

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALD	I	ALGAGGY	PKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFG	DERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALK	QIEKQFGKGSIMKLGEK	.TDTRI	STVPSGSLALD	T	ALGIGGY	PRGR		58		
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDA	ALKKIEKNFGKGSIMRMGEK	.VDTQV	STVSSGSLALDE	A	LGVGGY	PRGR		60		
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAM	SQIEKAFGKGSIMKLGAE	.SKLDVQV	VSTGSLSLD	I	ALGVGGI	PRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDA	ALKSLDKTIFGKGTILRLGDK	.EVEQIDS	IGTGSVGLD	I	ALGIGG	VPKGR		59		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAI	SLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDA	ISTGSLGLD	I	ALGIGG	VPKGR	61		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAI	SLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDE	ISTGSLGLD	I	ALGIGG	VPKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTS	PNDDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	EVIPS	GS	LGLD	I	ALGVGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQ	VEPEQKKQALEAALA	QIEKQFGKGSIMKLGQT	.EQLDIES	VSTGSLGLD	I	ALGIGGL	PMGR	76		
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREENLEVIST	GSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREENLEVIST	GSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREENLEVIST	GSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAAS	MSAEKQKALAAALA	QIEKQFGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	V	ALGVGGL	PRGR	68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR		59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR		59		
NTDB id 361807 FDF20 RS10210 WP 000344167.1	MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR		59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR		59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR		59		
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALG	QIEKQFGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	I	ALGIGGL	PKGR		59		
consensus	***	***	*	***!	***!	***!	***!	***!	***!		

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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
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consensus

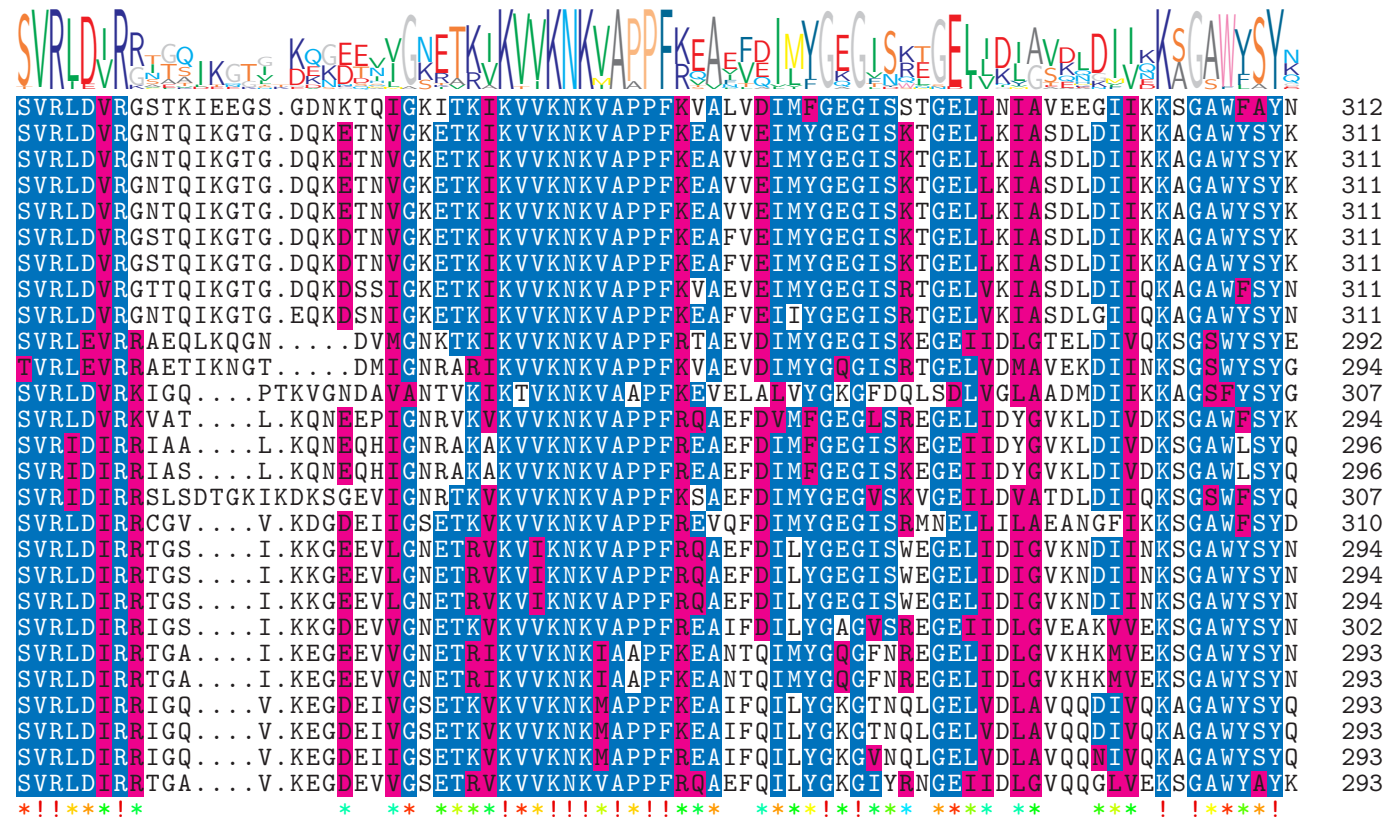
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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Sequence	Score
DEKIGQGA ¹ AKAKNYL ² KEHQ ³ DV ⁴ FDEID ⁵ HKV ⁶ RAAH ⁷ GL ⁸ LDSEVAETEEE ⁹ .TTASKTK ¹⁰ ..AKAKKEEKAVETEEIELELED ¹¹ ..	387
DEKIGQGS ¹² ENAKKYLA ¹³ EHPEIF ¹⁴ DEID ¹⁵ KQVRSKF ¹⁶ GL ¹⁷ IDGEEVSEQDTE.NKKD ¹⁸ E.....PKKEEA ¹⁹ ..VNEEVPLDLGDEL ²⁰	382
DEKIGQGS ²¹ ENAKKYLA ²² EHPEIF ²³ DEID ²⁴ KQVRSKF ²⁵ GL ²⁶ IDGEEVSEQDTE.NKKD ²⁷ E.....PKKEEA ²⁸ ..VNEEVPLDLGDEL ²⁹	382
DEKIGQGS ³⁰ ENAKKYLA ³¹ EHPEIF ³² DEID ³³ KQVRSKF ³⁴ GL ³⁵ IDGEEVSEQDTE.NKKD ³⁶ E.....PKKEEA ³⁷ ..VNEEVPLDLGDEL ³⁸	382
DEKIGQGS ³⁹ ENAKKYLA ⁴⁰ DNPEVFA ⁴¹ EID ⁴² HQVRVQF ⁴³ GL ⁴⁴ IDGEEAAE.....SKKD ⁴⁵ E.....VAQVDS ⁴⁶ ..VNEEVTLDLGDEL ⁴⁷	378
DEKIGQGS ⁴⁸ ENAKKYLA ⁴⁹ DNPEIF ⁵⁰ DEID ⁵¹ HQVRVQF ⁵² GL ⁵³ IDGEEIAE.....SKKD ⁵⁴ E.....AAQVDS ⁵⁵ ..VNEEVTLDLGDEL ⁵⁶	378
GEKIGQGS ⁵⁷ ENAKRYLADHPQLF ⁵⁸ DEID ⁵⁹ RKVRVKF ⁶⁰ GL ⁶¹ LEESEESAMAV.ASE.....E.....TDDLALDLNGI ⁶²	374
GEKIGQGS ⁶³ ENAKKFLADNP ⁶⁴ EIF ⁶⁵ DDID ⁶⁶ HKVRVQY ⁶⁷ GL ⁶⁸ IEEDNTEEKQSS.KEK.....ETDEK ⁶⁹ ..ADKNLVLELDDTI ⁷⁰	379
EE ⁷¹ RLGQGR ⁷² ENAKQFL ⁷³ KEN ⁷⁴ KDIMLMIQEQ ⁷⁵ IREHY ⁷⁶ GLDNNGVVQQQAEE.TQEEL.E..FE.E.....	348
SERIGQGR ⁷⁷ ENAKNYLADHEDVE ⁷⁸ DEV ⁷⁹ RLKVR ⁸⁰ AAY ⁸¹ GIS ⁸² DVPEEDLPTTE.DE.QI.N..ILPDDST.....EE.....	355
DERIGQG ⁸³ KEKTIA ⁸⁴ YIA ⁸⁵ ERP ⁸⁶ MEQE ⁸⁷ IRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA ⁸⁸	363
DKKLGGGR ⁸⁹ ENSKAFL ⁹⁰ KENPEIA ⁹¹ DEIT ⁹² KAIQNSM ⁹³ GIEGMISGS..EDDEGE. ⁹⁴ E.....	343
DKKLGGGR ⁹⁵ ENAKALLKEDKALADEIT ⁹⁶ LKIKESIG ⁹⁷ SNEEIMPL..PDEPLE. ⁹⁸ EME.....	347
DKKLGGGR ⁹⁹ ENAKALLKEDKALADEIT ¹⁰⁰ LKIKESIG ¹⁰¹ SNEEIMPL..PDEPLE. ¹⁰² EME.....	347
DTKLGGGR ¹⁰³ DTV ¹⁰⁴ KEL ¹⁰⁵ IKDNPELA ¹⁰⁶ E ¹⁰⁷ LEAK ¹⁰⁸ IREKLQAK.....	343
GTKIGQG ¹⁰⁹ KNNNAVK ¹¹⁰ LKENPEIA ¹¹¹ DKLEQE ¹¹² IRNTLASNPNSVLK ¹¹³ ..ATASDSND ¹¹⁴ ESDVEEFSE.....EEL ¹¹⁵	372
GAKIGQG ¹¹⁶ KDNVRVWLKENPEIS ¹¹⁷ DEIDAK ¹¹⁸ IRALNGVEMHITEG ¹¹⁹ ..TQDET ¹²⁰GERPE ¹²¹E.....	348
GAKIGQG ¹²² KDNVRVWLKENPEIS ¹²³ DEIDAK ¹²⁴ IRALNGVEMHITEG ¹²⁵ ..TQDET ¹²⁶GERPE ¹²⁷E.....	348
GAKIGQG ¹²⁸ KDNVRVWLKENPEIS ¹²⁹ DEIDAK ¹³⁰ IRALNGVEMHITEG ¹³¹ ..TQDET ¹³²GERPE ¹³³E.....	348
GERIGQGR ¹³⁴ DNCR ¹³⁵ REFLRENAELAR ¹³⁶ EIENK ¹³⁷ VREHL ¹³⁸ GVTPMGAV ¹³⁹ ..TLAEEVEED ¹⁴⁰	352
GDKIGQG ¹⁴¹ KANACKYLKENPEIAKT ¹⁴² LDKKLREMLLNPNMQLI ¹⁴³ ..AETSSAADVEFGAVPE ¹⁴⁴EF ¹⁴⁵	354
GDKIGQG ¹⁴⁶ KANACKYLKENPEIAKT ¹⁴⁷ LDKKLREMLLNPNMQLI ¹⁴⁸ ..AETSSAADVEFGAVPE ¹⁴⁹EF ¹⁵⁰	354
GNKIGQG ¹⁵¹ KNNVIRYFEENNQIA ¹⁵² E ¹⁵³ EIERNIREQLLTGTNGAV ¹⁵⁴ ..Q.I.EDEEEDP ¹⁵⁵ ..LLE.....S.....	349
GNKIGQG ¹⁵⁶ KNNVIRYFEENNQIA ¹⁵⁷ E ¹⁵⁸ EIERNIREQLLTGTNGAV ¹⁵⁹ ..Q.I.EDEEEDP ¹⁶⁰ ..LLE.....S.....	349
GNKIGQG ¹⁶¹ KNNVIRYLEENPQISTE ¹⁶² IEAV ¹⁶³ IREQLLTAKSDQTA ¹⁶⁴ ..A.HDETEEEDP ¹⁶⁵ ..LLES.....	349
GSKIGQG ¹⁶⁶ KANAAKYLEENPEIQ ¹⁶⁷ EIEEQ ¹⁶⁸ IRAKLLVTSANTKA ¹⁶⁹ ..TPVAEDLAD ¹⁷⁰ ..I.....	347

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NTDB id 600 KW2 RS01765 WP 011675413.1		387						
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE	388						
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NTDB id 1022 ACIAD RS06390 WP 004925639.1		349						
NTDB id 1205 PSJM300 05545 AFN77183.1		347						
consensus								

-  non conserved
-  similar
-  ≥ 50% conserved