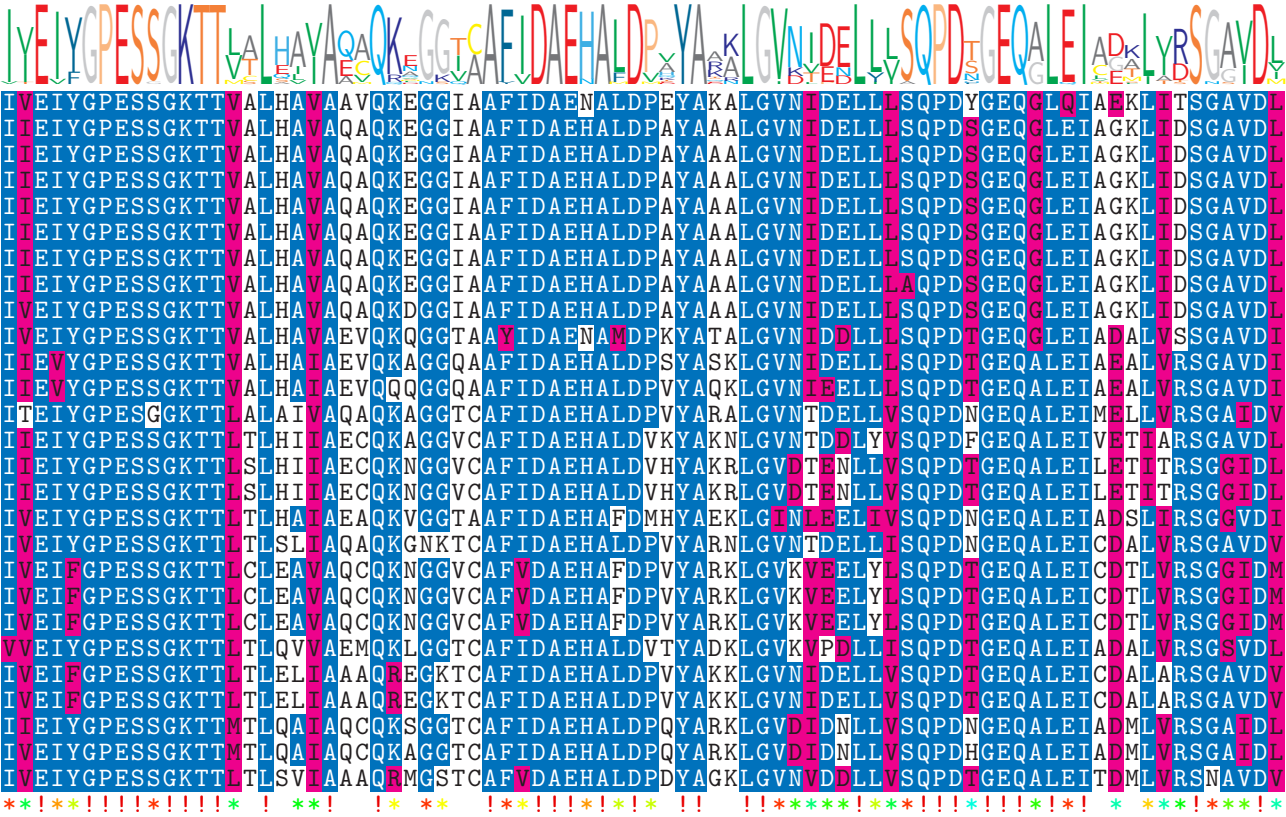


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NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VSSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VSSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VSSGSLALD	I	ALGSGGY	PKGR	73
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NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VSSGSLALD	I	ALGSGGY	PKGR	73
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQ	VSSGSLALD	I	ALGAGGY	PKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQV	STVSSGSLALD	E	ALGVGGY	PRGR	60
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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLG EK	.TDTR	ISTVPSGSLALD	I	ALGIGGY	PRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDV	QVVSTGSLSLD	I	ALGVGGI	PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLDAALKS LDKT	FGKGTILRLGDK	.EVEQ	IDSIGTGSVGLDL	I	ALGIGGV	PKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEK	IDSISTGSLGLDL	I	ALGIGGV	PKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEK	IDAISTGSLGLDL	I	ALGIGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDH	NIEVIPSGSLGLDL	I	ALGVGGY	PKGR	68
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMD	VETISTGSLSLD	I	ALGAGGL	PMGR	59
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSALQAALSQIEKQ	FGKNTVMRLGDN	.TVQ	AVEAVSTGSLTLD	I	ALGIGGL	PKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQA	IPSISTGSLGLD	I	ALGIGGL	PKGR	59
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 128223 PSTEL RS15385 WP 038696604.1
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consensus

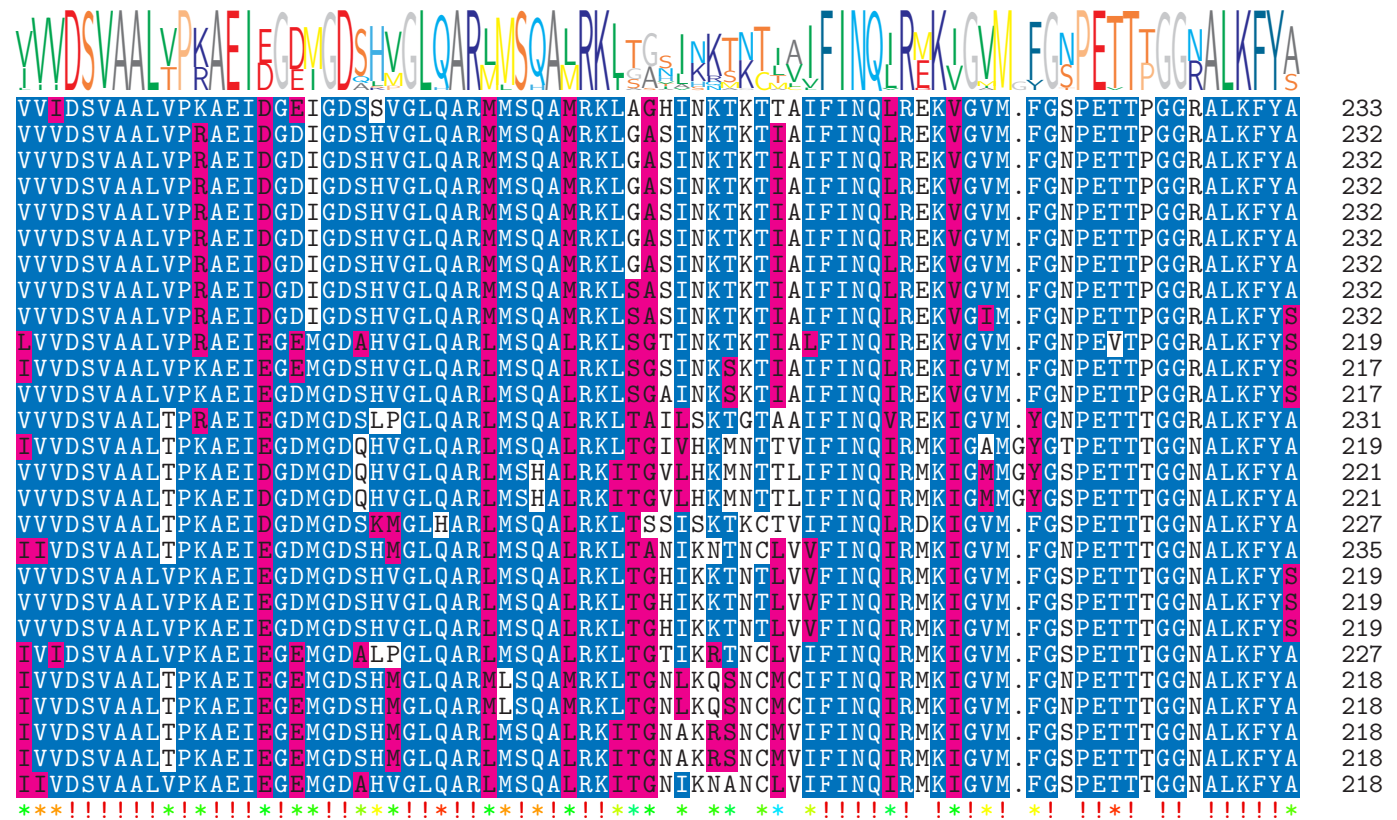


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consensus

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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVVEIMYGEGISKTGEL	LKIASDLDI	IKKAGAWYSYK	311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVVEIMYGEGISKTGEL	LKIASDLDI	IKKAGAWYSYK	311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVVEIMYGEGISKTGEL	LKIASDLDI	IKKAGAWYSYK	311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEA	AFVEIMYGEGISKTGEL	LKIASDLDI	IKKAGAWYSYK	311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEA	AFVEIMYGEGISKTGEL	LKIASDLDI	IKKAGAWYSYK	311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKEA	AEVEIMYGEGISRTGEL	VKIASDLDI	IQKAGAWFSYN	311				
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFRE	AEFDIMFGEGISKEGEI	IDYGVKLDI	VDKSGAWLSYQ	296				
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGGFNREGEL	IDLGVKHKMVEK	SGAWYSYN	293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGGFNREGEL	IDLGVKHKMVEK	SGAWYSYN	293				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFKEA	IFQILYGKGTNQLGEL	VDLAVQQDI	VQKAGAWYSYQ	293				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFREA	IFQILYGKGVNQLGEL	VDLAVQQNI	VQKAGAWYSYQ	293				
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	VGSETRNVKVVKNKVAPPFRQA	EFQILYGKGIYRNGEIID	LGVQQGLVEK	SGAWAYK	293				
consensus	***!***!*	*	**	*****!***!!*!!*!!*	*	*****!*!***	*****	*	***	! !*****!

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NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE	...	PKKEEA..VNEEVPLDLGDELEI	384			
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE	...	PKKEEA..VNEEVPLDLGDELEI	384			
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE	...	PKKEEA..VNEEVPLDLGDELEI	384			
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NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK	...	ETDEK	...	ADKNLVLELDDTIEL	381		
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NTDB id 128223 PSTEL RS15385 WP 038696604.1	GERLGQGR	ENAKQFLKENQNLALT	IENKIREASN	ISTLVAAPTESELQAEKEEEQ	...	ALLEIE	...		353		
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKDIMLMIQE	QIREHYGL	DNNGVVQQ	...	QAEETQ	...	EELEFEE	348		
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGG	KEKTIAYIAERP	EMEQEIRDRVMAAIR	AGNAGEAPALAPAPAAP	EAA	...	EA	...	363		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHI	...	TEGTQDE	TD	...	...	GER	PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAELAREIENKVREHLGV	TPMG	...	AV	TLAE	EVE	...	ED	352	
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consensus	***!!!	*****	**	*****	*****	**	**			**	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
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NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
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NTDB id 1165 A1552VC RS01565 WP 000344154.1		354
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NTDB id 1074 ABD1 RS10195 WP 000344167.1		349
NTDB id 1022 ACIAD RS06390 WP 004925639.1		349
NTDB id 1205 PSJM300 05545 AFN77183.1		347

consensus

 non conserved
 similar
 ≥ 50% conserved