

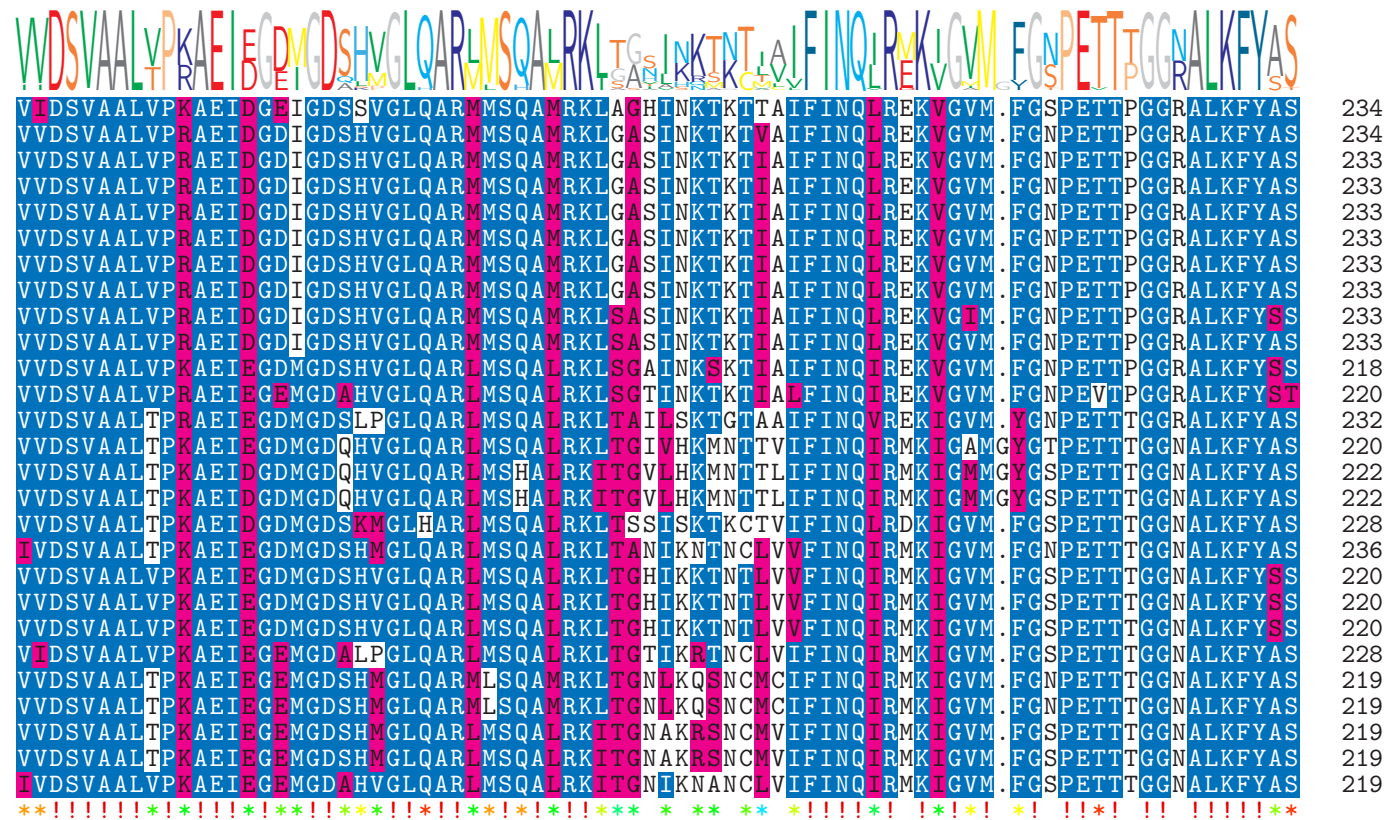
logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGA	ERDKALADALAL	IEKDFGKGSIMRLGEA	.ANQKVS	VSSGSLALD	IALGAGGY	PKGRI	75
NTDB id 51450 SSUST1 RS00420 WP 014735254.1	MAKK...PTKKLEDITKKFG	DERKKALDDALKS	IEKDFGKGAVMRLGER	.AEQKVQV	MSSGSLSLD	IALGAGGY	PKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...KPKKLEEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQV	MSSGSLALD	IALGSGGY	PKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTEEITKKFG	DERKKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQV	MSSGSLALD	IALGAGGY	PKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFG	DERKKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQV	MSSGSLALD	IALGAGGY	PKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTRI	ISTVPSGSLALD	TALGIGGY	PRGRI	59	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQV	STVSSGSLALDE	ALGVGGY	PRGRI	61	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAMSQ	IEKAFGKGSIMKLGAE	.SKLDVQVV	STGSLSLDL	ALGVGGI	PRGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDL	ALGIGGV	PKGRI	60	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVRLGDK.QVEKIDS	ISTGSLGLDL	ALGIGGV	PKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVRLGDK.QVEKIDA	ISTGSLGLDL	ALGIGGV	PKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDL	ALGVGGY	PKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEP	EQKKQALEAALAQ	IEKQFGKGSIMKLGQT	.EQLDIESV	STGSLGLDL	ALGIGGL	PMGRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEEENLEVI	ISTGSLGLDL	ALGVGGL	PRGRI	61	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEEENLEVI	ISTGSLGLDL	ALGVGGL	PRGRI	61	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEEENLEVI	ISTGSLGLDL	ALGVGGL	PRGRI	61	
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSA	EKKQKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQVV	STGSLGLD	VALGVGGL	PRGRV	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	IALGAGGL	PMGRI	60	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	IALGAGGL	PMGRI	60	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGRI	60	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGRI	60	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQ	IEKQFGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	IALGIGGL	PKGRI	60	
consensus	*** **	***	***	***	***	***	***	

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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESSGKTTVALHAVA	AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELL	LSQPDYGEQGLQIAEKLITSGAVDLV	155			
NTDB id 51450 SSUST1 RS00420 WP 014735254.1	IEIYGPESSGKTTVALHAVAQAQKDG	GIVAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	155			
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154				
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154				
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154				
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154				
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154				
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NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEEHALDPAYAAALGVNIDELL	LAQPDSEGGGLEIAGKLIDSGAVDLV	154				
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESSGKTTVALHAI	IAEVQQGGQAAFIDAEEHALDPVYAQKLGVNIEELL	LSQPDTEGQALEIAEALVRS	GAVDIV 139			
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESSGKTTVALHAVA	AEVQKQGGTAA	YIDAENAMDPKYATALGVNIDELL	LSQPDTEGQGLEIADALVSS	GAVDIV 141		
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESSGKTTLALAI	VAQAQKAGGTC	AFIDAEEHALDPVYARALGVNTDELL	VSQPDNGEQALEIMELLVRS	GATDVV 153		
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTTLHI	IAECQKAGGVC	AFIDAEEHALDVKYAKNLGVNTD	LLYVSQPDFGEQALEIVETI	ARS	GAVDLI 140	
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTLSLHI	IAECQKNGGVC	AFIDAEEHALDVHYAKRLGVD	TENLLVSQPDTEGQALEILETIT	TRSGGIDLV 142		
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NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESSGKTTTLHAI	IAEAQKVGGTAA	AFIDAEEHAFDMHYAEKLGINLEEL	IVSQPDNGEQALEIADSL	TRSGGVDIV 149		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTTLSLI	IAQAQKGNKTC	AFIDAEEHALDPVYARNLGVNTELL	ISQPDNGEQALEICDALVRS	GAVDVI 157		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESSGKTTLCLEA	VAQCQKNGGVC	AFVDAEEHAFDPVYARKLGVKVEELY	LSQPDTEGQALEICDTL	VRS	GIDMV 141	
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESSGKTTTLQV	VAEMQKLG	GTC	AFIDAEEHALDVTYADKLGKVPD	LLISQPDTEGQALEIADAL	VRS	GSVDLI 149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTTLLEL	IAAAQREGKTC	AFIDAEEHALDPVYAKKLGVNIDELL	VSQPDTEGQALEICDAL	ARSGAVDVI 140		
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NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESSGKTTTL	LSVIAAAQRMGSTC	AFVDAEEHALDPDYAGKLGVNVD	LLVSQPDTEGQALEITDML	VRS	NAVDVI 140	
consensus	*!*****!*****!*	!***!	!* **	!*****!*****!*	!!	!!*****!*****!*****!*****!*	* ** !*****!*

NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 51450 SSUST1 RS00420 WP 014735254.1
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
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 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
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	VRLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKN	KNKVAPPF	KVALV	DIMF	GEGIS	STGEL	INTA	VEEG	TIKK	SGAW	FAYND	313			
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NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 228 SPD RS09265 WP 001085462.1	VRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 194 SPR RS08825 WP 001085462.1	VRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 159 SP RS09750 WP 001085462.1	VRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KD	312			
NTDB id 408 SMU RS09530 WP 002262392.1	VRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKN	KNKVAPPF	KEAFV	EIMY	GEGIS	RTGEL	VKIAS	DLGI	IIQK	AGAW	YSYNG	312			
NTDB id 453 Spy49 1753c AC162003.1	VRLDVRG	TTTQIKGTG	.DQKDSS	IGKETK	IKVVKN	KNKVAPPF	KVAEV	EIMY	GEGIS	RTGEL	VKIAS	DLDI	IIQK	AGAW	FSYNG	312			
NTDB id 115 BSU 16940 NP 389576.2	VRLEVR	RAEQLKQGN		DVMGN	KTKIKV	VKNKVAPPF	RTAEV	DIMY	GEGIS	KEGEI	IDLGT	ELDI	VQKS	GSW	YSYEE	293			
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVR	RAETIKNGT		DMIGN	RAIKV	VKNKVAPPF	KVAEV	DIMY	GEGIS	RTGEL	VDMAVE	KDIIN	KSGS	W	YSYGS	295			
NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVR	KIGQ....	PTKVG	NDAV	ANTV	KIKTV	KNKVA	APFKE	VELAL	VYGKG	FDQLS	DLVGL	AADM	DIKKAG	SFYSY	GD	308		
NTDB id 1245 Cj1673c YP 002345041.1	VRLDVR	KKVAT....	L.KQNE	EP	IGNRV	KVKN	VKNKVAPPF	RQAEF	DVMF	GEGLS	REGEL	IDYG	VKLDI	VDKSG	AW	FSYKD	295		
NTDB id 1211 C694 RS00795 WP 000963128.1	VRIDIR	RIAS....	L.KQNE	QH	IGNRA	KAKV	VKNKVAPPF	REA	EFDIM	FGE	GISKE	GEI	IDYG	VKLDI	VDKSG	AWLSY	QD	297	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRIDIR	RIAA....	L.KQNE	QH	IGNRA	KAKV	VKNKVAPPF	REA	EFDIM	FGE	GISKE	GEI	IDYG	VKLDI	VDKSG	AWLSY	QD	297	
NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIR	RRSLSD	TGKIKDKS	GEV	IGNRT	KVKV	VKNKVAPPF	KSA	EFDIM	YGEG	VSKV	GEILD	VATDL	DIQKS	GSW	FSYQD	308		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIR	RCGV....	V.KDG	DEI	IGSE	TKVKV	VKNKVAPPF	REV	QFDIM	YGEG	ISRM	NELL	ILAE	ANGFI	KKSG	AW	FSYDG	311	
NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIR	RTGS....	I.KKG	EEV	LGNE	TRVKV	IKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWYSY	NG	295		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIR	RTGS....	I.KKG	EEV	LGNE	TRVKV	IKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWYSY	NG	295		
NTDB id 1427 RS RS02760 WP 011000510.1	VRLDIR	RRIGS....	I.KKG	DEV	VGN	ETKV	VKNKVAPPF	REA	IFDILY	GAGV	SREGE	IIDL	GV	EAKV	VVEKS	AGAW	YSYNG	303	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIR	RTGA....	I.KEG	EEV	VGN	ETRIK	VKNK	IAAP	FKEANT	QIMY	GGFN	REGEL	IDLG	VKHK	MVEKS	AGAW	YSYNG	294	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIR	RTGA....	I.KEG	EEV	VGN	ETRIK	VKNK	IAAP	FKEANT	QIMY	GGFN	REGEL	IDLG	VKHK	MVEKS	AGAW	YSYNG	294	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIR	RRIGQ....	V.KEG	DEI	VGSE	TKVKV	VKNKM	MAP	PFKEA	IFQILY	GKGTN	NQLGEL	VDL	AVQQ	DIVQ	KAG	AWYSY	QG	294
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIR	RRIGQ....	V.KEG	DEI	IGSE	TKVKV	VKNKM	MAP	PFRE	AIFQILY	GKGV	NQLGEL	VDL	AVQQ	NIVQ	KAG	AWYSY	QG	294
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIR	RTGA....	V.KEG	DEV	VGSE	TRVKV	VKNKVAPPF	RQAEF	QILY	GKGIY	RNGE	IIDL	GV	QQGL	VEKSG	AWYAY	KG	294	
consensus	!!	****	!	*	*	*	*	*	*	*****	!!!!!!	!!!!!!	!!!!	*****		*****	!!	!!!!!!	!

NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 51450 SSUST1 RS00420 WP 014735254.1
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
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
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NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
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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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

Sequence	Score
EKIGQGA ⁺ E ⁺ KA ⁺ KN ⁺ Y ⁺ L ⁺ KE ⁺ HQ ⁺ DV ⁺ FDE ⁺ ID ⁺ HK ⁺ VRAA ⁺ HGLDDSEVAETEEETTAS ⁺ KT ⁺ KA ⁺ KA ⁺ KEE ⁺ KA ⁺ VE ⁺ TE ⁺ IE ⁺ LE ⁺ ED ⁺	387
EKIGQGSEN ⁺ AK ⁺ KFL ⁺ AD ⁺ NP ⁺ AI ⁺ FDE ⁺ ID ⁺ RK ⁺ IR ⁺ VHYGLI ⁺ EADGV ⁺ EEV ⁺ ATEE ⁺ AA ⁺ ...PVV.....	383
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLA ⁺ EH ⁺ PE ⁺ IFDE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FGLIDGEEV ⁺ SEQD ⁺ TEN ⁺ KKDE ⁺ PKK...E..	386
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLA ⁺ EH ⁺ PE ⁺ IFDE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FGLIDGEEV ⁺ SEQD ⁺ TEN ⁺ KKDE ⁺ PKK...E..	386
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLA ⁺ EH ⁺ PE ⁺ IFDE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FGLIDGEEV ⁺ SEQD ⁺ TEN ⁺ KKDE ⁺ PKK...E..	386
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLA ⁺ EH ⁺ PE ⁺ IFDE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FGLIDGEEV ⁺ SEQD ⁺ TEN ⁺ KKDE ⁺ PKK...E..	386
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLAD ⁺ NP ⁺ EI ⁺ FDE ⁺ ID ⁺ HQ ⁺ VR ⁺ VQ ⁺ FGLIDGEE ⁺ IA ⁺ ES...KKDEAAQ...V..	382
EKIGQGS ⁺ EN ⁺ AK ⁺ KYLAD ⁺ NP ⁺ EV ⁺ FA ⁺ IED ⁺ HQ ⁺ VR ⁺ VQ ⁺ FGLIDGEEAA ⁺ ES...KKDEVAQ...V..	382
EKIGQGS ⁺ EN ⁺ AK ⁺ KFLAD ⁺ NP ⁺ EI ⁺ FD ⁺ ID ⁺ HK ⁺ VR ⁺ VQ ⁺ YGLIEED ⁺ NTE ⁺ EK ⁺ QSS ⁺ KEK...ET...D..	383
EKIGQGS ⁺ EN ⁺ AK ⁺ RYLAD ⁺ HP ⁺ QL ⁺ FDE ⁺ ID ⁺ RK ⁺ VR ⁺ VK ⁺ FGLLEE ⁺ SEES ⁺ AMAV ⁺ ASE...E.....	378
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-  non conserved
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