

logo

NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
NTDB id 153 SP RS04730 WP 000387344.1	.....	0
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....	0
NTDB id 222 SPD RS04535 WP 000387330.1	.....	0
NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
NTDB id 20 SA RS08005 WP 001802022.1	.....	0
NTDB id 36 MW RS08230 WP 001793467.1	.....	0
NTDB id 300 STER RS07485 WP 011681496.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 1416 SGL RS14595 WP 010873643.1	.....	0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
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NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
consensus	.....	0

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80

logo

NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
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NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
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NTDB id 36 MW RS08230 WP 001793467.1	.....	0
NTDB id 300 STER RS07485 WP 011681496.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	.....	0
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NTDB id 1416 SGL RS14595 WP 010873643.1	NFEQIILEQIDQAQSTIDLAVQELRLPRIAQUALVEKQKTGVRVRLVLENTYNQTIKEAVETEKDPFRYRGPLAYLDQNQD	160
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
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NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
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NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
consensus	.....	0

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NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
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NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
NTDB id 20 SA RS08005 WP 001802022.1	.....	0
NTDB id 36 MW RS08230 WP 001793467.1	.....	0
NTDB id 300 STER RS07485 WP 011681496.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	.....	0
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NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
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NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
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NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
consensus	.....	0

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NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
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NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
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NTDB id 300 STER RS07485 WP 011681496.1	.....MVLlyQFLL.....	9
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NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
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NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
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NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
consensus	.....	0

logo

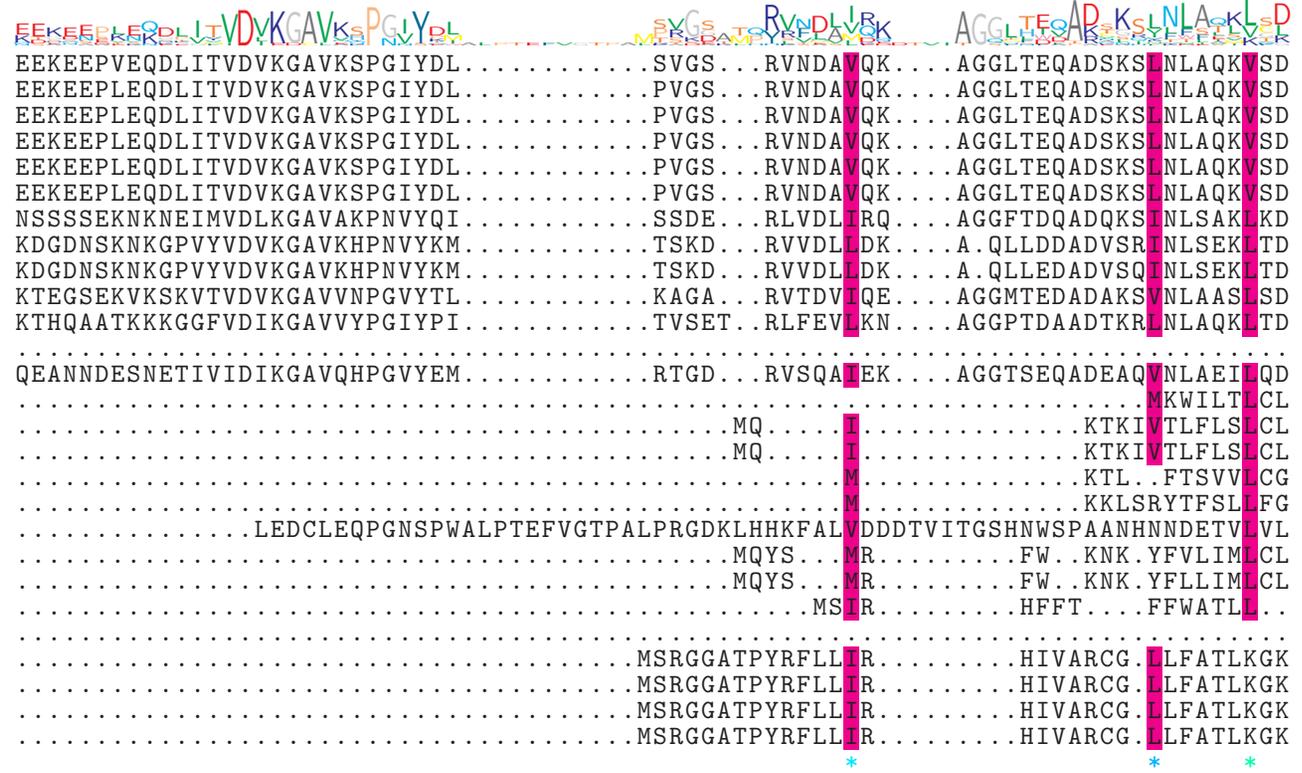
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NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....MESIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDSST.....EKDVKK	62
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....MEAIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDSST.....EKEVKK	62
NTDB id 153 SP RS04730 WP 000387344.1	.....MEAIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDSST.....EKEVKK	62
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....MEAIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDLVS.....EKEVVK	62
NTDB id 222 SPD RS04535 WP 000387330.1	.....MEAIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDLVS.....EKEVVK	62
NTDB id 188 SPR RS04295 WP 000387330.1	.....MEAIIEKIKEYK...IIVICTGLGLLVGGFFLLKPAHPVVKETNLQAEVVAISKDLVS.....EKEVVK	62
NTDB id 595 KW2 RS08725 WP 021037687.1	.....MEKILDK...LKEYWKIMLLVVCALIAAGGIFYIFTNSPKPAETLS...VENLSSSSSTK.S.....SVSKF	58
NTDB id 20 SA RS08005 WP 001802022.1	.....RYKDFLTQWKL...YIISAVVLIMVLIGFIFWRQDDYTSRNFENKD...TALKQSTSENNLSK.LEDVQV	73
NTDB id 36 MW RS08230 WP 001793467.1	.....RYKDFLTQWKL...YIISAVVLIMVLIGFIFWRQDDYTSRNFENKD...NALKQSTSENSLSK.VEDVQV	73
NTDB id 300 STER RS07485 WP 011681496.1	.....MKEKILAYVKDNRLF..VSVIAVLMVIFCFFLWMTCGAGNSMEAETSYPDVTALSTSSSKQSSQSLSEASSQS	71
NTDB id 613 LCA RS05340 WP 231952379.1	.....MMWQDYWQRYRRFWVPCLVLLGIIAGGFYWHQSQQKQKVTQNE.....QLLATSASK.....TKPATK	59
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	.....MNWLNQHKKAIILA.ASAAVFTAI...MIFLATGKNKEPVKQA.....VPTE..T.....ENTVVK	50
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
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NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
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NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0

consensus

logo

		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....SVGS...RVNDAVQK...AGGLTEQADSKSLNLAQKIVSD	123
NTDB id 521 SMSK321 RS04960 WP 000443804.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....PVGS...RVNDAVQK...AGGLTEQADSKSLNLAQKIVSD	123
NTDB id 493 SM12261 RS04300 WP 000387351.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....PVGS...RVNDAVQK...AGGLTEQADSKSLNLAQKIVSD	123
NTDB id 153 SP RS04730 WP 000387344.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....SSDE...RLVDLIRQ...AGGFTDQADQKSLNLSAKLKD	119
NTDB id 263 KZH43 RS04195 WP 000387330.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....TSKD...RVVDLIDK...AQLLDDADVSRINLSEKLT	133
NTDB id 222 SPD RS04535 WP 000387330.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....TSKD...RVVDLIDK...AQLLEDADVSRINLSEKLT	133
NTDB id 188 SPR RS04295 WP 000387330.1		EEKEEPLEQDLITVDVKGAVKSPGIYDL.....KAGA...RVTDVIVE...AGGMTEDADAKSVNLAASLSD	132
NTDB id 595 KW2 RS08725 WP 021037687.1		NSSSSEKNKNEIMVDLKGAVAKPNVYQI.....TVSET...RLFEVILKN...AGGPTDAADTKRLNLAQKIVSD	121
NTDB id 20 SA RS08005 WP 001802022.1		KDGDNSKNKGPVYVDVKGAVKHPNVYKM.....RTGD...RVSQAIEK...AGGTSEQADEAQVNLAELIQD	111
NTDB id 36 MW RS08230 WP 001793467.1		KDGDNSKNKGPVYVDVKGAVKHPNVYKM.....MQ.....I.....KTKIVTLFSLCL	16
NTDB id 300 STER RS07485 WP 011681496.1		KTEGSEKVKSKVTVDVKGAVVNPVYTL.....MQ.....I.....KTKIVTLFSLCL	16
NTDB id 613 LCA RS05340 WP 231952379.1		KTHQAATKKKGGFVDIKGAVVYPI.....M.....KTL..FTSVVLCG	12
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1		.....M.....KTL..FTSVVLCG	12
NTDB id 105 BSU 25590 NP 390437.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1294 VP RS04495 WP 021449594.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1159 ABDM36 RS04765 WP 001166105.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1150 A1552VC RS08580 WP 001166105.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1362 HI 1008 AAC22669.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1382 A4U84 RS07375 WP 062924234.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1416 SGL RS14595 WP 010873643.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1069 ABD1 RS03060 WP 043960841.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1041 HON27 RS14740 WP 005124713.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1014 ACIAD RS13855 WP 004924483.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1242 Cj0011c YP 002343483.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1127 NGFG RS10560 WP 003703428.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1126 NGFG RS09375 WP 003703428.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1125 NGFG RS07215 WP 003703428.1		.....M.....KTL..FTSVVLCG	12
NTDB id 1108 NGFG RS06525 WP 003703428.1		.....M.....KTL..FTSVVLCG	12
consensus		.....M.....KTL..FTSVVLCG	12



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NTDB id 521 SMSK321 RS04960 WP 000443804.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	RAQDIIDHREANGKFKSVDELKQVSGIGAKTIEKLDYVTVD.....	216
NTDB id 595 KW2 RS08725 WP 021037687.1	KAQDIIDFRMKNQDFKSIDLQKQVSGFGDKTLEKLDKDEISID.....	218
NTDB id 20 SA RS08005 WP 001802022.1	KANAIVEYRNQQAQAFQEIIDLKQVSGFGSKTFDKLKSFTI.....	228
NTDB id 36 MW RS08230 WP 001793467.1	KANAIVEYRNQQAQAFQEIIDLKQVSGFGSKTFDKLKSFTI.....	228
NTDB id 300 STER RS07485 WP 011681496.1	RAEDVIAYRESHGGFQSVDDLKQVSGIGDKTLDKIRESLYVA.....	231
NTDB id 613 LCA RS05340 WP 231952379.1	KAEQIIAYRDEQGGFKQIEDLQKQVSGIGPKTFEQLQSQICVN.....	235
NTDB id 1100106 ACMS1Y RS12030 WP 415315998.1	KAEAITTYREEHGEFQQIEDLRNLSGFGKTIERLKSQTLTK.....	52
NTDB id 105 BSU 25590 NP 390437.1	KAEAITIAYREENGRFQTIEDITKQVSGIGKSFEEKSSITVK.....	205
NTDB id 1294 VP RS04495 WP 021449594.1	KAQSIVDYRTEHGPFKTAADLTNVKGIGEATIKKKNEDRILL.....	94
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	KAQAIVDYREANGPFTHIDDLTNVKGIGEATVRNNAARILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	KAQAIVDYREANGPFTHIDDLTNVKGIGEATVRNNAARILL.....	103
NTDB id 1362 HI 1008 AAC22669.1	KAEAITVQYREKHGNFXNAEQLLEVQGIGKATLEKNRDRIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	KAQAIVEYREKNGKFLNVEQLTEVSGIGKATLEKNRDRCIVIE.....	113
NTDB id 1416 SGL RS14595 WP 010873643.1	TAEKIISTREQ.KAFTSLEDLGRVKGIGPSKIEGLRGKVTW.....	553
NTDB id 1069 ABD1 RS03060 WP 043960841.1	KAQAIVEYRQKNGSFKNIDEIKNVKGIGPAIFEKNSRLAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	KAQAIVEYRQKNGSFKNIDEIKNVKGIGPAIFEKNSRLAL.....	136
NTDB id 1014 ACIAD RS13855 WP 004924483.1	KALAIVEYRQYQKFAFSVDDLQKQVSGIGPKFIEKNRDRLAI.....	128
NTDB id 1242 Cj0011c YP 002343483.1	KAKAILEYRKE.ANFTSIDDLKQVSGIGDKLFEKIKNDITIE.....	79
NTDB id 1127 NGFG RS10560 WP 003703428.1	KAKAIAEYRAQNGAFKSVDDLIKQVSGIGPAVLAKLKDQASVGAPAPKGPVLPVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	KAKAIAEYRAQNGAFKSVDDLIKQVSGIGPAVLAKLKDQASVGAPAPKGPVLPVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	KAKAIAEYRAQNGAFKSVDDLIKQVSGIGPAVLAKLKDQASVGAPAPKGPVLPVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	KAKAIAEYRAQNGAFKSVDDLIKQVSGIGPAVLAKLKDQASVGAPAPKGPVLPVKK	131
consensus	*! ****! ** ! ***** ** !! ***** ***	

non conserved  
 similar  
 ≥ 50% conserved