

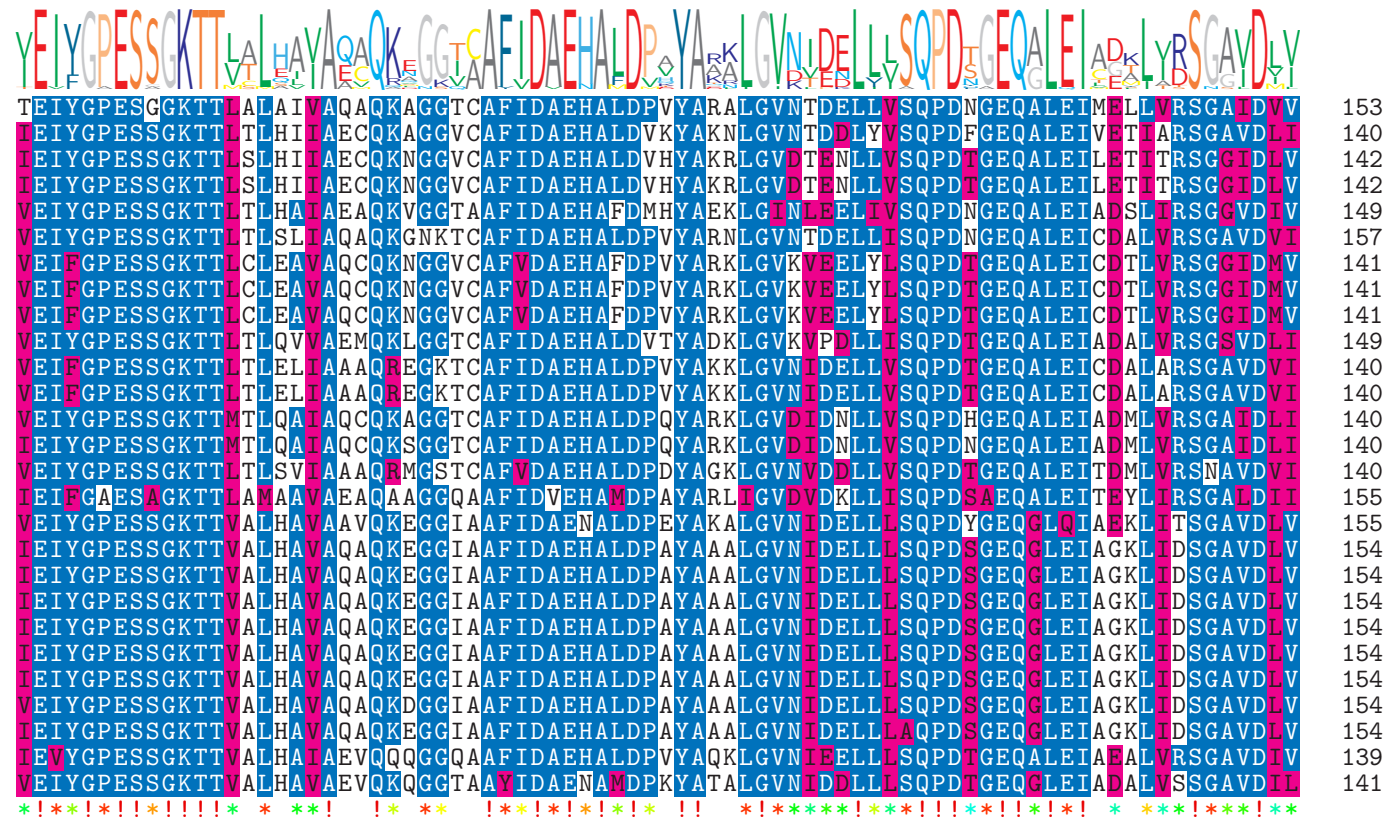
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NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAK	ERSKATETAMSQIEKAFGKG	SIMKLGAE	.SKLDVQVV	VSTGSLSLDL	ALGVGGIP	PRGRI	73					
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKS	LDAA	AKSLDK	TFGKG	TILRLGDK	.EVEQIDS	IGTGSVGLDL	ALGIGGV	PKGRI	60		
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NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDED	DKQKAISLA	IKQIDK	VFGK	GALVRLGDK	.QVEKIDS	ISTGSLGLDL	ALGIGGV	PKGRI	62			
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKK	KALAAVLEK	LDKT	YGKG	TVMKLG	DGTVDHNI	EVIPSGSLGLDL	ALGVGGY	PKGRI	69		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEPEQ	KKQ	ALEA	ALAQIEKQ	FGKG	SIMKLGQT	.EQLDIES	VSTGSLGLDL	ALGIGGL	PMGRI	77		
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSK	ALAA	ALAQIEKS	FGKG	AIMKMDGS	QQUEENLE	ISTGSLGLDL	ALGVGGL	PRGRI	61		
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSK	ALAA	ALAQIEKS	FGKG	AIMKMDGS	QQUEENLE	ISTGSLGLDL	ALGVGGL	PRGRI	61		
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSK	ALAA	ALAQIEKS	FGKG	AIMKMDGS	QQUEENLE	ISTGSLGLDL	ALGVGGL	PRGRI	61		
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSA	EKQ	KALAA	ALAQIEKQ	FGKG	SIMKMGDA	.EVEPVQVV	VSTGSLGLD	VALGVGGL	PRGRV	69		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQK	ALAA	ALGQIEKQ	FGKG	SIMRLGDN	.RAMDVETI	ISTGSLSLD	IALGAGGL	PMGRI	60		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQK	ALAA	ALGQIEKQ	FGKG	SIMRLGDN	.RAMDVETI	ISTGSLSLD	IALGAGGL	PMGRI	60		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KS	KALQA	ALSQIEKQ	FGKN	TVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGRI	60		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KS	KALQA	ALSQIEKQ	FGKN	TVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGRI	60		
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KK	RALAA	ALGQIEKQ	FGKG	AVMRMGDH	.DRQA	IPSISTGSLGLD	IALGIGGL	PKGRI	60		
NTDB id 401679 GK048 RS11925 WP 342825562.1	MAV....KKASK.TVSVNGSAA	DREKT	LELALA	QIEKS	FRG	GAVMRMG	EAGNNQGV	KAVPTGS	IALDL	ALGVGGL	PRGRI	75	
NTDB id 600 KW2 RS01765 WP 011675413.1	MAT....KKKTNFDDITKKYGA	ERD	KALAD	ALALIEKD	FGKGS	SLMRLGE	AAN	.QKVS	VVS	SGSLALD	IALGAGGY	PKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MA....KKPKKLEEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 228 SPD RS09265 WP 001085462.1	.MA....KKPKKLEEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 194 SPR RS08825 WP 001085462.1	.MA....KKPKKLEEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 159 SP RS09750 WP 001085462.1	.MA....KKPKKLEEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MA....KKPKKLDEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MA....KKPKKLDEISKKFGA	ERE	KALND	ALKLIEKD	FGKGS	SIMRLGERAE	.QKVQVM	S	SGSLALD	IALGSGGY	PKGRI	74	
NTDB id 408 SMU RS09530 WP 002262392.1	.MA....KRIKKTEEITKKFGD	ERR	KALDD	ALKNIEKD	FGKG	AVMR	GERAE	.QKVQVM	S	SGSLALD	IALGAGGY	PKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MA....KKLKKNEEITKKFGD	ERR	KALDD	ALKNIEKD	FGKG	AVMR	GERAE	.QKVQVM	S	SGSLALD	IALGAGGY	PKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQA	ALDM	ALKQIEKQ	FGKG	SIMKLGE	KTD	.TRISTV	PSGSLALD	TALGIGGY	PRGRI	59	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQA	ALDA	ALKKIEKN	FGKGS	SIMRMGE	KVD	.TQVSTV	S	SGSLALDE	ALGVGGY	PRGRI	61
consensus		**	***	**	***!	*!*****	*	***!***!***!***!***!***!	***!***!***!***!***!***!				

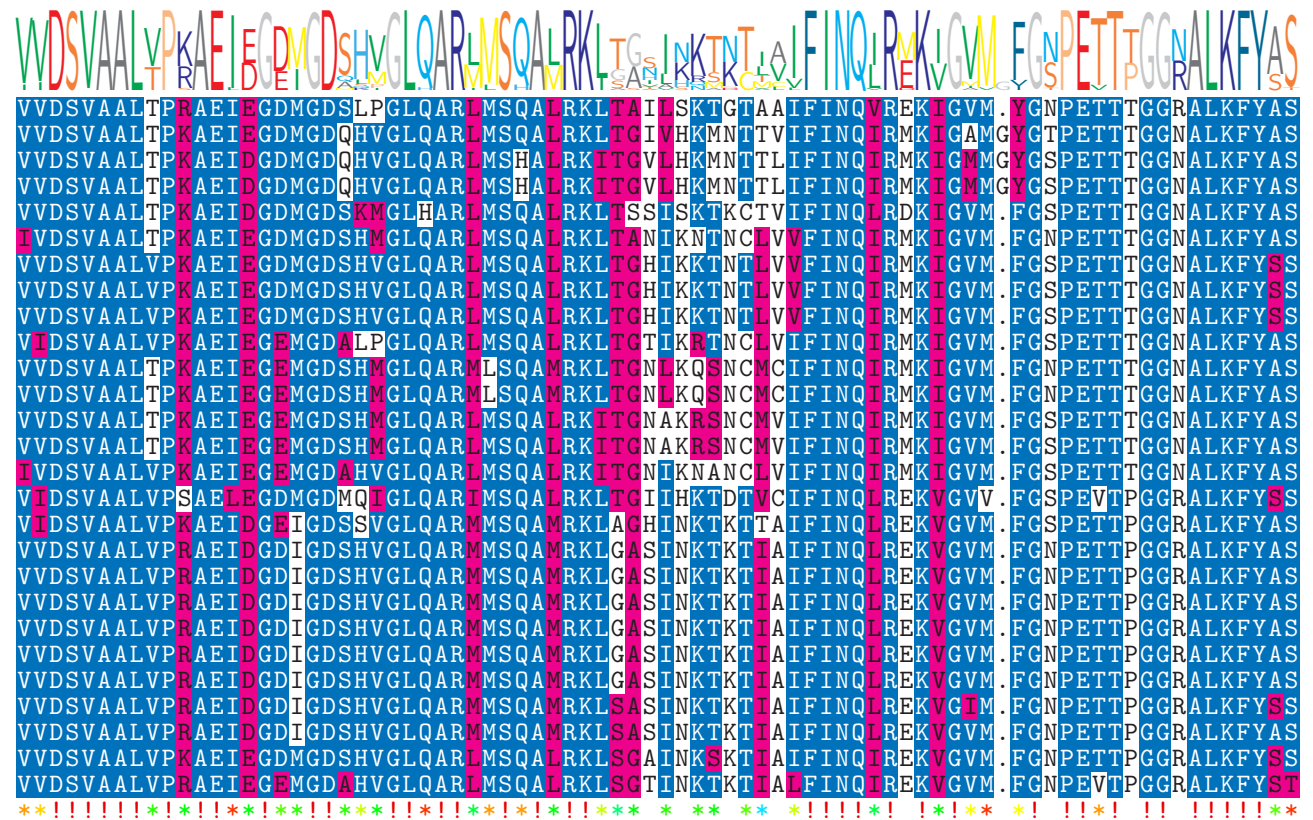
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NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
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
NTDB id 401679 GK048 RS11925 WP 342825562.1
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 408 SMU RS09530 WP 002262392.1
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NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVRKIGQ....PTKVGND	AVANTV	KIKTVKNKVA	APFKE	VELAL	IVYGK	GFDQLS	DLVGL	AADMD	DI	TKKAG	SFYSY	GD	308			
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRIDIRRIAA....L.KQNE	EQHI	GNRAK	AKVVK	NKVAPP	FR	EA	EFDIM	FGE	GISKE	GEI	IDYGV	KLDIV	DKSGAWLSYQD	297		
NTDB id 1211 C694 RS00795 WP 000963128.1	VRIDIRRIAS....L.KQNE	EQHI	GNRAK	AKVVK	NKVAPP	FR	EA	EFDIM	FGE	GISKE	GEI	IDYGV	KLDIV	DKSGAWLSYQD	297		
NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIRRLSLDSTGKIKDKS	GEVIGNRT	KVKVVK	NKVAPP	FK	SA	EFDIM	YGEG	VSKV	GEIL	DVAT	DLDI	IQKSG	SWFSYQD	308		
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NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGN	ETRVK	VIKN	KVAPPFR	QAEFD	DILY	GEGIS	WEGE	LIDIG	VKN	DI	INKSG	AWYSYNG	295		
NTDB id 1124 NGFG RS03960 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGN	ETRVK	VIKN	KVAPPFR	QAEFD	DILY	GEGIS	WEGE	LIDIG	VKN	DI	INKSG	AWYSYNG	295		
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIRRTGA....I.KEG	EEV	VGNET	RIK	VVK	NK	IA	APFKE	ANTQ	IMYG	QGFN	REG	ELID	LG	VKHKMVEKSGAWYSYNG	294	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIRRIGQ....V.KEG	DEIIG	SETKV	KVKVKNK	MAPPFR	EA	IFQILY	GKGV	NQLG	ELVD	LAV	QQN	IVQK	AGAWYSYQG	294		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIRRIGQ....V.KEG	DEIIG	SETKV	KVKVKNK	MAPPFR	EA	IFQILY	GKGT	NQLG	ELVD	LAV	QQD	IVQK	AGAWYSYQG	294		
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NTDB id 600 KW2 RS01765 WP 011675413.1	VRLDVRGSTKIEEGS.GDN	KTIIGKI	TKIK	VVK	NKVAPP	FK	VAL	DIM	FGE	GISST	GELL	NIA	VEE	GI	IKKSGAWFAYND	313	
NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRGNTQIKGTG.DQK	ETN	VGKET	KIKVVK	NKVAPP	FK	EA	VVEIMY	GEGIS	KTGEL	LKIAS	DL	DI	IKKAGAWYSYKD	312		
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NTDB id 194 SPR RS08825 WP 001085462.1	VRLDVRGNTQIKGTG.DQK	ETN	VGKET	KIKVVK	NKVAPP	FK	EA	VVEIMY	GEGIS	KTGEL	LKIAS	DL	DI	IKKAGAWYSYKD	312		
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NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRGSTQIKGTG.DQK	DTN	VGKET	KIKVVK	NKVAPP	FK	EA	FVEIMY	GEGIS	KTGEL	LKIAS	DL	DI	IKKAGAWYSYKD	312		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VRLDVRGSTQIKGTG.DQK	DTN	VGKET	KIKVVK	NKVAPP	FK	EA	FVEIMY	GEGIS	KTGEL	LKIAS	DL	DI	IKKAGAWYSYKD	312		
NTDB id 408 SMU RS09530 WP 002262392.1	VRLDVRGNTQIKGTG.EQK	DSN	IGKET	KIKVVK	NKVAPP	FK	EA	FVEI	IYGE	GISRT	GELV	KIAS	DL	GI	IQKAGAWYSYNG	312	
NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRGTTQIKGTG.DQK	DSS	IGKET	KIKVVK	NKVAPP	FK	VAE	VEIMY	GEGIS	RTGEL	VKIAS	DL	DI	IQKAGAWFSYNG	312		
NTDB id 115 BSU 16940 NP 389576.2	VRLEVRRAEQLKQGN....D	VMGNK	TKIK	VVK	NKVAPP	FR	TAEV	VDIMY	GEGIS	KEGE	IIDL	GT	ELD	IVQKSG	SWYSYEE	293	
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVRRAETIKNGT....D	MI	GNRA	RIK	VVK	NKVAPP	FK	VAE	VDIMY	GQGIS	RTGEL	VDMA	VEK	DI	INKSG	SWYSYGS	295
consensus	!!****!	*	**	*****!!	!!*!!*!	*	*****!	***	****	**	***	!	!****!				

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NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQGKEKTIA Y IAERP ME QEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE..A.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGGREN S KAF L KENPEIADEITKAIQNSMGIEGMI.....SGSEDD..EGE..E.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGGREN A KALLKEDKALADEITLKIKESIGSN E EI.....MPLPDE..PLE..EME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGGREN A KALLKEDKALADEITLKIKESIGSN E EI.....MPLPDE..PLE..EME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGGRD T VKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQGKNN A VKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSND..ESDV E E E FSE E EEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQGKDN V RVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET D GE..R.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGKDN V RVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET D GE..R.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQGKDN V RVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET D GE..R.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AVTLA.EEVEE..D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQGKANACKYLKENPEIAKTL D KKLREMLLN P ENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGKANACKYLKENPEIAKTL D KKLREMLLN P ENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLA..DADI.....	347
NTDB id 401679 GK048 RS11925 WP 342825562.1	TRLGGGREAS R KFLKANTDIRDEIEAAIRRGEDDTAPPDEQ..GETADA.....PA.....LN.....	360
NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA E KAKNYLKEHQDV F DEIDHKVRAAHGILDDSEVAETEEETTAS K TKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGSEN A KKYLA E HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGSEN A KKYLA E HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGSEN A KKYLA E HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGSEN A KKYLA E HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGSEN A KKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE....AAQVDS..VNEEVTLDLGDELEIEI	382
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NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGSEN A KKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED	383
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGSEN A KRYLADHPQLFDEIDRKVRVKFGLLEEESEESAMAVASE.....E.....TDDLALDL D NGIEIED	378
NTDB id 115 BSU 16940 NP 389576.2	ERLGGGREN A KQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGREN A KNYLADHEDVEDEVRLKVR A AYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
consensus	***!!***** ** ***** ***** ** *	

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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
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
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NTDB id	269	KZH43 RS08665 WP 001085462.1	EE	388
NTDB id	228	SPD RS09265 WP 001085462.1	EE	388
NTDB id	194	SPR RS08825 WP 001085462.1	EE	388
NTDB id	159	SP RS09750 WP 001085462.1	EE	388
NTDB id	499	SM12261 RS08315 WP 078228268.1	EE	384
NTDB id	527	SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id	408	SMU RS09530 WP 002262392.1	..	383
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NTDB id	115	BSU 16940 NP 389576.2	..	348
NTDB id	625	LCA RS02525 WP 011374196.1	..	355
consensus				

-  non conserved
-  similar
-  ≥ 50% conserved