

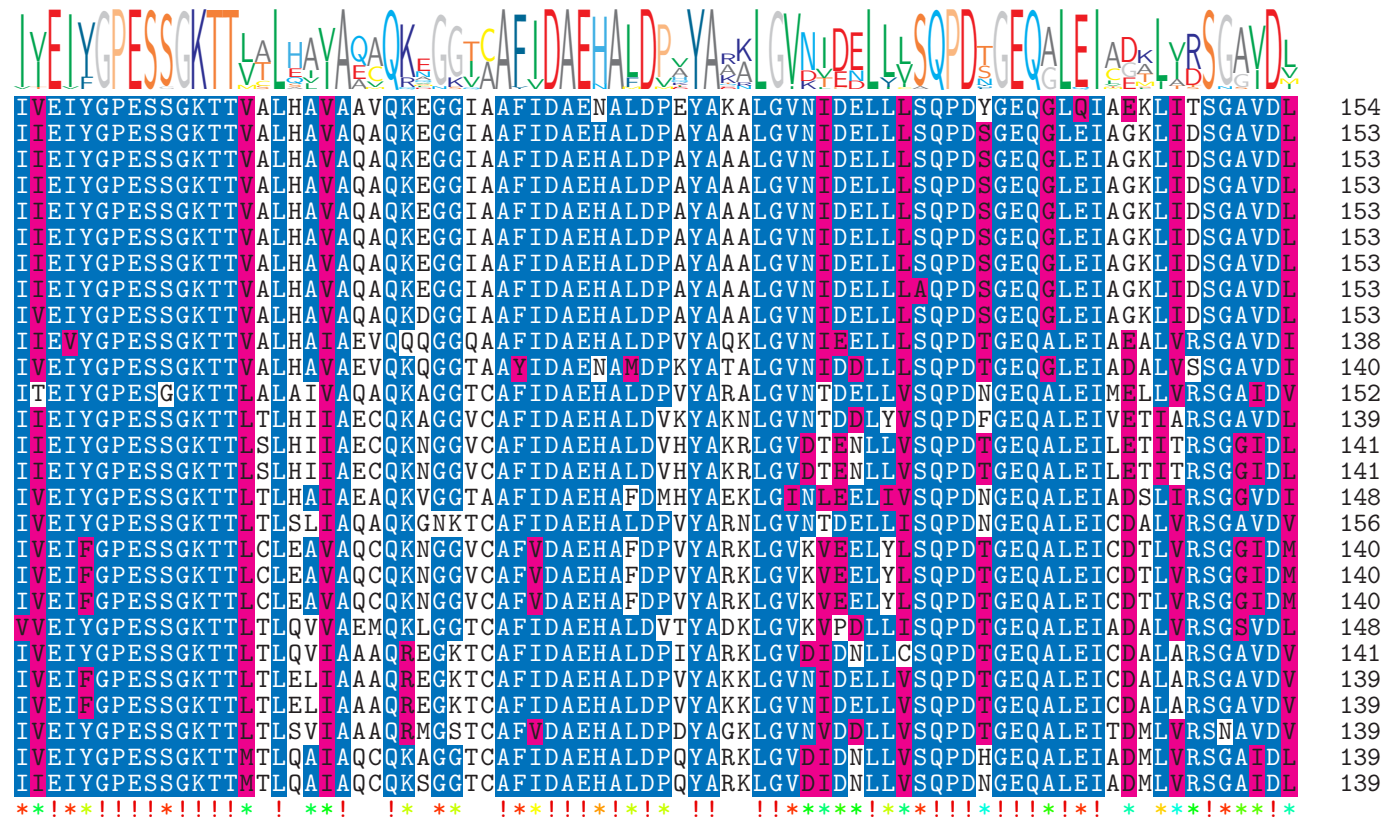
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERD	KALAD	ALAL	IEKD	FGKGS	SLMRLGE	A	ANQK	VSV	VSSGSL	ALD	I	ALGA	GGYP	PKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERR	KALDD	ALKN	IEKD	FGKGA	VMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGA	GGYP	PKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERK	KALDD	ALKN	IEKD	FGKGA	VMRLGER	A	AEQK	VQV	MSSGSL	ALD	I	ALGA	GGYP	PKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALK	QIEK	QFGKGS	SIMKLGE	K	TDTR	I	ISTV	PSGSL	ALD	T	ALGI	GGY	PRGR			58		
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDA	ALKK	IEKN	FGKGS	SIMRMGE	K	VDTQ	V	STVSSGSL	AL	DE	ALGV	GGY	PRGR			60		
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERS	KA	IET	AMS	QIEK	A	FGKGS	SIMKLGE	A	SKLD	V	QVV	STGSL	SLDL	ALGV	GGI	PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDA	ALKS	LDKT	FGKGT	ILRLG	DK	EVEQ	I	IDSIG	TG	SVGL	DL	ALGI	GGV	PKGR			59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAISLA	IKQ	IDKV	FGKG	ALVRLG	DK	QVEK	I	DAISTG	SL	GLDL	ALGI	GGV	PKGR			61		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAISLA	IKQ	IDKV	FGKG	ALVRLG	DK	QVEK	I	DAISTG	SL	GLDL	ALGI	GGV	PKGR			61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSNP	DDKK	KALAAV	LEK	LDKT	YGKG	TVMKLG	D	GTVD	HNIE	EV	I	PSGSL	GLDL	ALGV	GGY	PKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEP	EQQK	QALEA	AAL	QIEK	QFGKGS	SIMKLGT	EQLD	I	ESV	STGSL	GLDL	ALGI	GGL	PMGR			76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALA	QIEK	SFGKGA	IMKMDGS	Q	Q	Q	EEN	LEV	I	STGSL	GLDL	ALGV	GGL	PRGR			60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALA	QIEK	SFGKGA	IMKMDGS	Q	Q	Q	EEN	LEV	I	STGSL	GLDL	ALGV	GGL	PRGR			60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALA	QIEK	SFGKGA	IMKMDGS	Q	Q	Q	EEN	LEV	I	STGSL	GLDL	ALGV	GGL	PRGR			60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMS	AEKQ	KALAA	AAL	QIEK	QFGKGS	SIMKMD	A	EVEP	V	VSTG	SL	GLD	VALGV	GGL	PRGR			68
NTDB id 134899 RG54 RS08590 WP 000963143.1	MAIDENKQKALAAAL	GQIEK	QFGKGS	SIMRLGE	D	RSMD	V	ET	I	STGSL	SLD	I	ALGA	GGL	PMGR			61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAAL	GQIEK	QFGKGS	SIMRLGD	N	RAMD	V	ET	I	STGSL	SLD	I	ALGA	GGL	PMGR			59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAAL	GQIEK	QFGKGS	SIMRLGD	N	RAMD	V	ET	I	STGSL	SLD	I	ALGA	GGL	PMGR			59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAAL	GQIEK	QFGKGA	VMRMGD	H	DRQA	I	PS	I	STGSL	GLD	I	ALGI	GGL	PKGR			59	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALS	QIEK	QFGKNT	VMRLGD	N	TVQA	A	VEAV	STG	SLT	L	D	I	ALGI	GGL	PKGR			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 ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

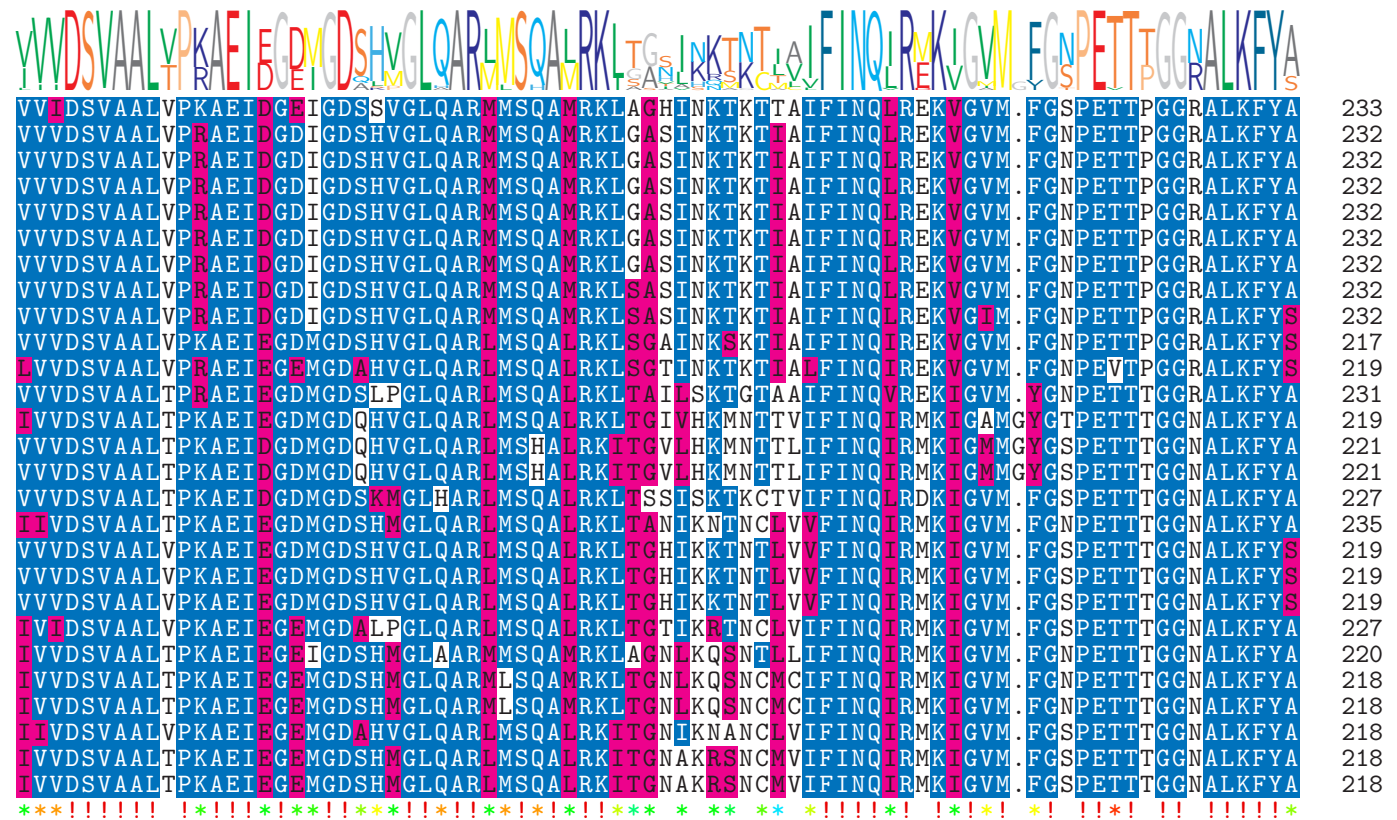
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311		
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDL	D	IIQKAGAWFSYN	311		
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIIMYEGEGISRTGELVKIASDL	G	IIQKAGAWYSYN	311		
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYEGEGISKEGEI	IDLGTEL	D	IVQKSGSWYSYE	292		
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGG	GISRTGELVDM	AVEKDI	INKSGSWYSYG	294		
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVM	FGEGLS	REGELIDY	GVKLD	DIVDKSGAWFSYK	294
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EA	FEFDIMFGEGISKEGEI	IDYGVKLD	DIVDKSGAWLSYQ	296
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFREVQFDIMYEGEGISRMNELL	ILAEANGFI	IKKSGAWFSYD		310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELID	IGVKN	DIINKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELID	IGVKN	DIINKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELID	IGVKN	DIINKSGAWYSYN	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGE	DEVVGNETKVVKNKVAPPFR	EA	IFDILYGA	GVSR	EGEIIDLGVEAKVVEKSGAWYSYN	302
NTDB id 134899 RG54 RS08590 WP 000963143.1	SVRLDIRRIGA....V.KEGENV	VGSETRVKVVKNKIAAPFKQAEFQ	ILYGE	GINFY	GELVDLGVKEKLLIEKAGAWYSYK	295	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVLGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELID	LGVKHKMVEKSGAWYSYN	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVLGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELID	LGVKHKMVEKSGAWYSYN	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKVAPPFRQAEFQ	ILYGKGIYRNGE	I	DLGVQQGLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFR	EA	IFQILYGKGVNQLGELVD	LAVQQNIVQKAGAWYSYQ	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFK	EA	IFQILYGKGTNQLGELVD	LAVQQDIVQKAGAWYSYQ	293	
consensus	*!!**!* *	*	**	*****!*****!*****!*	*	*****!***** ***** *	*** ! !*****!

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEE	EKAVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	IDGEEAAES....	KKDE....VAQVDS	.VNEEVTLDLGDELEIE		381
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NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSSKEK	ETDEK	.ADKNLVLELDDTIELE		382
NTDB id 115 BSU 16940 NP 389576.2	EEERLGGG	RENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQEEL	EFEE.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	RENAKNYLADHEDVE	DEVRLKVRVAAAYG	ISDVPEEDLPTTEDE	.QI.NILPDDST	EE.....		355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIAIYIAERPEME	QEIRDRVMAAIRAGN	AGEAPALAPAPAAPEAA	EA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEIA	DEITKAIQNSMCI	EGM.....ISGSEDDEG	EE			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEE....IMPLPDEPL	EEME			347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEE....IMPLPDEPL	EEME			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDNPEL	AEELEAKIREKLQAK					343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGS	KNNAVKWLKENPEI	ADKLEQIRNTLAS	NPN....SVLKATASDSN	...DES	DVEEFSEEEL		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDAIDAKIRALNG	VEMH....ITEG....T	...QDET	DGERPEE		348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDAIDAKIRALNG	VEMH....ITEG....T	...QDET	DGERPEE		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDAIDAKIRALNG	VEMH....ITEG....T	...QDET	DGERPEE		348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGS	RDNCRFLRENAEL	AREIENKVRHLGV	TPM....GAVTLAEE	.VE...ED			352
NTDB id 134899 RG54 RS08590 WP 000963143.1	GEKIGQGS	KANATAWLKDNPET	AKIEKKVRELLLSNP	N....STPDFSV...D	...DSEG	VAETNEDF		353
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGS	KANACKYLLKENPEI	AKTLDKKLREMLLN	PNEN....MQLIAETSSAA	...DDVE	FGAVPEEF		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGS	KANACKYLLKENPEI	AKTLDKKLREMLLN	PNEN....MQLIAETSSAA	...DDVE	FGAVPEEF		354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGS	KANAAYLEENPEIG	QIEQQIRAKLLV	TSA....NTKATPVAEDL	...ADADI			347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGS	KNNVIRYLEENPQI	STEIEAVIREQLL	TKAS....DQTAA	.HDETE...EEP	DLLES		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGS	KNNVIRYFEENNQIA	EEIERNIREQLL	TTGT....NGAVQ	.I.EDE...EEP	DLLES		349
consensus	***!!!	*****	**	*****	*****	**	*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387	
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NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
consensus			

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