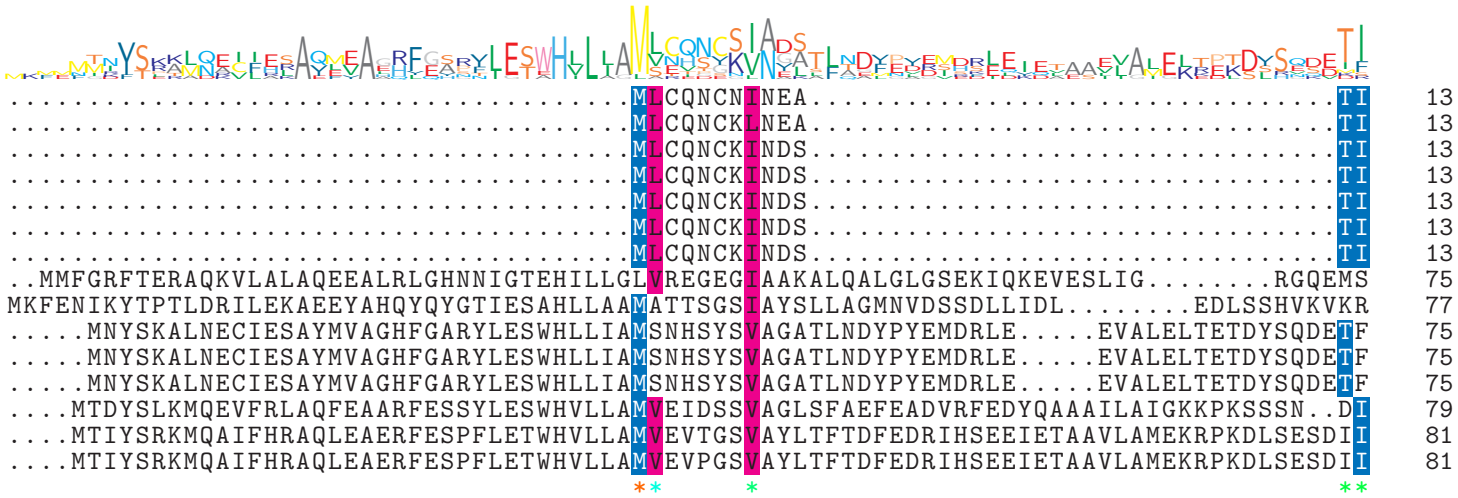


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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 95434 QMM27 RS06365 WP 000882530.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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



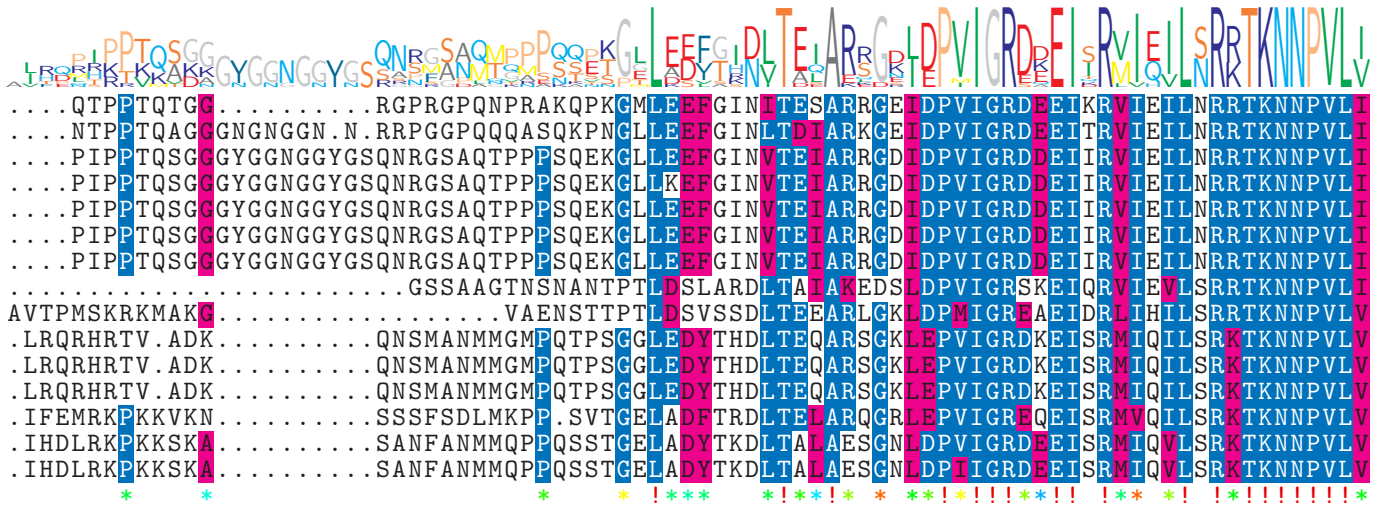
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NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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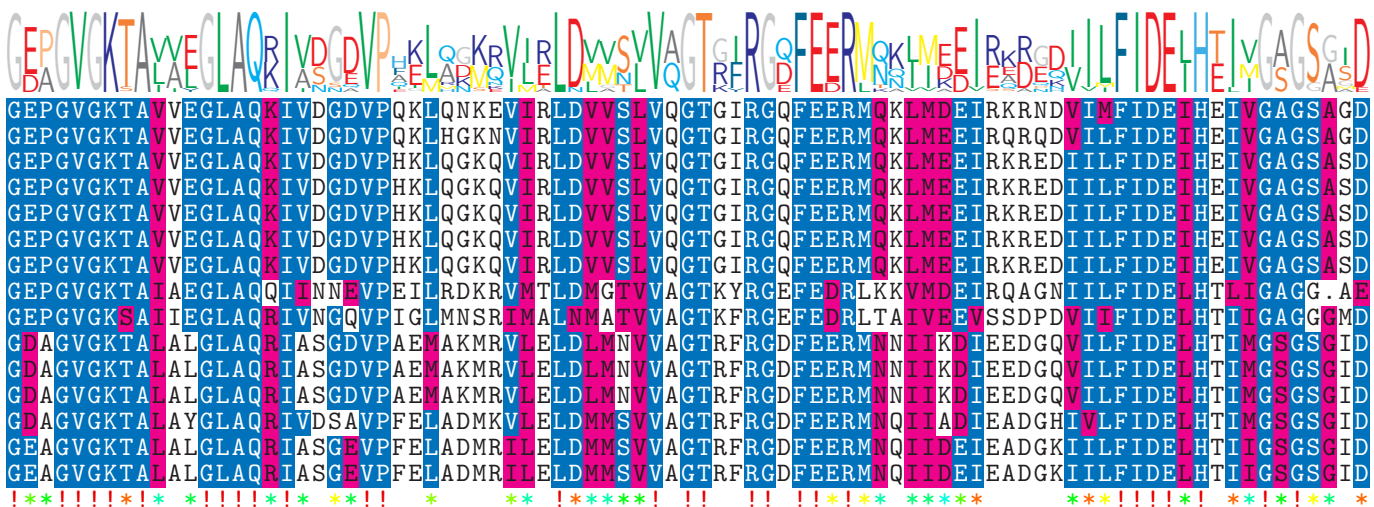
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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logo

NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 95434 QMM27 RS06365 WP 000882530.1
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NTDB id 329 STU RS10020 WP 011225298.1
consensus



236
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logo

NTDB id 601 KW2 RS02615 WP 021036805.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 95434 QMM27 RS06365 WP 000882530.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSRLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIIQLQGLDRDRYEAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRRLARINVDEPSPDEAIIAILQGLREKFEDYHQVKFTDQAIKSSAVM	390
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSSETYHHVVISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!*!!!!*!*!!!!!! !! !!!!!*!!! * ****!*****!! !* *!***! ! *! !****!	

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NTDB id 241 SP RS04015 WP 000882523.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 95434 QMM27 RS06365 WP 000882530.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
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NTDB id 245 SPD RS03860 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 243 SPR RS03635 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLLDEAGSKVRLRSFTTPNKLKELEQKLDEVRKEKDAAVQSQEFEEKAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLLDEAAAANKISVKNQQTGRDLLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPDSAIDLLDEASATVQVRIRKK..EDKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDSAIDLLDEASATVQVRIRKK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
consensus	** !!* *!!!!*!!!!*!!!!* * * * * * * * * * ! * * * * * * * *	

NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPVITEKDI	IEQIVEQKTQIPVGD	LKEKEQ	TLINLADDLKAHVIGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGP	482												
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKN	IEVIVEQKTNIPVGEL	LKEKEQS	QLIHLADDLKTRVIGQDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	489												
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKT	IEHIEEQKTNIPVGD	LKEKEQS	QLIHLAEDLKSHVIGQDDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	488												
NTDB id 95434 QMM27 RS06365 WP 000882530.1	KITDQDTPIISEKT	IEHIEEQKTNIPVGD	LKEKEQS	QLIHLAEDLKSHVIGQDDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	488												
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTPIISEKT	IEHIEEQKTNIPVGD	LKEKEQS	QLIHLAEDLKSHVIGQDDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	488												
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTPIISEKT	IEHIEEQKTNIPVGD	LKEKEQS	QLIHLAEDLKSHVIGQDDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	488												
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTPIISEKT	IEHIEEQKTNIPVGD	LKEKEQS	QLIHLAEDLKSHVIGQDDAVVDKIAKAIRNRVCLGTPNRPIGSFLFVGP	488												
NTDB id 85 BSU 00860 NP 387967.1	EKQKGENSEVTVD	IAMVVSSWTG	VPVSKIAQTETDKLLNMENILHSRVIGQDEAVVAVAKAVRRARAGLKDPKRPIGSFI	FLGP	546												
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVTDQA	VVAVASTLT	GPVITQMTKSEDRLLNLEKELHKKRVIGQDEAVSAISRAIRRSRGVADSRPMGSFMFLGP	555													
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKL	TQTD	AKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 290 KZH43 RS10025 WP 001109677.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKL	TQTD	AKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKL	TQTD	AKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 377 SMU RS09275 WP 002262344.1	PLLKKRAEVK	EEDILATLSKLSG	IPVKKLTQAD	SKKYLNLERELHKKRVIGQDDAVSSISRAIRRNQSGIRVKGKRPIGSFMFLGP	553												
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPA	LVDADQIMQTL	SRLSGIPVEKMTQT	DSKRYLNLESELHKKRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGP	556												
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPA	LVDADQIMQTL	SRLSGIPVEKMTQT	DSKRYLNLESELHKKRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGP	556												
consensus	*	*****	*	* *	*	* * ! *	*	*	*****	! *	* ! * ! * ! * ! *	*	* * ! * ! * ! *	! * *	* * ! * ! * ! * ! *	! * *	*

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVP	AE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.		753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.		752
NTDB id 95434 QMM27 RS06365 WP 000882530.1	QIKSAKK.AEVKSSEKEK.		752
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....		810
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NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....		810
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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

