

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	I V E I Y G P E S S G K T T V A L H A V A A V Q K E G G I A A F I D A E H A L D P E Y A K A L G V N I D E L L S Q P D Y G E Q G L Q I A E K L I T S G A V D L	154
NTDB id 269 KZH43 RS08665 WP 001085462.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 228 SPD RS09265 WP 001085462.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 194 SPR RS08825 WP 001085462.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 159 SP RS09750 WP 001085462.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 499 SM12261 RS08315 WP 078228268.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 453 Spy49 1753c ACI62003.1	I I E I Y G P E S S G K T T V A L H A V A A Q A Q K E G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L A Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 408 SMU RS09530 WP 002262392.1	I V E I Y G P E S S G K T T V A L H A V A A Q A Q K D G G I A A F I D A E H A L D P A Y A A A L G V N I D E L L S Q P D S G E Q G L E I A G K L I D S G A V D L	153
NTDB id 625 LCA RS02525 WP 011374196.1	I V E I Y G P E S S G K T T V A L H A V A E V Q K Q G G T A A Y I D A E N A M D P K Y A T A L G V N I D D L L S Q P D T G E Q G L E I A D A L V S S G A V D I	140
NTDB id 1092945 ACMGE9 RS00450 WP 414043296.1	I I E I Y G P E S S G K T T V A L H A I A E V Q K Q G G I A A F I D A E H A L D P V Y A Q K L G V D I D N L Y L S Q P D H G E Q G L E I A E A F V R S G A V D I	138
NTDB id 115 BSU 16940 NP 389576.2	I I E V Y G P E S S G K T T V A L H A I A E V Q Q Q G G Q A A F I D A E H A L D P V Y A Q K L G V N I E E L L S Q P D T G E Q A L E I A E A L V R S G A V D I	138
NTDB id 1313 DR RS12030 WP 010888966.1	I T E I Y G P E S G K T T L A L A I V A Q A Q K A G G T C A F I D A E H A L D P V Y A R A L G V N T D E L L V S Q P D N G E Q A L E I M E L L V R S G A I D V	152
NTDB id 1245 Cj1673c YP 002345041.1	I I E I Y G P E S S G K T T L T L H I I A E C Q K A G G V C A F I D A E H A L D V K Y A K N L G V N T D D L Y V S Q P D F G E Q A L E I V E T I A R S G A V D L	139
NTDB id 1214 NCTC11637 00359 SQJ03206.1	I I E I Y G P E S S G K T T L S L H I I A E C Q K N G G V C A F I D A E H A L D V H Y A K R L G V D T E N L L V S Q P D T G E Q A L E I L E T I T R S G G I D L	141
NTDB id 1211 C694 RS00795 WP 000963128.1	I I E I Y G P E S S G K T T L S L H I I A E C Q K N G G V C A F I D A E H A L D V H Y A K R L G V D T E N L L V S Q P D T G E Q A L E I L E T I T R S G G I D L	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	I V E I Y G P E S S G K T T L T L H A I A E A Q K V G G T A A F I D A E H A F D M H Y A E K L G I N L E E L I V S Q P D N G E Q A L E I A D S L T R S G G V D I	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I V E I Y G P E S S G K T T L T L S L I A Q A Q K G N K T C A F I D A E H A L D P V Y A R N L G V N T D E L L S Q P D N G E Q A L E I C D A L V R S G A V D V	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	I V E I F G P E S S G K T T L C L E A V A Q C Q K N G G V C A F V D A E H A F D P V Y A R K L G V K V E E L Y L S Q P D T G E Q A L E I C D T L V R S G G I D M	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	I V E I F G P E S S G K T T L C L E A V A Q C Q K N G G V C A F V D A E H A F D P V Y A R K L G V K V E E L Y L S Q P D T G E Q A L E I C D T L V R S G G I D M	140
NTDB id 1123 OK783 RS03845 WP 003688695.1	I V E I F G P E S S G K T T L C L E A V A Q C Q K N G G V C A F V D A E H A F D P V Y A R K L G V K V E E L Y L S Q P D T G E Q A L E I C D T L V R S G G I D M	140
NTDB id 1427 RS RS02760 WP 011000510.1	V V E I Y G P E S S G K T T L T L Q V V A E M Q K L G G T C A F I D A E H A L D V T Y A D K L G V K V P D L I S Q P D T G E Q A L E I A D A L V R S G S V D L	148
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I V E I F G P E S S G K T T L T L E L I A A A Q R E G K T C A F I D A E H A L D P V Y A K K L G V N I D E L L V S Q P D T G E Q A L E I C D A L A R S G A V D V	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I V E I F G P E S S G K T T L T L E L I A A A Q R E G K T C A F I D A E H A L D P V Y A K K L G V N I D E L L V S Q P D T G E Q A L E I C D A L A R S G A V D V	139
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I V E I Y G P E S S G K T T M T L Q A I A Q C Q K A G G T C A F I D A E H A L D P Q Y A R K L G V D I D N L L V S Q P D H G E Q A L E I A D M L V R S G A I D L	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I I E I Y G P E S S G K T T M T L Q A I A Q C Q K S G G T C A F I D A E H A L D P Q Y A R K L G V D I D N L L V S Q P D N G E Q A L E I A D M L V R S G A I D L	139
NTDB id 1205 PSJM300 05545 AFN77183.1	I V E I Y G P E S S G K T T L T L S V I A A A Q R M G S T C A F V D A E H A L D P D Y A G K L G V N V D D L L V S Q P D T G E Q A L E I T D M L V R S N A V D V	139
consensus	**!*!!!!!!*!!!!* ! **! !* ** !*!!!!!!*!! !!!!!*!!!!*!! !!!!!*!!!!*!! *!!!!*!!!!*	

logo



NTDB id 600	KW2	RS01765	WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	FDEIDHKVRAAHG	LDDSEVAETE	EETTAS	KTKAKAKKEEKAV	ETEEIELELED	.....	387				
NTDB id 269	KZH43	RS08665	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QDTENKKDE	...PKKEEA	..VNEEVPLDLG	DELEIE	385			
NTDB id 228	SPD	RS09265	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QDTENKKDE	...PKKEEA	..VNEEVPLDLG	DELEIE	385			
NTDB id 194	SPR	RS08825	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QDTENKKDE	...PKKEEA	..VNEEVPLDLG	DELEIE	385			
NTDB id 159	SP	RS09750	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QDTENKKDE	...PKKEEA	..VNEEVPLDLG	DELEIE	385			
NTDB id 499	SM12261	RS08315	WP 078228268.1	DEKIGQGS	ENAKKYLADN	PEIF	FDEIDHQV	RVVQFGL	IDGEEIAES	...KKDE	...AAQVDS	..VNEEVTL	DLGDELEIE	381		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	DEKIGQGS	ENAKKYLADN	PEVFA	EIDHQV	RVVQFGL	IDGEEAAES	...KKDE	...VAQVDS	..VNEEVTL	DLGDELEIE	381		
NTDB id 453	Spy49	1753c	ACI62003.1	GEKIGQGS	ENAKRYLADHP	QLF	DEIDR	KV	RVKFG	LLEESEES	EAMAVASE	.....E	.....TDDLAL	DLN	NGIEIE	377
NTDB id 408	SMU	RS09530	WP 002262392.1	GEKIGQGS	ENAKKFLADN	PEIF	DDIDHKV	RVQYGL	IEEDNTEEK	QSSKEK	.....ETDEK	..ADKNLV	LELD	TIELE	382	
NTDB id 625	LCA	RS02525	WP 011374196.1	SERIGQGR	ENAKNYLADH	EDVE	DEVRLK	VRAAYG	ISDVPEED	LPTTEDEQ	.IN	.....	.....ILPDD	STEE	355	
NTDB id 1092945	ACMGE9	RS00450	WP 414043296.1	GERIGQGR	ENIKTYLREN	PEVR	DEIDV	KIRKAMG	IGEDKDA	QKVETP	VEPPVE	.....DLFDD	DELV	353		
NTDB id 115	BSU	16940	NP 389576.2	EERLGGGR	ENAKQFLKEN	KDIMLMI	QEQIREHY	GLDNN	GVVQQQA	EETQ	..EE	.....LEFEE	348			
NTDB id 1313	DR	RS12030	WP 010888966.1	DERIGQG	KEKTIAYIA	ERP	PEMEQE	IRDR	VMAAIR	AGNAGE	APALAPAPA	PEAAE	.....A	363		
NTDB id 1245	Cj1673c	YP 002345041.1	DKKLGQGR	ENSKAF	LKENPEI	ADEITKAI	QNSM	GIEGMI	...SG	SEDD	..EGE	.....E	343			
NTDB id 1214	NCTC11637	00359	SQJ03206.1	DKKLGQGR	ENAKALLK	EDKAL	ADEITL	KIKESI	GSNEEI	...MPLP	DE..PLE	.....EME	347			
NTDB id 1211	C694	RS00795	WP 000963128.1	DKKLGQGR	ENAKALLK	EDKAL	ADEITL	KIKESI	GSNEEI	...MPLP	DE..PLE	.....EME	347			
NTDB id 1334	RAOC	RS04870	WP 004918236.1	DTKLGQGR	DTVKEL	TKDNPEL	AEELEAK	IREKLQAK	.....	343						
NTDB id 1389	A4U84	RS07560	WP 021112712.1	GTKIGQG	KNNAVK	WLKENPEI	ADKLE	QEI	RNTLAS	NPNS	...VLKAT	ASDSND	.....ESD	VEEFSE	EEL	372
NTDB id 1130	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDNVRV	WLKENPEI	SDEI	DAKIR	ALNG	VEMHI	...TEGT	QDET	DGE	.....R	.....PEE	348
NTDB id 1124	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDNVRV	WLKENPEI	SDEI	DAKIR	ALNG	VEMHI	...TEGT	QDET	DGE	.....R	.....PEE	348
NTDB id 1123	OK783	RS03845	WP 003688695.1	GAKIGQG	KDNVRV	WLKENPEI	SDEI	DAKIR	ALNG	VEMHI	...TEGT	QDET	DGE	.....R	.....PEE	348
NTDB id 1427	RS	RS02760	WP 011000510.1	GERIGQGR	DNCR	REFLREN	AELARE	IENK	VREHLG	VTPMG	...AVTLA	..EEVEE	.....D	352		
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	GDKIGQG	KANACK	YLKENPEI	AKTLD	KKLRE	MLLNPENM	...QLIA	ETSSA	AD	.....DVE	FGAVPE	EF	354
NTDB id 1142	GTF74	RS11550	WP 000344154.1	GDKIGQG	KANACK	YLKENPEI	AKTLD	KKLRE	MLLNPENM	...QLIA	ETSSA	AD	.....DVE	FGAVPE	EF	354
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	GNKIGQG	KNNVIR	YLEENP	QISTE	IEAV	IREQLL	TKASD	...QTAA	..HDETEE	.....EPD	LL..ES	349	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	GNKIGQG	KNNVIR	YFEEN	NQIAE	EIERN	IREQLL	TTGTN	...GAVQ	..I	..EDEE	.....EPD	LL..LES	349
NTDB id 1205	PSJM300	05545	AFN77183.1	GSKIGQG	KANAAK	YLEENPEI	GQIE	IEQQ	IRAKLL	VTSAN	...TKATP	VAEDLA	.....DADI	347		
consensus				**!!!	*****	**	*****	*****	**	**					*	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 1092945 ACMGE9 RS00450 WP 414043296.1	...	353
NTDB id 115 BSU 16940 NP 389576.2	...	348
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

consensus

 non conserved
 similar
 ≥ 50% conserved