

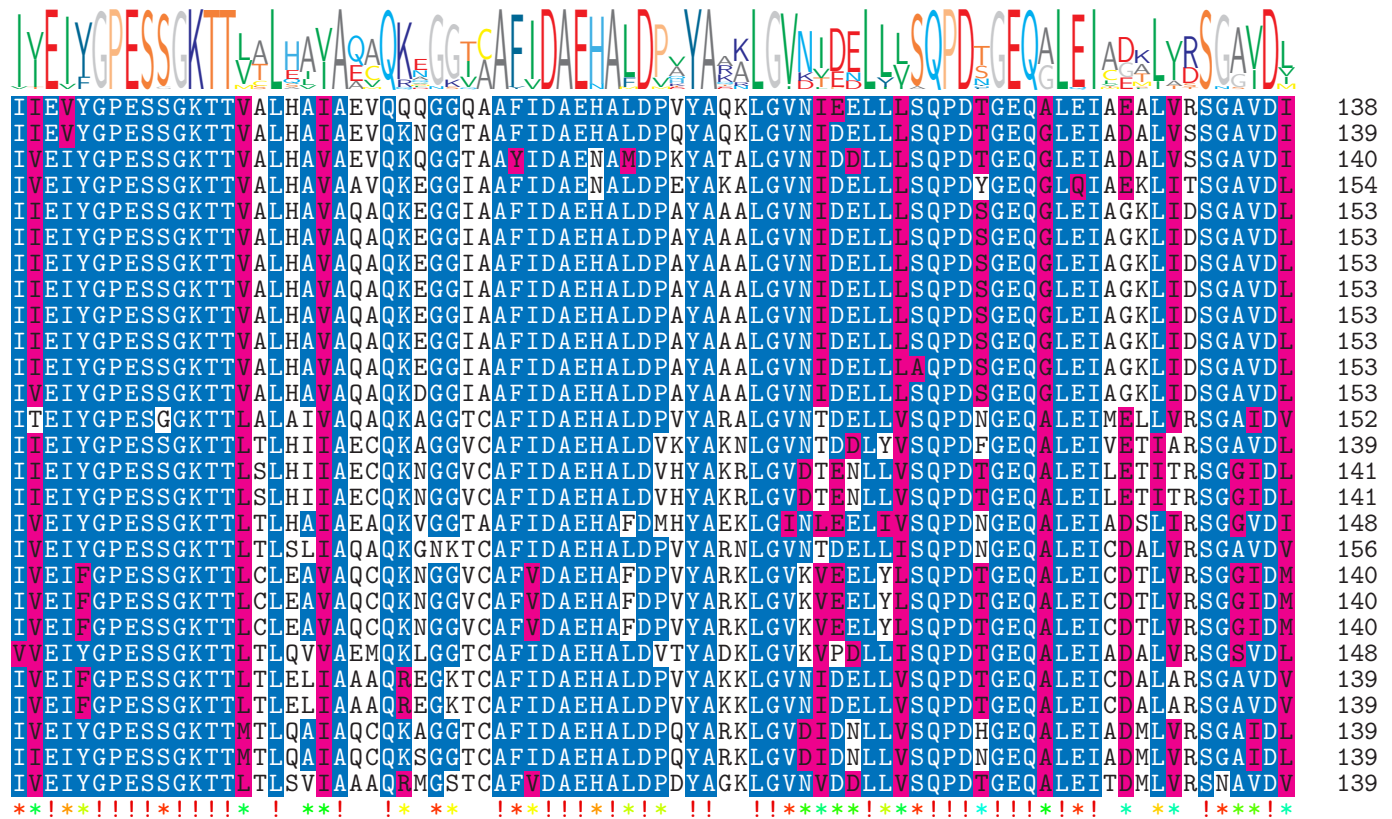
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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQ	FGKGSIMKLGEK	.TDTRI	ISTV	SGSLALD	TALG	IGGYPRGR	58	
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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73	
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....	KLKKNEEITKKFG	DERRKALDD	ALKN	IEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	TALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....	RIKKTEEITKKFG	DERKALDD	ALKN	IEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	TALGAGGYPKGR	73	
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NTDB id 1245 Cj1673c YP 002345041.1	MD	DNKRKSLDAALKS	LDKT	FGKGTILRLGDK	.EVEQ	IDSIG	TGSVGLDL	TALG	IGGVPKGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAID	EDKQKAISLA	IKQ	IDKV	FGKGALVRLGDK	.QVEK	IDAIST	TGSLGLDL	TALG	IGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKAISLA	IKQ	IDKV	FGKGALVRLGDK	.QVEK	IDAIST	TGSLGLDL	TALG	IGGVPKGR	61
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..	VKQVEPEQ	KKQALEAALA	QIEKQ	FGKGSIMKL	QGT.EQLD	IESV	TGSLGLDL	TALG	IGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	QIEKS	SFGKGAIMKMDGS	QREENLEVIST	TGSLGLDL	TALGV	GGLPRGR		60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	QIEKS	SFGKGAIMKMDGS	QREENLEVIST	TGSLGLDL	TALGV	GGLPRGR		60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALA	QIEKS	SFGKGAIMKMDGS	QREENLEVIST	TGSLGLDL	TALGV	GGLPRGR		60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K..KAASMSAEK	QKALAAALA	QIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	VALGV	GGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	TALG	AGGLPMGR		59	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	TALG	IGGLPKGR		59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	TALG	IGGLPKGR		59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALGQ	IEKQ	FGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	TALG	IGGLPKGR		59	
consensus	***	***	*	***	***	*****	*	*****	***	***	

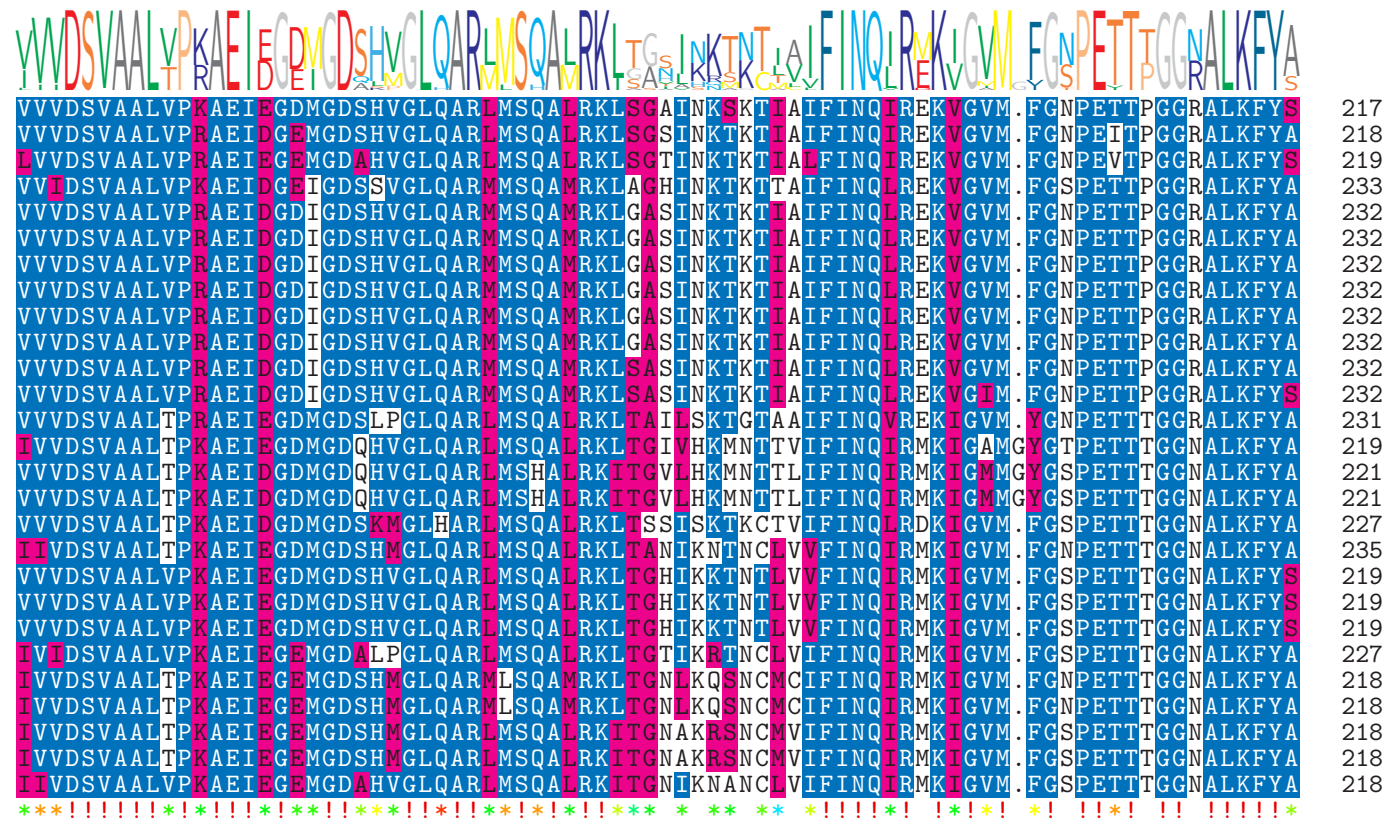
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NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
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NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIIKNSGWSYSG	294
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGITKKSGAWFAYN	312
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN	311
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQNEEPIGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVKNKVAPPFKSAEFDIMYGGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDIEIGSETKVVKNKVAPPFREVQFDIMYGGEGISRMNELLILAEANGFIKKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEEVLGNETRVRKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDDIINKSGAWYSYN	294
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NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGDEVVGNETKVVKNKVAPPFREAIFFDILYGAGVSREGEIIDLGVKAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKNKMAPPFREAIFFQILYGKGVNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKNKMAPPFREAIFFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVKNKVAPPFRQAEFFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	***!***!* * ** *****!*****!*****! * * *****!*!***** ***** ** ***** ! !*****!	

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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.....EFEE.....	348
NTDB id 154970 AMR85 RS06640 WP 002287328.1	EDRIGQGRENAKIYMANHPEMMAEVSALVRAAYGIGEEVAVPEDEKG.QEEL.....PLVEE.....	349
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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELELED.....	387
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NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
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NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
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NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADAITKAIQNSMGIEGMI.....SGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKIKEISGSNEEI.....MPLPDE..PLEEM.....E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKIKEISGSNEEI.....MPLPDE..PLEEM.....E.....	347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSNDES.....DVEEFSEEL...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLVKENPEIAKTLDDKKLREMLLNPNEM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLVKENPEIAKTLDDKKLREMLLNPNEM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGASD....QTAA.HDETEEEP.....DLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGASD....GAVQ.I.EDEEEP.....DLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLVLENPEIGQIEEQIRAKLLVTSAN....TKATPVAEDLADA.....DI.....	347
consensus	***!!!***** ** * *** ***** ** **	

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NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 154970 AMR85 RS06640 WP 002287328.1	...	349	
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NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
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NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved