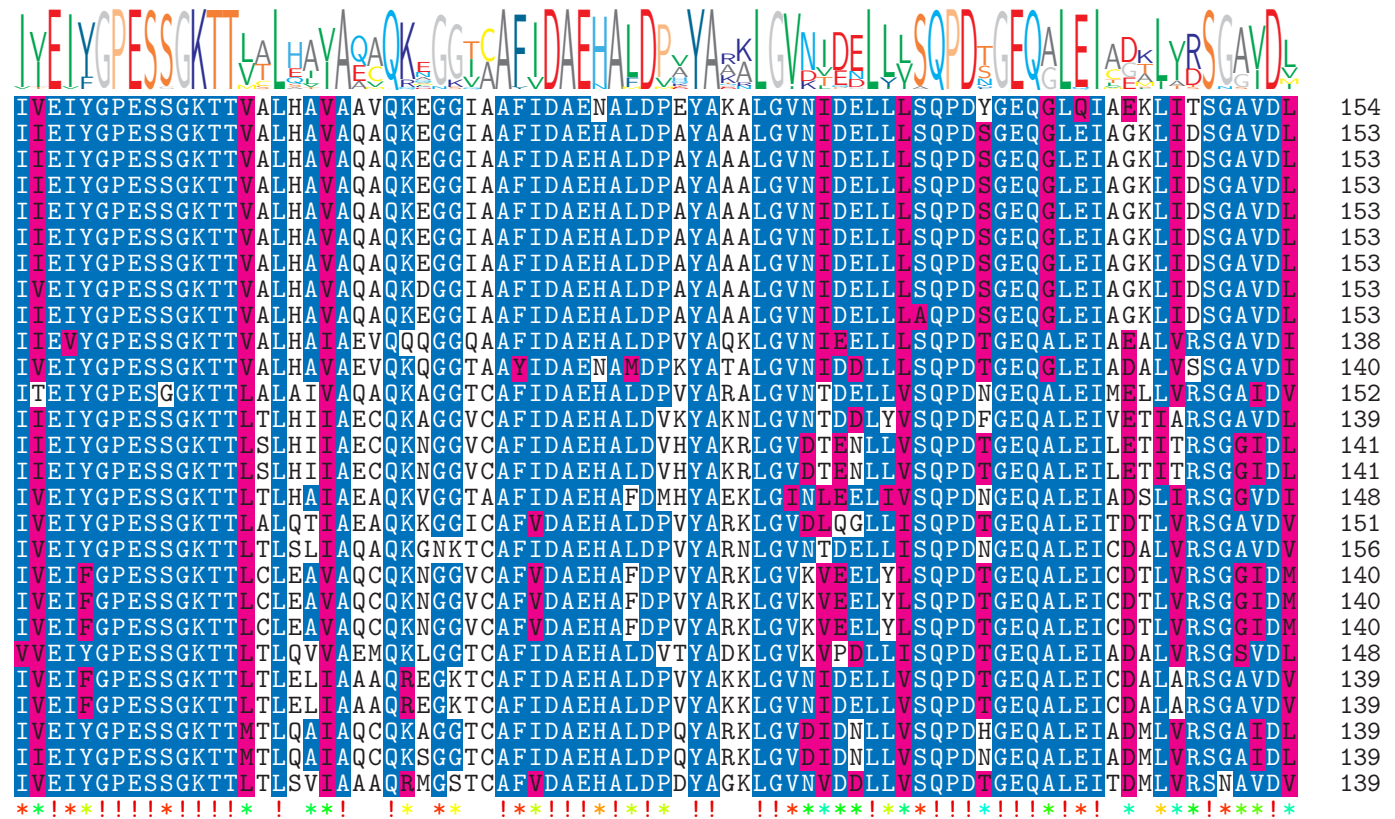


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NTDB	id	269	KZH43	RS08665	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	228	SPD	RS09265	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	194	SPR	RS08825	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	159	SP	RS09750	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	499	SM12261	RS08315	WP	078228268.1	MAKKPKKLDEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	MAKKPKKLDEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALGS	GGY	PKGR	73			
NTDB	id	408	SMU	RS09530	WP	002262392.1	MAKRIKKTEEITKKFGD	ERKKALDD	ALKN	IEKDFGKGA	VMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALG	AGGY	PKGR	73			
NTDB	id	453	Spy49	1753c	ACI	62003.1	MAKKLKKNEEITKKFGD	ERRKALDD	ALKN	IEKDFGKGA	VMRLGER	.AEQK	VQVM	MSSGSL	ALD	I	ALG	AGGY	PKGR	73			
NTDB	id	115	BSU	16940	NP	389576.2	MSDRQAALDMALKQIEKQFGKGS	IMKLGEK	.TDTR	ISTVPSGSL	ALD	I	ALG	IGGY	PRGR	58							
NTDB	id	625	LCA	RS02525	WP	011374196.1	MAKD	ERQAALDA	ALKK	IEKNFGKGS	SIMRMGEK	.VDTQ	VSTV	SSSGSL	ALDE	I	ALG	VGGY	PRGR	60			
NTDB	id	1313	DR	RS12030	WP	010888966.1	MSKDAT	.KEISAPTDAK	ERSKAT	ET	AMSQIEKA	FGKGS	SIMKLGA	E	.SKLD	VQVV	STGSL	SLDL	I	ALG	VGGI	PRGR	72
NTDB	id	1245	Cj1673c	YP	002345041.1	MDDN	KRKSLDA	ALKS	LDKT	FGKGT	ILRLGDK	.EVEQ	IDS	IGTGS	VGLD	I	ALG	IGGV	PKGR	59			
NTDB	id	1214	NCTC11637	00359	SQJ	03206.1	M..AIDE	DKQKAT	ISLAI	KQID	KVFGKGA	LVRLGDK	.QVEK	IDA	ISTGSL	GGLD	I	ALG	IGGV	PKGR	61		
NTDB	id	1211	C694	RS00795	WP	000963128.1	M..AIDE	DKQKAT	ISLAI	KQID	KVFGKGA	LVRLGDK	.QVEK	IDS	ISTGSL	GGLD	I	ALG	IGGV	PKGR	61		
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	MA...K.TETT	.SPND	DKKKALAA	AVLEK	LDKT	YKGK	TVMKLGD	GTVDHN	.IEV	IPSGSL	GGLD	I	ALG	VGGY	PKGR	68	
NTDB	id	421501	FY154	RS07680	WP	020012874.1	MAQNSL	.RLVE..DKSV	DKSKALEA	ALSQ	TIERS	FGKGS	SIMKLGS	NENNV	VET	VSTGSL	SLD	I	ALG	I	GGL	PKGR	71
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	MAENKKSSKNNT	.VVKQ..VEPEQ	KKQALEA	ALAQ	IEKQ	FGKGS	SIMKLGT	.EQLD	IESV	STGSL	GGLD	I	ALG	I	GGL	PMGR	76
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	MSD	DKSKALAA	ALAQ	IEKS	FGKGA	IMKMDGS	QQEEN	LEV	ISTGSL	GGLD	I	ALG	VGGL	PRGR	60		
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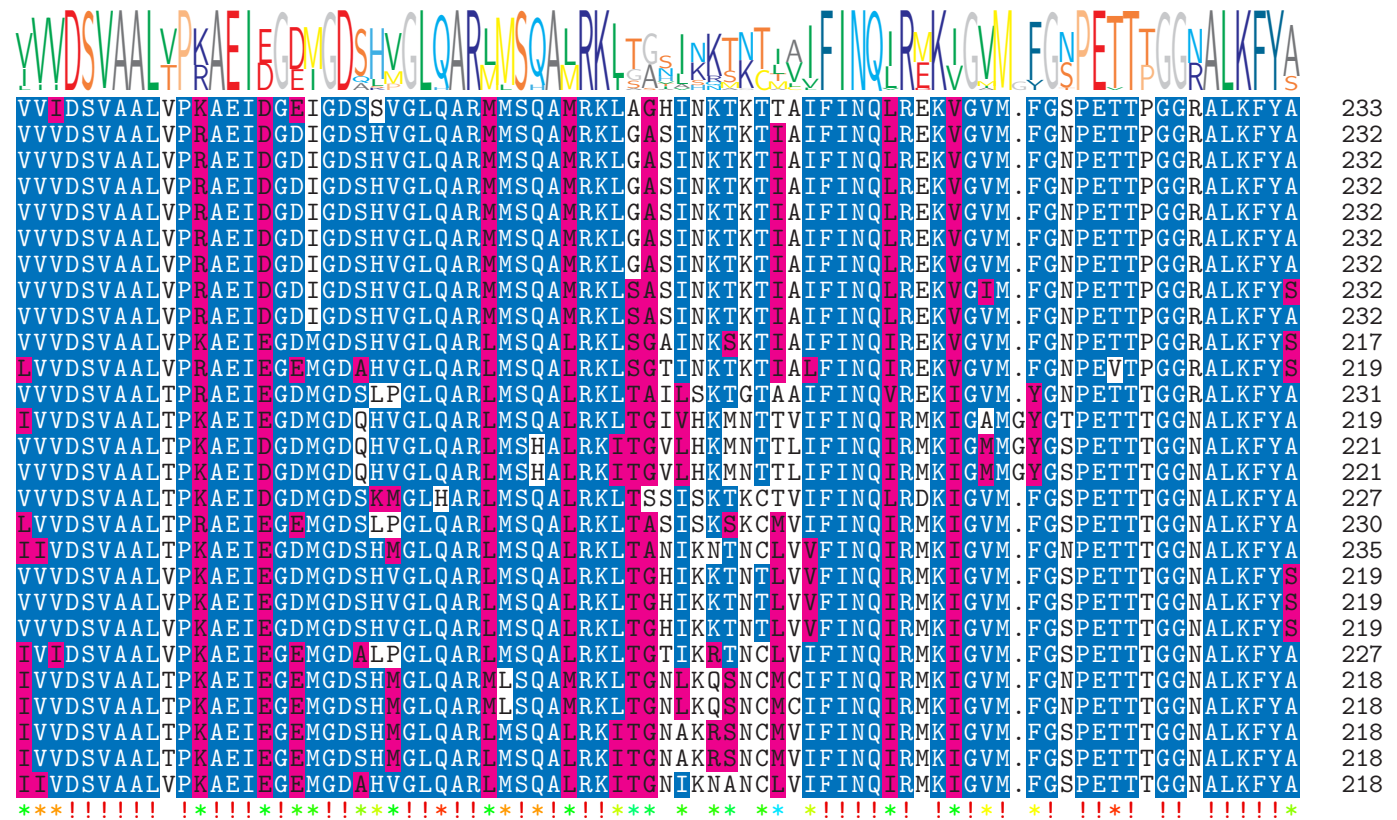
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NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 421501 FY154 RS07680 WP 020012874.1
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
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NTDB id 1142 GTF74 RS11550 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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NTDB id 600 KW2 RS01765 WP 011675413.1
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consensus



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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPFKE	AVVEIM	YGEGIS	KTGELL	KIASDL	DIKKAG	AWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPFKE	AVVEIM	YGEGIS	KTGELL	KIASDL	DIKKAG	AWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPFKE	AVVEIM	YGEGIS	KTGELL	KIASDL	DIKKAG	AWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPFKE	AVVEIM	YGEGIS	KTGELL	KIASDL	DIKKAG	AWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	VAPPFKE	AFVEIM	YGEGIS	KTGELL	KIASDL	DIKKAG	AWYSYK	311
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NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKV	VAPPFKE	AFVEIT	YGEGIS	RTELVK	IASDLG	IIQKAG	AWYSYN	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TTQIKGTG	.DQKDSS	IGKETK	IKVVKNKV	VAPPFKE	AEVEIM	YGEGIS	RTELVK	IASDL	DIQKAG	AWFSYN	311
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	ETIKNGT	DM	IGNRAR	IKVVKNKV	VAPPFK	VAEVDI	MYGQGI	SRTGEL	VDMAVE	KDIINK	SGSWSYG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRK	IGQ....PTK	VGNDAV	ANTVKI	KTVKNK	VAAPFKE	VELALV	YGKGF	QDLSDL	VGLAAD	MDIINK	KAGSFYSY	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....L.KQ	NKEEPI	GNRVKV	VVVKNKV	VAPPFR	QAEFDV	MFGEGL	SREGEL	IDYGVK	LDIVDK	SGAWFSYK	294
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRS	LSDTGKIKDK	SGEV	IGNRTK	VVVKNKV	VAPPFK	SAEFDI	MYGEGV	SKVGEI	LDVATD	LDIQKSG	SWFSYQ	307
NTDB id 421501 FY154 RS07680 WP 020012874.1	SVRLDIRR	IGA....V.KER	EEV	VGNQTR	VVVKNK	MAPPFK	QVEFDI	MYGEGV	SKTGEL	VDLGVK	AGIVEK	SGAWFSYN	305
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRR	RCGV....V.KD	GDEI	IGSETK	VVVKNKV	VAPPFR	REVQFD	IMYGE	GISMNEL	LILAE	ANGFI	KKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I.KKG	EEV	LGNETR	VKVIK	NKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INKSGAWSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I.KKG	EEV	LGNETR	VKVIK	NKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INKSGAWSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR	TGS....I.KKG	EEV	LGNETR	VKVIK	NKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INKSGAWSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRR	IGS....I.KKG	DEV	VGNETK	VVVKNKV	VAPPFR	EAIFDI	DILYG	AGVSRE	GEITDL	GVKAK	VVEKSGAWSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRR	TGA....I.KEG	EEV	VGNETRI	KVVKNK	IAAPFKE	ANTQIM	YGQGF	NREGEL	IDLGVK	HKMVEK	SGAWSYN	293
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR	IGQ....V.KEG	DEI	IGSETK	VVVKNK	MAPPFK	EAIFQI	LYGKGT	NQLGEL	VDLAVQ	QDIVQK	AGAWYSYQ	293
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consensus	*!!**!*~			*	**	*****!*****!!*!!*!!*~	*	*****!!*!!*!!*!!*!!*!!*~	*****~	*****~	*****~	*****~	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASK.TKAKAKKEEKAVETEEIELELED....	387	
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	DDIDHKVVRVQYGL	IEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIEL		381	
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE.....E.....TDDLALDLNGIEI		376	
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQEEL..EFE.E.....		348	
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTEDE.QI..NILPDDST.....EE.....		355	
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAIYIAERPE	MEQEIRDRVMAA	IRAGNAGEAPALAPAPAAPEAAEA.....		363	
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NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKAL	ADEITLKI	KESIGSNE....EIMPLPDEP..LEEME.....		347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDNPE	LAELEAKIREKLQ	AK.....		343	
NTDB id 421501 FY154 RS07680 WP 020012874.1	SQRLGGG	RENAKTFLRDNPE	TANEIELALRQNA	GLIA....DRFLQNGGPDAGEGDDGSDEG.....		363	
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NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEM....HITEGTQDET...DGER.....PEE.....		348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVREHLG	VTP....MGAVTLA..EE...VEED.....		352	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	NPE....NMQLIAETSS...AADDVEFGAVPEEF.....		354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEENNP	QISTEIEAVIREQLL	TKA....SDQTAA.HDE...TEEEPDLL..ES.....		349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNP	QIAEEIERNIREQLL	TTG....TNGAVQ.I.E...DEEPPDLL..LES.....		349	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLEENPEI	IGQIEEQIRAKLLV	TS....ANTKATPVAE...DLADADI.....		347	
consensus	***!!!	*****	**	*****	*****	**	**

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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 115 BSU 16940 NP 389576.2		348
NTDB id 625 LCA RS02525 WP 011374196.1		355
NTDB id 1313 DR RS12030 WP 010888966.1		363
NTDB id 1245 Cj1673c YP 002345041.1		343
NTDB id 1214 NCTC11637 00359 SQJ03206.1		347
NTDB id 1211 C694 RS00795 WP 000963128.1		347
NTDB id 1334 RAOC RS04870 WP 004918236.1		343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1		372
NTDB id 1130 NGFG RS03960 WP 003688695.1		348
NTDB id 1124 NGFG RS03960 WP 003688695.1		348
NTDB id 1123 OK783 RS03845 WP 003688695.1		348
NTDB id 1427 RS RS02760 WP 011000510.1		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1		354
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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

 non conserved
 similar
 ≥ 50% conserved