

NTDB	id	620	LCA	RS06465	WP	041820876.1	MKAARLSK	NEGFTLIEMCVVLAIVSLLSWLP	TIYQIKQYRAQQAQFLH	QFE...	TSWDA	57		
NTDB	id	1184	GTF74	RS02335	WP	000649326.1	MKAYKNKQ	QKQGFTLIELMIVVAVIGVLA	AIAIPQYQNYVVKSAIGV	GLAN...	ITALKTN	57		
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	MKAYKNKQ	QKQGFTLIELMIVVAVIGVLA	AIAIPQYQNYVVKSAIGV	GLAN...	ITALKTN	57		
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	MKAYKNKQ	QKQGFTLIELMIVVAVIGVLA	AIAIPQYQNYVVKSAIGV	GLAN...	ITALKTN	57		
NTDB	id	1038	HON27	RS01510	WP	000993725.1	MNAQ	QKQGFTLIELMIVVAIIGILA	AIAIPQYQNYIAKSVNS	GFSE...	ISSIKTG	52		
NTDB	id	1076	ABD1	RS08075	WP	000594585.1	MIKNKYIHRSIASRLAARSS	ARLTRASGFTLV	ELLVAIAIFAVLS.LLGW	KIFDYLLKVRDRN	AEHEVH..	LFELQDA	77	
NTDB	id	1308	DR	RS06345	WP	010887875.1	MKDRGQ	SGMTLIELLVVIAIIGILM	GLFGWNLVRSIRAAELRE	AATQVAVD	LQARSQ	58		
NTDB	id	1415	SGL	RS07945	WP	010872381.1	MA.....SNFKFKLLS	QLSKKRAEGGFTL	IELLVVVIIIGVLA	AIALPNLLGQV	KARESE	KLAT...	IGALNRA	67
NTDB	id	1292	VP	RS12235	WP	005479693.1	MKHSKQKK	QKQGFTLIELMIVVAIIGV	LAAAIAIPAYQNYVT	RSEVTSGLAT...	VKALITP	57		
NTDB	id	1007	ACIAD	RS15000	WP	004923844.1	MRVRH	GFTLIELMIVVAIIGILA	AIAIPSYQNYKIRVNR	SDVQSELI...	RVSQQ	52		
NTDB	id	1005	ACIAD	RS03200	WP	004922618.1	MYNCF	GFTLIEFITVSAIIAIL	VSLGLPAYHRHMAAQE	ARTIPHILTIH	IQKASE	57		
NTDB	id	1064	ABD1	RS15725	WP	001046490.1	MNKYYILRF	NQGFTLIELMVVIVIVAI	IFASIAIPSYQSYSR	RATASAKSE...	ILKLAEQ	58		
NTDB	id	1424	RS	RS02795	WP	011000517.1	MKSMRHLNKR	VQKQGFTLIELMIVVAI	IGILAAIAIPAYQDY	TVRARVTECL	SL....	AAQAKAL	60	
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	MKTNKQKK	QKQGFTLIELMIVVAIIGI	LAAIAIPAYQDYTK	KATMAEFPKI...	ASSTKLA	57		
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNTLQK	GFTLIELMIVIAIVGILA	AAVALPAYQDYTA	RAQVSEAILL...	AEGQKSA	53		
NTDB	id	1109	OK783	RS10670	WP	157147416.1	MNTLQK	GFTLIELMIVIAIVGILA	AAVALPAYQDYTA	RAQVSEAILL...	AEGQKSA	53		
NTDB	id	1188	NELON	RS01755	WP	003772458.1	MKAMQK	GFTLIELMIVIAIIGILA	AAIALPAYQDYTV	RSKVSEALIA...	ASSPKSA	53		
NTDB	id	1191	AAC28468.1	484..945()			MLKKVQK	QKQGFTLIELMIVIAIIGI	LAAIAIPAYQDYTA	RAQATEGFKA...	TAGLQTD	54		
NTDB	id	1309	DR	RS02825	WP	034349477.1	MKNTTQ	GFTLIELLVIAIIGILA	AAVLIPNLLGARAK	ANDSATQSY...	IRNCYTA	53		
NTDB	id	379380	GmarT	RS29315	WP	155367955.1	MTSAPSLSTR	RGFTLIELLVVIAIIAIL	IALLLPAVQ.....			37		
NTDB	id	1204	PSJM300	03935	AFN	76865.1	MKPVKSSCR	GFSLIELMIVVAIIGILA	AAIALPAYQNYTV	RSTAASALAE...	ITPAKAA	56		
NTDB	id	1197	PSJM300	03940	AFN	76866.1	MKAQMCK	GFTLIELMIVVAIIGILA	AAIALPAYQNYTV	RSNAAAALAE...	ITPGKIG	54		
consensus								* ! * ! * ! * * * * * * * * * * * * * * * * * *		* * * *				

NTDB	id	620	LCA	RS06465	WP	041820876.1	ARQYVA...IEPRAVG..V....MWDAPHTITFKGAGESFRNHQLVLP.....ETLTV....SNPAEWHL	110
NTDB	id	1184	GTF74	RS02335	WP	000649326.1	IEDYIAT.EGSPFATTA.GT.....AAGFTRLGTVEDMGDGK.....IVIAPTASGALGGT	107
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	IEDYIAT.EGSPFATTA.GT.....AAGFTRLGTVEDMGDGK.....IVIAPTASGALGGT	107
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	IEDYIAT.EGSPFATTA.GT.....AAGFTRLGTVEDMGDGK.....IVIAPTASGALGGT	107
NTDB	id	1038	HON27	RS01510	WP	000993725.1	YENAVNE..CAVPTKLS.....DVGFTA.....ATSSVCATYSIDAFTETDGAGKI	96
NTDB	id	1076	ABD1	RS08075	WP	000594585.1	YQQILRDLTLQIIPLSANQGQQLHPALEIDNQILRFSKAGVTDPLKQGLSPF.....ER	131
NTDB	id	1308	DR	RS06345	WP	010887875.1	AQRGSRDIVVVLPGSTG.GT.....TYRFDTDVKTIPNNVQLIC.....KSNCGT.....GTTTN	108
NTDB	id	1415	SGL	RS07945	WP	010872381.1	QQGYFTE.KGTFATDTE.....TLEVPAPDGNFFSFAVNT....ADNTEA.IQD...ATALNWEA	118
NTDB	id	1292	VP	RS12235	WP	005479693.1	AELHYQE.NCIAAAATL..A.....QLGVD.....VAANDLGA..IDSA...LAGGSP	97
NTDB	id	1007	ACIAD	RS15000	WP	004923844.1	LQSYKMV.NHGYANA.S.....LAGL.....GNAASYPVTGTAFYTLNLAVD.....	92
NTDB	id	1005	ACIAD	RS03200	WP	004922618.1	AVMYRHN.VIICPSHDT.....QTCSD....DWSNGLIMFLDR..NRNRERDLDEKILS....ATQWNT	110
NTDB	id	1064	ABD1	RS15725	WP	001046490.1	LEQHKS.R.NFTY.....RGFTTTSITLPRGGYTIQ.....ITDDTTTGNL.LTNTAANGQTWV	110
NTDB	id	1424	RS	RS02795	WP	011000517.1	VSENAAN.AQSDLSVGS.....S.VFTP.....TKNVANLT.IAG..TGTVPQG	100
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	VELCAHE.HADAG.....AFK.....TKCH.....	77
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	VTEYYLN.HCKWPFENNT.....SAGV.....ASPPTDIKGKYVKEVEVKN.....GV	95
NTDB	id	1109	OK783	RS10670	WP	157147416.1	VTEYYLN.HGIWPKDNT.....SAGV.....ASA.STIKGYVQKVEVAK.....GV	94
NTDB	id	1188	NELON	RS01755	WP	003772458.1	LSEAFQT.DGITGMTAA.....AKAFNKT...AAAGGGAGGAAAAGTQHASKYVKSVKVTE....ASPWD	111
NTDB	id	1191	AAC28468.1	484..945()			LGAWRAD.RGSPFNAAA.....LVA.....GNVI.....FDSANG.LDG.....KYFAPGGV	94
NTDB	id	1309	DR	RS02825	WP	034349477.1	VEVARGA.DCRLPA.....AGNCNSTANLGTNAVATPGA	87
NTDB	id	379380	GmarT	RS29315	WP	155367955.1		37
NTDB	id	1204	PSJM300	03935	AFN	76865.1	FEQAI.S.ECHTPSLVS.....SLP.....GFIG.....IGASTNYCTVTLIA.....TATGS	98
NTDB	id	1197	PSJM300	03940	AFN	76866.1	FEQAI.N.ECKTPSLTS.....TDE.....GYIG.....ITDSTSYCDVDLDT....AADGH	96
consensus							* * * *	

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NTDB id 620 LCA RS06465 WP 041820876.1	INITH..NKGIKPRTLKLKSTLNN..REYQYKVQMMWG.....	144
NTDB id 1184 GTF74 RS02335 WP 000649326.1	KYTFDAGV.....VSSS.....	130
NTDB id 1167 A1552VC RS11065 WP 000649326.1	KYTFDAGV.....VSSS.....	130
NTDB id 1160 ABDM36 RS02330 WP 000649326.1	KYTFDAGV.....VSSS.....	130
NTDB id 1038 HON27 RS01510 WP 000993725.1	TCT.....LKGNP KIA.....TKIVELTRSTDGA	120
NTDB id 1076 ABD1 RS08075 WP 000594585.1	EYRYDADQ...KKLYRLKYT..NLNTSNREQPLSS.....T.....LLSQVDQYQIMVLTPQEVTK	182
NTDB id 1308 DR RS06345 WP 010887875.1	TYQAPY GELGAIGSIYTVRSPMNGI.GDYEIRIVGVTKGVILAKAGS.....	154
NTDB id 1415 SGL RS07945 WP 010872381.1	DGTRS.....MSGG.TFYDSGTRAF.....STVVCRAEAGSEDTP.....PTPGGA	158
NTDB id 1292 VP RS12235 WP 005479693.1	TLTF.....TFD.ADSSIDGGILTF.....RDAATG	123
NTDB id 1007 ACIAD RS15000 WP 004923844.1	SDNQGYVLTATPISSTMQAGNGIIC.....LNQDGQKF	125
NTDB id 1005 ACIAD RS03200 WP 004922618.1	RY....GS.....LHWRGT...LHANNIMFK.....AGTGL.....PIASNGSF	142
NTDB id 1064 ABD1 RS15725 WP 001046490.1	KATTT.DS.....RNFNFI AKNSGLRCQSLTATAVDNDCGGTVTC.....NVCETNSEN	158
NTDB id 1424 RS RS02795 WP 011000517.1	TVTY.....T....TAAGGGT LALVP..TAAGT.....ALPVSSAPSGPIM	135
NTDB id 1400 DSB67 RS12660 WP 010643261.1	QTANGIPAAFTLNNLT VTP..AAGAASGAISITVNAANDKGPIKQNEKYILTATYASNGVT	136
NTDB id 1119 NGFG RS11465 WP 017147169.1	TAT.....MLSSGVNNEIKGKKLSLWG.....RRENGSVK	125
NTDB id 1109 OK783 RS10670 WP 157147416.1	TAQ.....MASTGVNKEIQDKKLSLWA.....KRQDGSVK	124
NTDB id 1188 NELON RS01755 WP 003772458.1	TV..AISA.....TEANGIPTGLDGNTIRLFP..LVNKA.....VPAATSTGAID	152
NTDB id 1191 AAC28468.1 484..945()	TVTPDTGA.....INIAFDAGANAGKMTITP..TVI.....AASGQIST	132
NTDB id 1309 DR RS02825 WP 034349477.1	TAA...GA.....YSLDGTGSKFAVTATSVT.....NK.TFC	115
NTDB id 379380 GmarT RS29315 WP 155367955.1		37
NTDB id 1204 PSJM300 03935 AFN76865.1	TCT.....TQNGMPDRFNGKTTITIA.....RTTDGL	124
NTDB id 1197 PSJM300 03940 AFN76866.1	ECT.....AKGGNAGKFDGKTITLNLN.....RTADGE	122
consensus	***	

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NTDB id 620 LCA RS06465 WP 041820876.1	..VLHVQK.....	150
NTDB id 1184 GTF74 RS02335 WP 000649326.1	WTCSTTVTSEIA.....PKGCTAGATIN.....	153
NTDB id 1167 A1552VC RS11065 WP 000649326.1	WTCSTTVTSEIA.....PKGCTAGATIN.....	153
NTDB id 1160 ABDM36 RS02330 WP 000649326.1	WTCSTTVTSEIA.....PKGCTAGATIN.....	153
NTDB id 1038 HON27 RS01510 WP 000993725.1	WTCVSDVPTEFL.....PKGCTAGTPT..EGAITSL.....	149
NTDB id 1076 ABD1 RS08075 WP 000594585.1	WPEVNIDPTKPNELKKLPKGIKIQLTVAGVNYEWIYSLNQGDLSLS..QEGNS.....	233
NTDB id 1308 DR RS06345 WP 010887875.1		154
NTDB id 1415 SGL RS07945 WP 010872381.1	NDCGGA.....EVIK.....	168
NTDB id 1292 VP RS12235 WP 005479693.1	WSCLPTAPAIIV.....DGCS.....	139
NTDB id 1007 ACIAD RS15000 WP 004923844.1	WSKAAT.....ACSLSSNSTWDGR.....	144
NTDB id 1005 ACIAD RS03200 WP 004922618.1	YYCSEKTANKKLVLSRMGH.....I.RHEQVNDCTL.....	172
NTDB id 1064 ABD1 RS15725 WP 001046490.1	WQ.....	160
NTDB id 1424 RS RS02795 WP 011000517.1	WTCYAQNKAQAA..SSVA...PS...GTMSLAAKYAPAE CR.....	168
NTDB id 1400 DSB67 RS12660 WP 010643261.1	WSSECK.....D....ATNAVQTSYCP.....	154
NTDB id 1119 NGFG RS11465 WP 017147169.1	WFCGQPVTRADD..DTVAD..AK....DGKEIDTKHLPSTCRDKASDAK.....	166
NTDB id 1109 OK783 RS10670 WP 157147416.1	WFCGQPVTRTGD..NDDTV..AD....ANNAIDTKHLPSTCRDESSAT.....	164
NTDB id 1188 NELON RS01755 WP 003772458.1	WACASAAKETAD..KRFGTGSGV....AVGTLPAKYAPSECK.....	188
NTDB id 1191 AAC28468.1 484..945()	WTCAPGAANGIE.....TRRLPTS CQ*.....	153
NTDB id 1309 DR RS02825 WP 034349477.1	FDGAKM....GE.....GTGATGAC TFSTSTGTGTGTGTGTGTGTGTGSN	158
NTDB id 379380 GmarT RS29315 WP 155367955.1		37
NTDB id 1204 PSJM300 03935 AFN76865.1	WDCTSD....LD.....SRYKPGKCL.....	141
NTDB id 1197 PSJM300 03940 AFN76866.1	WSCAST....LD.....AKYKPGKCS.....	139
consensus	* * *	

 non conserved
 similar
 $\geq 50\%$ conserved