

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	M.CQNCNINEAT.....I	13
NTDB id 378 SMU RS02690 WP 002263569.1	M.CQNCKINEAT.....I	13
NTDB id 39958 N597 RS01985 WP 023022487.1	M.CQNCKINDST.....I	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 245 SPD RS03860 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 243 SPR RS03635 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 241 SP RS04015 WP 000882523.1	M.CQNCKINDST.....I	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTEAQQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEEYAHQYQYGTIESAHLLEAMATTSGSLAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
consensus	**.....*	*

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	HLYTSVNCQKKQIDLCQNCYQ...IMKSGTEALFGAGNASNGNSDEPFNPF.....NDIFSALQG.QDFNGAA...	78
NTDB id 378 SMU RS02690 WP 002263569.1	HLYANVNCQKKQIDLCQNCYQ...IMKTDPENGPLNHSQQNSSSINPF..F.....DFFFGDLNNFRAFNNQD...	77
NTDB id 39958 N597 RS01985 WP 023022487.1	HLYTNVNGHQQVQIDLCQNCYQ...IMKTDPNNSILAGLNQQRNGGRDPF.....EDFFNQLGNFQAP...Q...	73
NTDB id 281 KZH43 RS03550 WP 000882517.1	HLYTNLNGKQKQIDLCQNCYK...IKTDPNNSLEFKGMTDLNNRDFDPF.....GDDFNDLNNFRPSS..N...	74
NTDB id 245 SPD RS03860 WP 000882517.1	HLYTNLNGKQKQIDLCQNCYK...IKTDPNNSLEFKGMTDLNNRDFDPF.....GDDFNDLNNFRPSS..N...	74
NTDB id 243 SPR RS03635 WP 000882517.1	HLYTNLNGKQKQIDLCQNCYK...IKTDPNNSLEFKGMTDLNNRDFDPF.....GDDFNDLNNFRPSS..N...	74
NTDB id 241 SP RS04015 WP 000882523.1	HLYTNLNGKQKQIDLCQNCYK...IKTDPNNSLEFKGMTDLNNRDFDPF.....GDDFNDLNNFRPSS..N...	74
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILLGLIREGEVGAARVLNNLGVSLNKARQQVLQL.....LCSNET....	147
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAFEVMTAASFLAIHNNSEAVCTEHLIYALIQVEDGFGLQLLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLVAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MILEQSHALKRTLAEAAAISQVTHAKEVCTEHLVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVTERYACFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DIRAQSPALEAMQEAGQIASVTGAVEVGEHVLMAFLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DIRAQSPALEAMQEAGQIASVTGAVEVGEHVLMAFLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus	* * * * * * * * * * * *	* * * *

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	..SNQTPPTQTGG.....RGP RPQNPRAKQPKGML EEFGINLTESARRGEIDPVIGRDEEIKRVIEILNRRTKNN	147
NTDB id 378 SMU RS02690 WP 002263569.1	..LPNTPPTQAGGNGNGGN.....NRRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIEILNRRTKNN	154
NTDB id 39958 N597 RS01985 WP 023022487.1	..EPQTPPTQSGGGYGGNGGYGQNGNGRATGPNRPQAKQPKGLLEEFGINVTEIARRGDI DPVIGRDEEILRVIEILNRRTKNN	156
NTDB id 281 KZH43 RS03550 WP 000882517.1	..TPPIPTQSGGGYGGNGGYGSQNRGSAQTPP....PSQEKGLLEEFGINVTEIARRGDI DPVIGRDEEILRVIEILNRRTKNN	153
NTDB id 245 SPD RS03860 WP 000882517.1	..TPPIPTQSGGGYGGNGGYGSQNRGSAQTPP....PSQEKGLLEEFGINVTEIARRGDI DPVIGRDEEILRVIEILNRRTKNN	153
NTDB id 243 SPR RS03635 WP 000882517.1	..TPPIPTQSGGGYGGNGGYGSQNRGSAQTPP....PSQEKGLLEEFGINVTEIARRGDI DPVIGRDEEILRVIEILNRRTKNN	153
NTDB id 241 SP RS04015 WP 000882523.1	..TPPIPTQSGGGYGGNGGYGSQNRGSAQTPP....PSQEKGLLEEFGINVTEIARRGDI DPVIGRDEEILRVIEILNRRTKNN	153
NTDB id 85 BSU 00860 NP 387967.1	GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIEVL SRRTKNN	203
NTDB id 610 V4T04 RS10165 WP 012897346.1	AVTPMSKRKMAKG.....VAENSTPTLDSVSSDLTEEARLGKIDPMIGREAEIDRLIHILSRRTKNN	216
NTDB id 290 KZH43 RS10025 WP 001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPQTSPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMQILSRKTNN	229
NTDB id 289 SPD RS10700 WP 001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPQTSPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMQILSRKTNN	229
NTDB id 287 SP RS11210 WP 001109712.1	.LRQRHRTV.ADK.....QNSMANMMGMPQTSPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMQILSRKTNN	229
NTDB id 377 SMU RS09275 WP 002262344.1	.IFEMRKPKKVKN.....SSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMVQILSRKTNN	233
NTDB id 297 STER RS00545 WP 011680614.1	.IHDLRKPKKSKA.....SANFANMMQPPSSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMQIVLSRKTNN	236
NTDB id 329 STU RS10020 WP 011225298.1	.IHDLRKPKKSKA.....SANFANMMQPPSSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMQIVLSRKTNN	236
consensus	* * ** * !*** * !*!* * * **!*!!!!*!!!! !* * !*!!!!	

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPQKIQNKEVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEIHEIVGAG	232
NTDB id 378 SMU RS02690 WP 002263569.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPQKIHGKNVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRQRQDVILFIDEIHEIVGAG	239
NTDB id 39958 N597 RS01985 WP 023022487.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPYKIQDKEVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRRRREDVILFIDEIHEIVGAG	241
NTDB id 281 KZH43 RS03550 WP 000882517.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPKHLQGGKQVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRKREDIILFIDEIHEIVGAG	238
NTDB id 245 SPD RS03860 WP 000882517.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPKHLQGGKQVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRKREDIILFIDEIHEIVGAG	238
NTDB id 243 SPR RS03635 WP 000882517.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPKHLQGGKQVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRKREDIILFIDEIHEIVGAG	238
NTDB id 241 SP RS04015 WP 000882523.1	PVLIGEPGVGKTAIVEGLAQKIVDGDVPKHLQGGKQVIRLDVVSIVQGTGIRGQFEERMQKLMDEIRKREDIILFIDEIHEIVGAG	238
NTDB id 85 BSU 00860 NP 387967.1	PVLIGEPGVGKTAIAEGLAQKINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAGNIILFIDELHTLIGAG	288
NTDB id 610 V4T04 RS10165 WP 012897346.1	PVLIGEPGVGKSAIEGLAQKIVNQVPIGLMNSRIMATNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDVIIFIDELHTTIIGAG	301
NTDB id 290 KZH43 RS10025 WP 001109677.1	PVLIGDAGVGKTAIALGLAQRIASGDVPAEMAKMRVIELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSG	314
NTDB id 289 SPD RS10700 WP 001109677.1	PVLIGDAGVGKTAIALGLAQRIASGDVPAEMAKMRVIELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSG	314
NTDB id 287 SP RS11210 WP 001109712.1	PVLIGDAGVGKTAIALGLAQRIASGDVPAEMAKMRVIELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSG	314
NTDB id 377 SMU RS09275 WP 002262344.1	PVLIGDAGVGKTAIAYGLAQRIVDSAVPFELADMKVIELDMMSVVAGTRFRGDFEERMNQIADIEADGHIIVLFIDELHTIMGSG	318
NTDB id 297 STER RS00545 WP 011680614.1	PVLIGDAGVGKTAIALGLAQRIASGEVPFELADMRIELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKIILFIDELHTIIGSG	321
NTDB id 329 STU RS10020 WP 011225298.1	PVLIGDAGVGKTAIALGLAQRIASGEVPFELADMRIELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKIILFIDELHTIIGSG	321
consensus	!!!*!*!!!!*! * *!!!!*! * **!! * ** !**** * !!! !!!*!* * ***** **!*!!!!*! *!*!*!	

logo

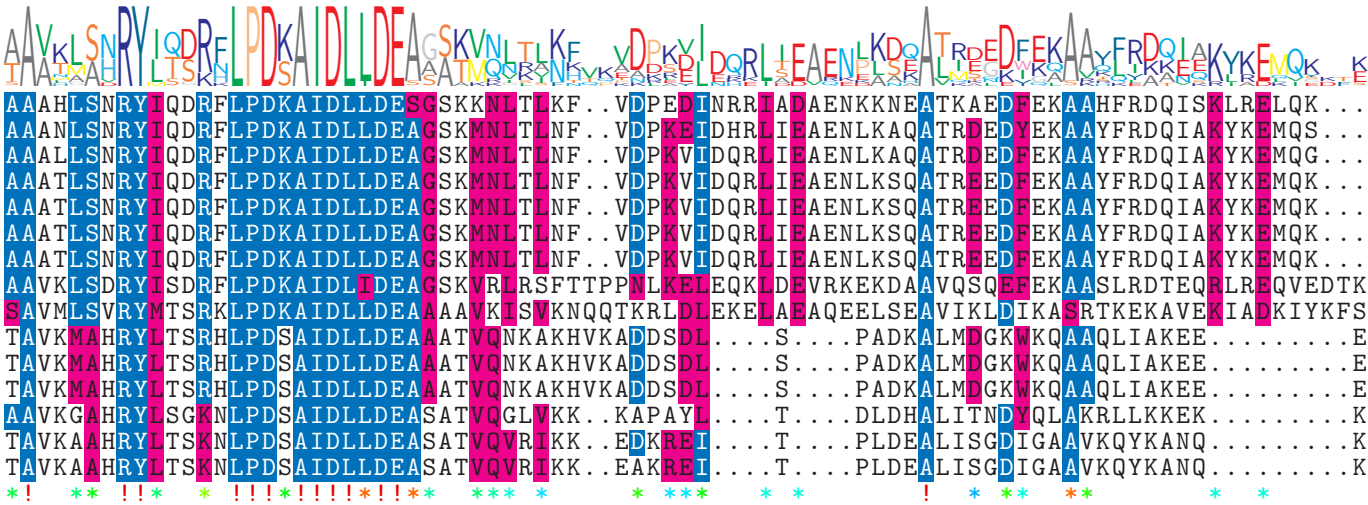
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 39958 N597 RS01985 WP 023022487.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



316
323
325
322
322
322
322
372
386
399
399
399
403
406
406

logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 39958 N597 RS01985 WP 023022487.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



396
403
405
402
402
402
402
457
471
467
467
467
469
472
472

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	DKIV	I	S	N	Q	T	Q	E	T	T	D	E	E	V	P	A	E		748		
NTDB id 378 SMU RS02690 WP 002263569.1	NGKIV	I	K	A	S	N	K	V	E	T	V	T	.	.	K	A	T	S	D	.	753
NTDB id 39958 N597 RS01985 WP 023022487.1	NGNIS	I	K	G	K	T	K	P	A	N	E	A	.	.	E	K	V	T	E	.	755
NTDB id 281 KZH43 RS03550 WP 000882517.1	KGNIQ	I	K	S	A	K	K	A	E	V	K	S	.	.	S	E	K	E	K	.	752
NTDB id 245 SPD RS03860 WP 000882517.1	KGNIQ	I	K	S	A	K	K	A	E	V	K	S	.	.	S	E	K	E	K	.	752
NTDB id 243 SPR RS03635 WP 000882517.1	KGNIQ	I	K	S	A	K	K	A	E	V	K	S	.	.	S	E	K	E	K	.	752
NTDB id 241 SP RS04015 WP 000882523.1	KGNIQ	I	K	S	A	K	K	A	E	V	K	S	.	.	S	E	K	E	K	.	752
NTDB id 85 BSU 00860 NP 387967.1	DGEFV	V	K	T	T	A	K	T	N	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	NKKIK	I	A	Q	I	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	AGQLK	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 289 SPD RS10700 WP 001109677.1	AGQLK	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 287 SP RS11210 WP 001109712.1	AGQLK	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 377 SMU RS09275 WP 002262344.1	KEKLK	F	D	I	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	813
NTDB id 297 STER RS00545 WP 011680614.1	KDKLT	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	816
NTDB id 329 STU RS10020 WP 011225298.1	KDKLT	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	816
consensus	*	*	*																		

-  non conserved
-  similar
-  ≥ 50% conserved