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NTDB id 256701 CV702 RS01700 WP 017864113.1	DEKIGQGA	EKAKNYLKEHQE	IFDEIDHKVRAAHG	LDEAEVAETTEDPSTKAKATKAKKKEEKVVETE	EIELELED	387		
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQD	VFDEIDHKVRAAHG	LDDSEVAETEETETASKTKAKAKKKEEKAVETE	EIELELED	. . . . .	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEI	FDKQVRSKFG	LIDGEEVSEQDTEENKKDEPK	. . . . .	KEEAV..NEEVPLDLGDELEIE	385	
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEI	FDKQVRSKFG	LIDGEEVSEQDTEENKKDEPK	. . . . .	KEEAV..NEEVPLDLGDELEIE	385	
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEI	FDKQVRSKFG	LIDGEEVSEQDTEENKKDEPK	. . . . .	KEEAV..NEEVPLDLGDELEIE	385	
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEI	FDKQVRSKFG	LIDGEEVSEQDTEENKKDEPK	. . . . .	KEEAV..NEEVPLDLGDELEIE	385	
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAENPEI	FDHQRVQVQF	LIDGEEIAES	. . . . .	KKDEAA...QVDSV..NEEVTLDLGDLEIE	381	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAENPEV	FAIDHQRVQVQF	LIDGEEAAES	. . . . .	KKDEVA...QVDSV..NEEVTLDLGDLEIE	381	
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEI	FDIDHKVVRVQY	GLIEEDNTEEKQSSKEK	. . . . .	E...TDEKA..DKNLVLELDDTIELE	382	
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQL	FDIDRKRVRVQF	GLLEESEEEESAMAVASE	. . . . .	E.....TDDLALDLNGIEIE	377	
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHED	VEDEVRLKVRVQY	GISDVPPEEDLPTTEDE	. QINI	. . . . .LPDDSTEE	355	
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGR	ENAKQFLKENKDI	MLMIQEQTREHY	GLDNNGVVQQAEETQEELEF	. . . . .	E.E.....	348	
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIAERP	PEMEQEIRDRVMAA	IRAGNAGEAPALAPAPAAPEAA	. . . . .	EA.....	363	
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGR	ENSKAFLKENPEI	ADEITKAIQNSMG	TEGMI	. . . . .	SGSEDD..EG.....	343	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLTKESIGS	NEEI	. . . . .	MPLPDE..PL.....EEME	347	
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLTKESIGS	NEEI	. . . . .	MPLPDE..PL.....EEME	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTVKEIKDNPEI	AEELEAKIREKLQAK	. . . . .	. . . . .	. . . . .	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NAVVKLKENPEI	ADKLEQEIRNTLAS	NSPNS	. . . . .	VLKATASDSN.....DES	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	. . . . .	TEGTQDETDG.....ER.....PEE	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	. . . . .	TEGTQDETDG.....ER.....PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGD	NVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	. . . . .	TEGTQDETDG.....ER.....PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVRHLGV	TPMG	. . . . .	AVTLA.EEVE.....ED.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGN	ANACKYLKENPEI	AKTLDKKLREMLLN	PENM	. . . . .	QLIAETSSAA.....DDVE	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGN	ANACKYLKENPEI	AKTLDKKLREMLLN	PENM	. . . . .	QLIAETSSAA.....DDVE	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGN	NVIRYLEENPQI	STEIEAVIREQLL	TKASD	. . . . .	QTAA.HDETE.....EEDLL..ES	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGN	NVIRYFEENNQIA	EIEIRNIREQLL	TTGTN	. . . . .	GAVQ.I.EDE.....EEDLL..LES	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGN	ANAACKYLEENPEI	IGQIEIQQLRAKLL	VTSAN	TKATPVAEDL.....ADADI	347		
consensus	***!!!	*****	**	*	***	****	**	**	*

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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 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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NTDB id 1211 C694 RS00795 WP 000963128.1	...	347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
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consensus

 non conserved
 similar
 ≥ 50% conserved