

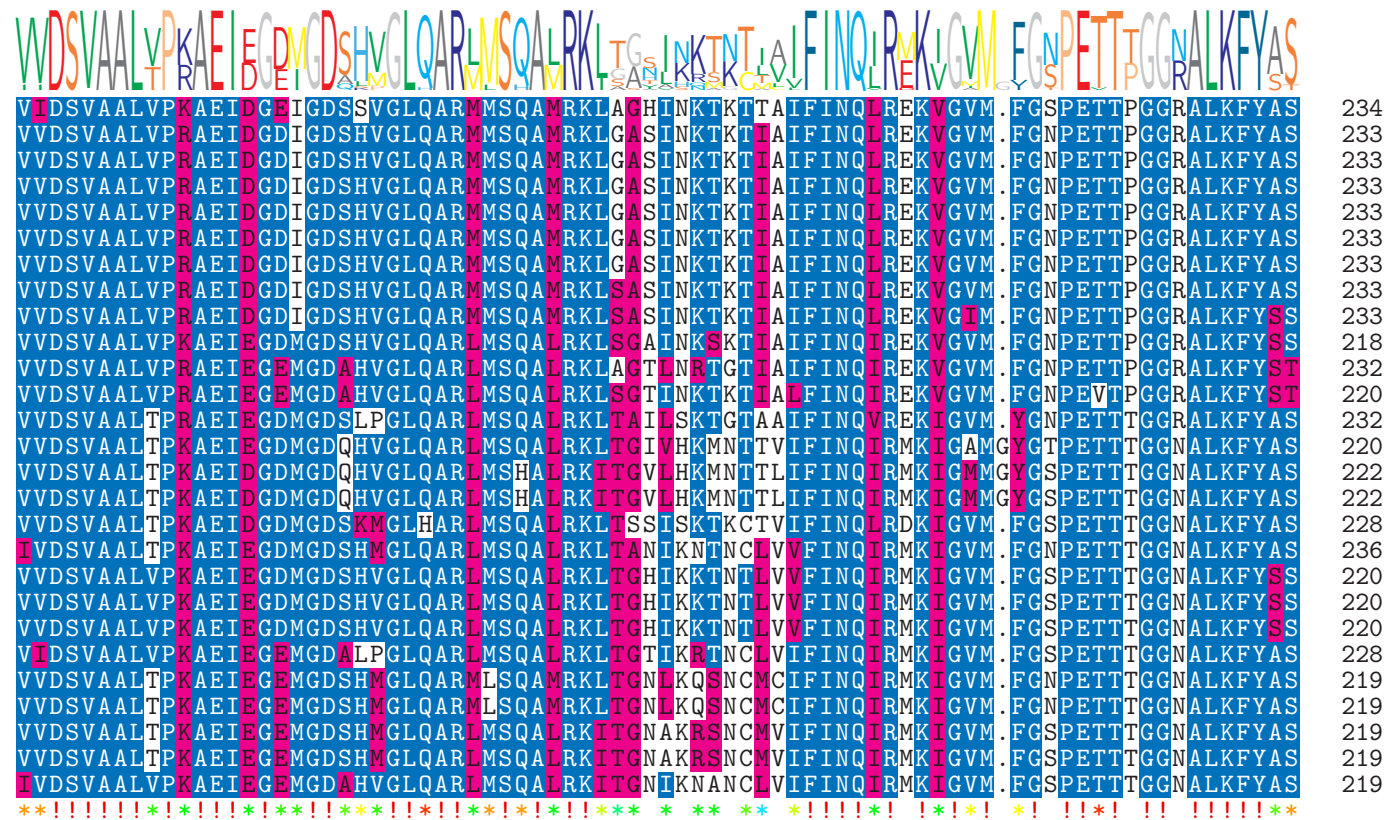
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVS	VSSGSLALDIALGAGGYPKGRI	75
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NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVM	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVM	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVM	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVM	MSSGSLALDIALGSGGYPKGRI	74
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NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGEREKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVM	MSSGSLALDIALGAGGYPKGRI	74
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGI	GGYPGRRI	59
NTDB id 22953 LEUM RS02855 WP 011679405.1	MVAK...KTTKKDDQA..KKDGRRAALDEALKKIEKNFGKGSVMTLGDN.ALTQIETIP	SGSVKIDVALGVGGYPKGRI	73
NTDB id 625 LCA RS02525 WP 011374196.1	M..AKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDE	ALGVGGYPGRRI	61
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVV	STGSLSLDLALGVGGIPGRRI	73
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGI	GGVPKGRI	60
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFHGKALVRLGDK.QVEKIDSISTGSLGLDL	ALGIGGVPKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFHGKALVRLGDK.QVEKIDAISTGSLGLDL	ALGIGGVPKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDDGTVDHNIIEV	IPSGSLGLDLALGVGGYPKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESV	STGSLGLDLALGIGGLPMGRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQUEENLEVISTGSLGLDL	ALGVGGLPRGRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQUEENLEVISTGSLGLDL	ALGVGGLPRGRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQUEENLEVISTGSLGLDL	ALGVGGLPRGRI	61
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVV	STGSLGLDVALGVGGLPRGRV	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDI	ALGIGGLPKGRI	60
consensus	*** ** *	***!!***** * ***!!*****!! !! !*!!*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESSGKTTVALHAVA	AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELL	LSQPDYGEQGLQIAEKLITSGAVDLV	155							
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154						
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154						
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154						
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154						
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NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154						
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDA	EAHALDPAYAAALGVNIDELL	LAQPDSEGGGLEIAGKLIDSGAVDLV	154						
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NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESSGKTTVALHAI	AEVQQQGGQAA	AFIDA	EAHALDPVYAQKLGVNIEELL	LSQPD	TGEQALEIAEALV	RS	GAVD	I	V	139
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NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTTLHI	IAECQKAGGVC	AFIDA	EAHALDVKYAKNLGVNTD	LLYSQPD	FGEQALEIVETI	ARS	GAVD	LI	140	
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTLSLHI	IAECQKNGGVC	AFIDA	EAHALDVHYAKRLGVD	TENLL	VSQPD	TGEQALEILETIT	RS	GGID	LV	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESSGKTTLSLHI	IAECQKNGGVC	AFIDA	EAHALDVHYAKRLGVD	TENLL	VSQPD	TGEQALEILETIT	RS	GGID	LV	142
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NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTLCLEA	VAQCQKNGGVC	AFVDA	EAHAFDPVYARKLGVKVEELY	LSQPD	TGEQALEICDTL	V	RS	GGID	141	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTTLTLEL	IAAAQREGKTC	AFIDA	EAHALDPVYAKKLGVNIDELL	VSQPD	TGEQALEICDAL	AR	SGAVD	VI	140	
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consensus	*!*****!*	*****!	*!*	!!*	*****!*	*****!	*****!	*****!	*****!	*****!	*****!

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 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 115 BSU 16940 NP 389576.2
NTDB id 22953 LEUM RS02855 WP 011679405.1
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
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NTDB id 1334 RA0C RS04870 WP 004918236.1
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consensus



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NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRG	TTQIKGTG	.DQKDS	IGKETK	IKVVKNKVAPPF	KVAEV	EIMY	GEGIS	RTGEL	VKIASD	LDIIQK	KAGAW	FSYNG	312											
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NTDB id 22953 LEUM RS02855 WP 011679405.1	VRLEVR	RSTQIKDGT	.D...V	TGNLT	KVKIV	KNKVAPPF	KVAEV	DIMY	G	HGISQT	GEILD	LAVDQ	DIIDKAGAW	AYEG	307										
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVR	RAETIKNGT	.D...M	IGNRA	RIKVV	KNKVAPPF	KVAEV	DIMY	G	GISRT	GELVD	MAVEK	DIINKSG	SWYSYGS	295										
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NTDB id 1245 Cj1673c YP 002345041.1	VRLDVR	KVAT...L.KQ	NEEP	IGNRV	KVKVV	KNKVAPPF	RQAEF	D	VMF	GEG	LS	REGE	LIDY	GVK	L	DIV	DKSG	AWFSYKD	295						
NTDB id 1211 C694 RS00795 WP 000963128.1	VRIDIR	RIAS...L.KQ	NEQH	IGNRA	KA	KVV	KNKVAPPF	REAEF	D	IMF	GEGIS	KEGE	IIDY	GVK	L	DIV	DKSG	AWLSYQD	297						
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRIDIR	RIAA...L.KQ	NEQH	IGNRA	KA	KVV	KNKVAPPF	REAEF	D	IMF	GEGIS	KEGE	IIDY	GVK	L	DIV	DKSG	AWLSYQD	297						
NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIR	RRSLSD	TGKIKDKS	GEVIGN	RTKV	KVV	KNKVAPPF	KS	AEF	D	IMY	GEGV	SKVGE	ILD	V	ATD	L	DIQKSG	SWFSYQD	308					
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIR	RCGV...V.KD	GDEI	IGSE	TKV	KVV	KNKVAPPF	REVQ	F	D	IMY	GEGIS	RMNELL	ILAE	ANG	F	IKKSG	AWFSYDG	311						
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NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIR	RTGS...I.KK	GEEV	LGNE	TRV	KVI	KNKVAPPF	RQAEF	D	ILY	GEGIS	WEGEL	ID	IGV	K	N	DI	INKSG	AWYSYNG	295					
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIR	RTGA...I.KE	GEEV	VGNE	TRI	KVV	KNKI	IAAP	F	KEANT	QIMY	G	GFN	REGE	LID	L	G	VKHK	MVEKSG	AWYSYNG	294				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIR	RTGA...I.KE	GEEV	VGNE	TRI	KVV	KNKI	IAAP	F	KEANT	QIMY	G	GFN	REGE	LID	L	G	VKHK	MVEKSG	AWYSYNG	294				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIR	RRIGQ...V.KE	GDEI	IGSE	TKV	KVV	KNKM	MAP	P	FEA	IFQ	ILY	GKGV	N	QLG	ELV	D	LA	VQ	Q	NIVQ	KAGAW	YSYQG	294	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIR	RRIGQ...V.KE	GDEI	IGSE	TKV	KVV	KNKM	MAP	P	FEA	IFQ	ILY	GKGV	N	QLG	ELV	D	LA	VQ	Q	NIVQ	KAGAW	YSYQG	294	
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIR	RTGA...V.KE	GDEV	VGSE	TRV	KVV	KNKVAPPF	RQAEF	Q	ILY	GKGI	YR	N	GE	IID	L	G	V	Q	Q	L	VEKSG	AWYAYKG	294	
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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQD	..VFDEIDHKVRAAHG	LLDDSEVAETEEETTAS	TKAKAKKEEKAVET	EIEIELELED	...	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPE	..IFDEIDKQVRSKFGL	IDGEEVSEQDTENKKDE	PKKEEA	..VNEEVPLDLGDEL	..	382			
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPE	..IFDEIDKQVRSKFGL	IDGEEVSEQDTENKKDE	PKKEEA	..VNEEVPLDLGDEL	..	382			
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPE	..IFDEIDKQVRSKFGL	IDGEEVSEQDTENKKDE	PKKEEA	..VNEEVPLDLGDEL	..	382			
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPE	..IFDEIDKQVRSKFGL	IDGEEVSEQDTENKKDE	PKKEEA	..VNEEVPLDLGDEL	..	382			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPE	..VFAEIDHQVRVQFGL	IDGEEAAE	SKKDE	VAQVDS	..VNEEVTLDLGDEL	..	378		
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPE	..IFDEIDHQVRVQFGL	IDGEEIAE	SKKDE	AAQVDS	..VNEEVTLDLGDEL	..	378		
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQ	..LFDEIDRKVRVKFGL	LEESEEEESAMAVASE	E	TDDLALDLNGI	..	374			
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPE	..IFDDIDHKVRVQYGL	IEEDNTEEKQSSKEK	ETDEK	..ADKNLVLELDDTI	..	379			
NTDB id 115 BSU 16940 NP 389576.2	ERLGQGR	ENAKQFLKENKDIML	..MIQEQIREHYGL	DNNGVVQQQA	EET	QEELEFEE	.....	348			
NTDB id 22953 LEUM RS02855 WP 011679405.1	ERIGQGR	EKAKDYLDPEHAALRQ	ELYVKVRQAYG	IDSNANGTAVSNTEAQA	EKS	DEQINLPDLTTTD	..	376			
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGR	ENAKNYLADHED	..VEDEVRLKVRAAYG	ISDVPEEDLP	TTE	DEQINILPDDSTEE	..	355			
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAIYIAERPE	..MEQEIRDRVMAAIR	AGNAGEAPALAPAPAAPEAAE	..A	.....	.....	363			
NTDB id 1245 Cj1673c YP 002345041.1	KKLGQGR	ENSKAFLKENPE	..IADEITKAIQNSMG	IEGMI	SGSEDD	..EGE	..E	.....	343		
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGQGR	ENAKALLKEDKA	..LADEITLKIKESIG	SNEEI	MPLPDE	..PLE	..EME	.....	347		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGQGR	ENAKALLKEDKA	..LADEITLKIKESIG	SNEEI	MPLPDE	..PLE	..EME	.....	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGQGR	DTVKELTKDNPE	..LAELEAKIREKLQAK	.....	.....	.....	.....	.....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQGG	KNNAVKWLKENPE	..IADKLEQEIRNTLAS	NPNS	VLKATASDSND	..ESDVVEEFSE	..EL	.....	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQGG	KDNVRVWLKENPE	..ISDEIDAKIRALNG	VEMHI	TEGTQDETGE	..R	PEE	.....	348		
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGG	KDNVRVWLKENPE	..ISDEIDAKIRALNG	VEMHI	TEGTQDETGE	..R	PEE	.....	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQGG	KDNVRVWLKENPE	..ISDEIDAKIRALNG	VEMHI	TEGTQDETGE	..R	PEE	.....	348		
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGR	DNCREFLRENAE	..LAREIENKVRHLGV	TPMG	AVTLA	..EEVEE	..D	.....	352		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQGG	KANACKYLYKENPE	..IAKTLDKKLREMLLN	NPENM	QLIAETSSAAD	..DVEFGAVPEE	..F	.....	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGG	KANACKYLYKENPE	..IAKTLDKKLREMLLN	NPENM	QLIAETSSAAD	..DVEFGAVPEE	..F	.....	354		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQGG	KNNVIRYLEENPQ	..ISTEIEAVIREQLLT	KASD	QTAA	..HDETEE	..EPDLL	..ES		349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQGG	KNNVIRYFEENNQ	..IAEEIERNIREQLLT	TGTN	GAVQ	..I	..EDEE	..EPDLL	..LES		349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQGG	KANAACYLEENPE	..IGQEIEQQIRAKLL	VTSAN	TKATPVAEDLA	..DADI				347	
consensus	**!	***	**	*	**	*	***	**	*	*	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	.EIEIEE..	388
NTDB id 228 SPD RS09265 WP 001085462.1	.EIEIEE..	388
NTDB id 194 SPR RS08825 WP 001085462.1	.EIEIEE..	388
NTDB id 159 SP RS09750 WP 001085462.1	.EIEIEE..	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.EIEIEE..	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	.EIEIEE..	384
NTDB id 453 Spy49 1753c ACI62003.1	.EIED....	378
NTDB id 408 SMU RS09530 WP 002262392.1	.ELED....	383
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 22953 LEUM RS02855 WP 011679405.1	DSLTDEPIV	385
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 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
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
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
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