

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	M CQNCNINEA.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	M CQNCNINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	M CQNCNINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	M CQNCNINDS.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	M CQNCNINDS.....TI	13
NTDB id 140387 RDF RS02855 WP 000882549.1	M CQNCNINDS.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	M CQNCNINEA.....TI	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTEAQQKVLALAQEEALRLGHNNIGTEHILLGLVREGEITAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPTLDRILEKAEYYAHQYQYGTIESAHLAAATTSGSLAYSLLAGMNVDSDDLIDL.....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	...MTDYSLSKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSAYLTFDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSAYLTFDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
consensus	**.....*	**

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	HL YTSVNCQKQIDLCQNCYQI...MKS GTEALFGAGNASNGNSDEPF.....NPFNDIFSALQG.QDFNGAASNQ	81
NTDB id 281 KZH43 RS03550 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYKI...KTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 245 SPD RS03860 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYKI...KTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 243 SPR RS03635 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYKI...KTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 241 SP RS04015 WP 000882523.1	HL YTNLNGKQKQIDLCQNCYKI...KTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 140387 RDF RS02855 WP 000882549.1	HL YTNVNGKQKQIDLCQNCYQI...KTDPNNSLFSGLNHVSHAPGGTN.....PFFDDFFGD LNNFRAFNGQDLPN	82
NTDB id 378 SMU RS02690 WP 002263569.1	HL YANVNGQKQIDLCQNCYQI...MKTDPENGPLNHSQ..QNSSSN.....PFFDDFFGD LNNFRAFNNQDLPN	80
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKVVIELSMDEARKLGHSYVCTEHLILGLIREGEVAAARVLNNLGVSLNKARQQVLQL.....LCSNET....	147
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAFEVMTAASFLAIHNNSEAVCTEHLIYALIQVEDGFGLQLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASV VHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASV VHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDEAEYVASV VHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MLEQSHALKITLAEAAAISQVTHAKEVCTEHLVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DLRAGSPALEAMQEAGQIASVTGAVEVGEHVLMAFLLHKDLMVCRILEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DLRAGSPALEAMQEAGQIASVTGAVEVGEHVLMAFLLHKDLMVCRILEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus	* * * * * * * * * * * * * * *	* * * *

NTDB id 601 KW2 RS02615 WP 021036805.1	TPPTQTGGRG.....PRGPQNPRAKQPKGMLLEFGIN	ITESARRGEIDPVIGRDEETKRVIEILNRRTKNNPVL	I	151
NTDB id 281 KZH43 RS03550 WP 000882517.1	IPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKG	LLEFGINVTEIARRGIDDPVIGRDEEIRVIEILNRRTKNNPVL	I	157
NTDB id 245 SPD RS03860 WP 000882517.1	IPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKG	LLEFGINVTEIARRGIDDPVIGRDEEIRVIEILNRRTKNNPVL	I	157
NTDB id 243 SPR RS03635 WP 000882517.1	IPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKG	LLEFGINVTEIARRGIDDPVIGRDEEIRVIEILNRRTKNNPVL	I	157
NTDB id 241 SP RS04015 WP 000882523.1	IPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKG	LLEFGINVTEIARRGIDDPVIGRDEEIRVIEILNRRTKNNPVL	I	157
NTDB id 140387 RDF RS02855 WP 000882549.1	TPPTQSGGNGNGNGNGRNNN.RNQATPSQAKG	LLEFGINVTEIARRHGDIDPVIGRDEEIRVIEILNRRTKNNPVL	I	161
NTDB id 378 SMU RS02690 WP 002263569.1	TPPTQAGCGNGNGGNNRRPG..GPQQQASQKPN	GLEFGINLTDIARKGEIDPVIGRDEEITRVIEILNRRTKNNPVL	I	158
NTDB id 85 BSU 00860 NP 387967.1	GSSAAGTNSNANTPTLDSLARDLTAIAKEDS	LDPVIGRSKEIQRVIEILSRRTKNNPVL	I	207
NTDB id 610 V4T04 RS10165 WP 012897346.1	AVTPMSKRKMAKG.....VAENSTTPTLDSVSSD	LTEEARLGKLDPMIGREAEDRLIHILSRRTKNNPVL	V	220
NTDB id 290 KZH43 RS10025 WP 001109677.1	.LRQRHRTV.ADKQ.....NSMANMMGMPQTSPG	LEDYTHDLTEQARSCKLEPVIGRDKAISRMQILSRKTNNPVL	V	233
NTDB id 289 SPD RS10700 WP 001109677.1	.LRQRHRTV.ADKQ.....NSMANMMGMPQTSPG	LEDYTHDLTEQARSCKLEPVIGRDKAISRMQILSRKTNNPVL	V	233
NTDB id 287 SP RS11210 WP 001109712.1	.LRQRHRTV.ADKQ.....NSMANMMGMPQTSPG	LEDYTHDLTEQARSCKLEPVIGRDKAISRMQILSRKTNNPVL	V	233
NTDB id 377 SMU RS09275 WP 002262344.1	.IFEMRKPKKVKNS.....SSFSDLMKPP.SVT	GELADFTRLTELARQGRLEPVIGREQEISRMVQILSRKTNNPVL	V	237
NTDB id 329 STER RS00545 WP 011680614.1	.IHDLRKPKKSKAS.....ANFANMMQPPQSST	GELADYTKDLTALAESGNLDPVIGRDEEISRMQVLSRKTNNPVL	V	240
NTDB id 327 STU RS10020 WP 011225298.1	.IHDLRKPKKSKAS.....ANFANMMQPPQSST	GELADYTKDLTALAESGNLDPVIGRDEEISRMQVLSRKTNNPVL	V	240
consensus	* * * * *	* ! * * * * * * ! * * * * ! * ! * ! * ! * ! * ! *		

[illegible]

logo

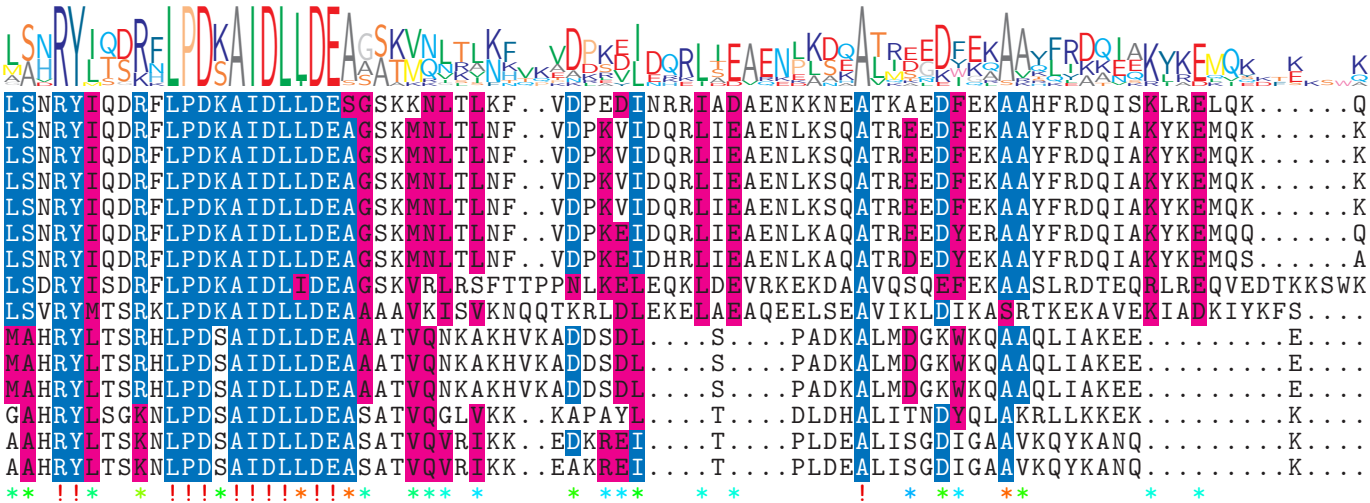
NTDB id	601	KW2	RS02615	WP	021036805.1
NTDB id	281	KZH43	RS03550	WP	000882517.1
NTDB id	245	SPD	RS03860	WP	000882517.1
NTDB id	243	SPR	RS03635	WP	000882517.1
NTDB id	241	SP	RS04015	WP	000882523.1
NTDB id	140387	RDF	RS02855	WP	000882549.1
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	85	BSU	00860	NP	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					



320
326
326
326
326
330
327
376
390
403
403
403
407
410
410

logo

NTDB id	601	KW2	RS02615	WP	021036805.1
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	140387	RDF	RS02855	WP	000882549.1
NTDB id	378	SMU	RS02690	WP	002263569.1
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					



397
403
403
403
403
407
404
461
471
467
467
467
469
472
472

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPTITTEKDTEQIVIEQKTTQIPVGDLEKEEQTTQLINLADDLKAHVIGQDEAVDKITSKAIRRSRVGLGKPNRPIGSFLFVGP	482
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTPITIESEKTEHIIIEQKTNIPVGDLEKEEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRNRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTPITIESEKTEHIIIEQKTNIPVGDLEKEEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRNRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTPITIESEKTEHIIIEQKTNIPVGDLEKEEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRNRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKTEHIIIEQKTNIPVGDLEKEEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRNRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 140387 RDF RS02855 WP 000882549.1	KVDDQDTPITIEKTEHIIIEEKTNIPVGDLEKEEQSQLINLADDLKQHVIGQDDAVVKIAKAIRNRNRVGLGSPNRPIGSFLFVGP	492
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKNIEVIVEQKTNIPVGELEKEEQSQLIHLADDLKTRVIGQDDAVDKIAKAIRNRNRVGLGTPNRPIGSFLFVGP	489
NTDB id 85 BSU 00860 NP 387967.1	EKQQGENSEVTVDITAMVVSSWTGVPVSKIAQTETDKLINMENILHSRVIGQDEAVVAKAARRARAGLKDPKRPIGSFIFLGP	546
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVITDQAVAVASTLTGVPITQMTKSESDRLINLEKELHKRVVGQEEATSAVSRAIRRARSGVADSRRPMGSFMFLGP	555
NTDB id 290 KZH43 RS10025 WP 001109677.1	VVPV.YKDLVLTESDILTTISRLSGIPVQKLTQTDAKKYNLEAEHLHKRVIGQDQAVSSISRRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 289 SPD RS10700 WP 001109677.1	VVPV.YKDLVLTESDILTTISRLSGIPVQKLTQTDAKKYNLEAEHLHKRVIGQDQAVSSISRRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 287 SP RS11210 WP 001109712.1	VVPV.YKDLVLTESDILTTISRLSGIPVQKLTQTDAKKYNLEAEHLHKRVIGQDQAVSSISRRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 377 SMU RS09275 WP 002262344.1	.PLLKKRAEVKEEDILATISKLSGIPVKKLTQADSKKYNLERELHKRVIGQDDAVSSISRRAIRRNQSGIRVKGKRPIGSFMFLGP	553
NTDB id 297 STER RS00545 WP 011680614.1	.AKFPKPALVDADQIMQTLISRLSGIPVEKMTQTDSKRYNLSEELHKRVIGQDEAVSATISRRAIRRNQSGIRITGKRPIGSFMFLGP	556
NTDB id 329 STU RS10020 WP 011225298.1	.AKFPKPALVDADQIMQTLISRLSGIPVEKMTQTDSKRYNLSEELHKRVIGQDEAVSATISRRAIRRNQSGIRITGKRPIGSFMFLGP	556
consensus	* **** * ** * * ! * * * * * * * * * ! * ! * ! * ! * * * * * ! * ! * ! * ! * ! * !	

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	567
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	573
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	573
NTDB id 140387 RDF RS02855 WP 000882549.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	577
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	574
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAEVLFDEESALIRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	641
consensus	!!!!!!!!!!* * !! * ! * * * * * * ! * ! * ! * * * ! * ! * ! * ! * ! * ! * ! * ! * ! * !	

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDEEVPAE	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 140387 RDF RS02855 WP 000882549.1	IIKSSKKTEESTKG.....	753
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNKVETVTKATSD..	753
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved