

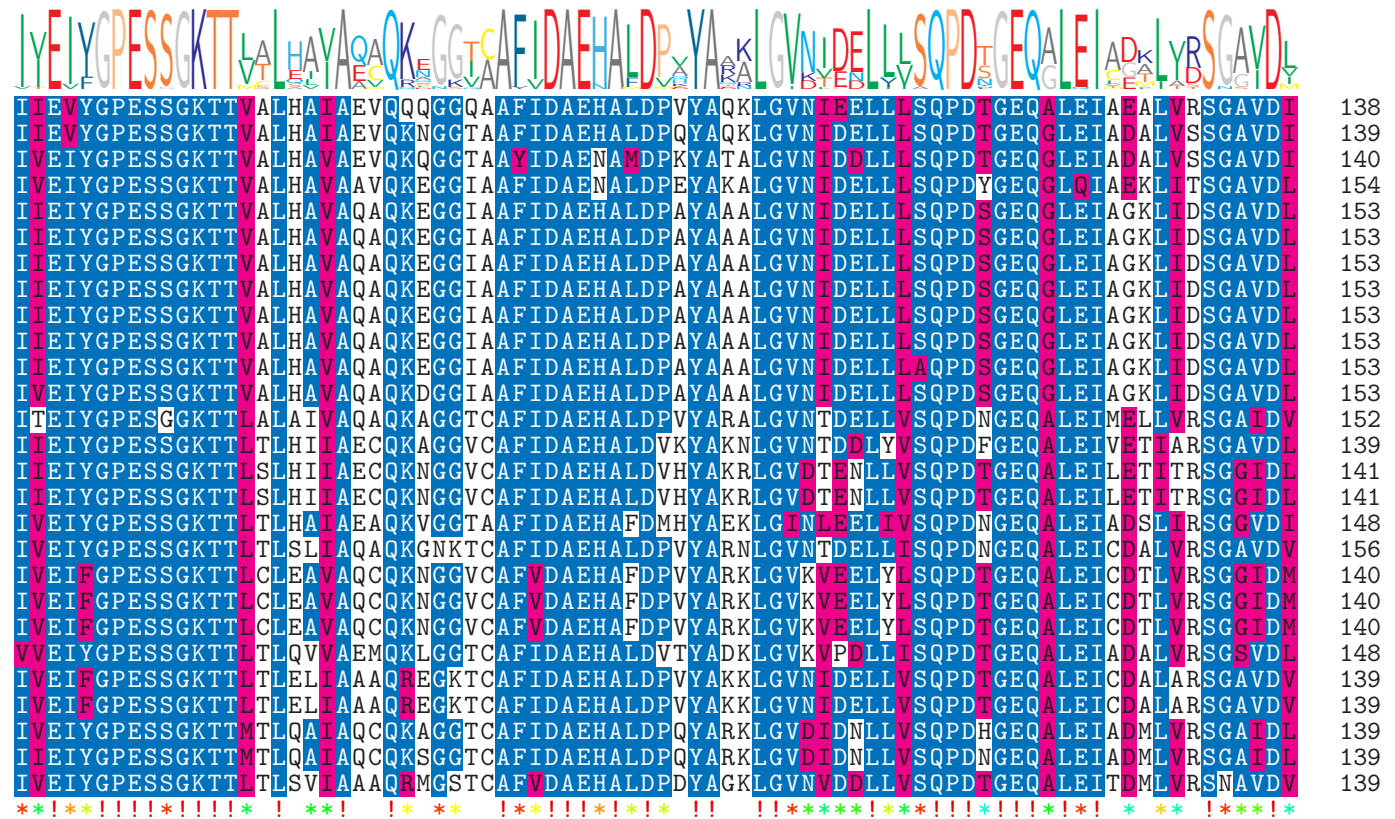
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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQ	FGKGSIMKLGEK	.TDTR	ISTV	SGSLALD	TALG	IGGYPRGR	58		
NTDB id 219644 B4W80 RS12795 WP 002287328.1	MA	DDRKAALDAALKK	IEKS	YGKGSIMKLGEK	.IDQQ	ISTIP	SGSLALD	VALG	VGGYPRGR	59		
NTDB id 625 LCA RS02525 WP 011374196.1	MAK	DERQAALDAALKK	IEKN	FGKGSIMRMGEK	.VDTQ	VSTV	SSGSLALD	DEAL	GVGGYPRGR	60		
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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		
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NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	TALGSGGYPKGR	73		
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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	DERKKALDD	ALKN	IEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	TALGAGGYPKGR	73		
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NTDB id 1245 Cj1673c YP 002345041.1	MD	NKRKSLDAALKS	LDKT	FGKGTILRLGDK	.EVEQ	IDSIGT	GSVGLDL	LALGIGGV	PKGR	59		
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKATISLAIKQ	IDKVFGKGA	LVRLGDK	.QVEK	IDAI	STGSLGLDL	LALGIGGV	PKGR	61		
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..	VKQVEP	EQKKQALEAALA	Q	IEKQ	FGKGSIMKLQ	QT.EQLD	IESV	STGSLGLDL	LALGIGGL	PMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	EENLEVI	STGSLGLDL	LALGVGGL	PRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	EENLEVI	STGSLGLDL	LALGVGGL	PRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	EENLEVI	STGSLGLDL	LALGVGGL	PRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K..KAASMSA	EKQKALAAALA	Q	IEKQ	FGKGSIMKMG	DA.EVEPVQV	VSTGSLGLD	VALGVGGL	PRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLG	DN.RAMD	VETIST	TGSLSLD	TALGAGGL	PMGR	59		
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	NKSKALQAALSQ	IEKQ	FGKNTVMRLG	DN.TVQ	AVEAVST	TGSLTLD	TALGIGGL	PKGR	59		
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NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALGQ	IEKQ	FGKGAVMRMG	DH.DRQA	IPSIST	TGSLGLD	TALGIGGL	PKGR	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 RAOC 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
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

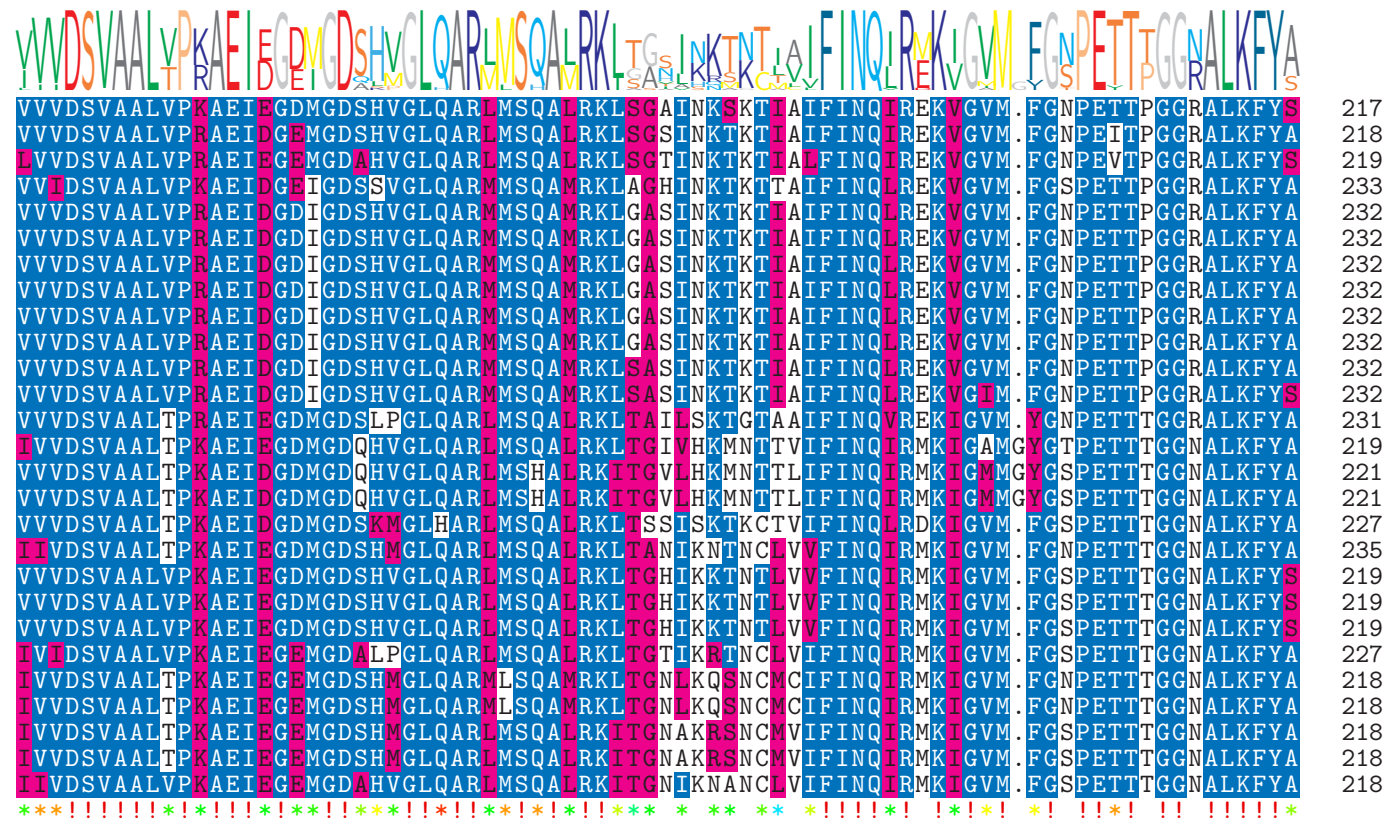
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consensus

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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.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIIKNSGWSYSYG	294
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGITKKSGAWFAYN	312
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN	311
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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.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGGEGISWEGELIDIGVKNDDIINKSGAWYSYN	294
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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.KEGDEIVGSETKVVKNKMAPPFREAIFFQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKNKMAPPFREAIFFQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	***!***!* * ** *****!*****!*****! * * *****!*!***** ***** ** ***** ! !*****!	

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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.....EFEE.....	348
NTDB id 219644 B4W80 RS12795 WP 002287328.1	EDRIGQGRENAKIYMANHPEMMAEVSALVRAAYGIGEEVAVPEDEKG.QEEL.....PLVEE.....	349
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTE.DEQI.....NILPDDSTEE..	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
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NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIE	381
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NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	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
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLVKENPEIAKTLDDKKLREMLLNPNENM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLVKENPEIAKTLDDKKLREMLLNPNENM....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	GSKIGQGGKANAAKYLVLENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADA.....DI.....	347
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NTDB id 219644 B4W80 RS12795 WP 002287328.1	...	349	
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NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

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