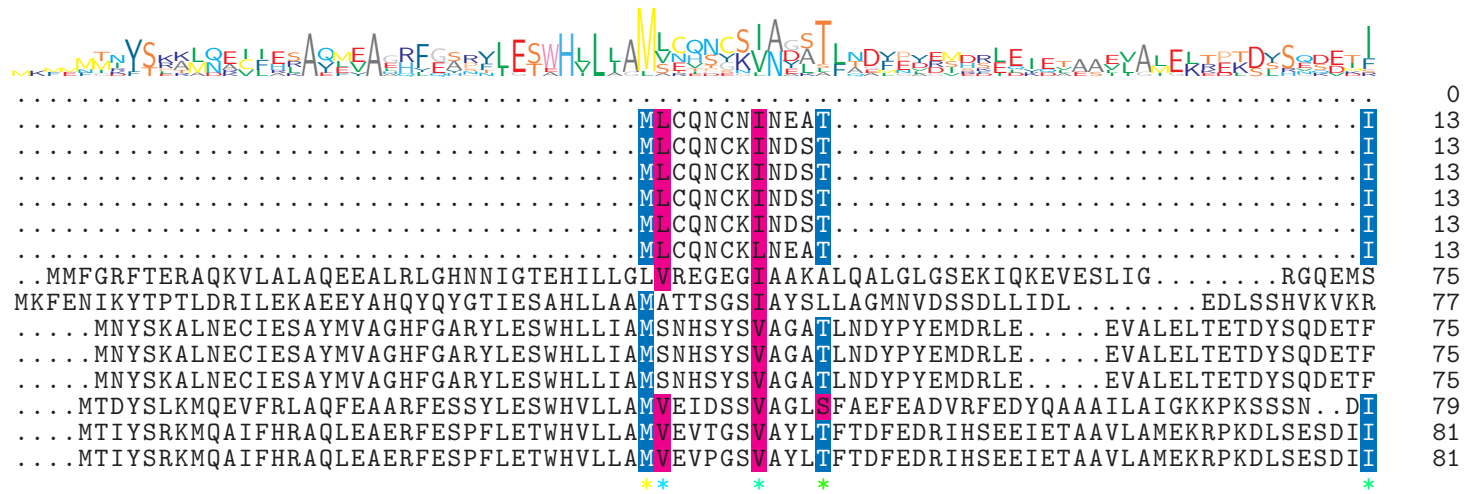


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NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 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

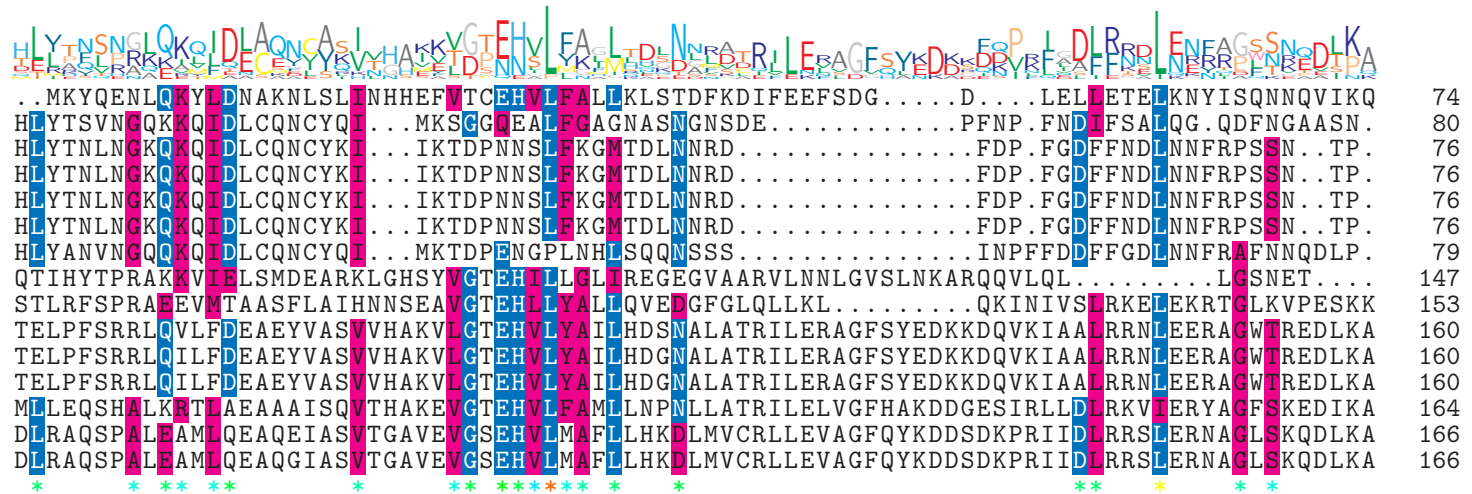
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NTDB id 329 STU RS10020 WP 011225298.1
consensus

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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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Sequence	Alignment	Score
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...QTP	PTQTG	122
...PIP	PTQSGGYGGNGGYGS...QNRGSAQTTPPSQEKGLLEEFGINVTETIARRGD	128
...PIP	PTQSGGYGGNGGYGS...QNRGSAQTTPPSQEKGLLEEFGINVTETIARRGD	128
...PIP	PTQSGGYGGNGGYGS...QNRGSAQTTPPSQEKGLLEEFGINVTETIARRGD	128
...PIP	PTQSGGYGGNGGYGS...QNRGSAQTTPPSQEKGLLEEFGINVTETIARRGD	128
...NTP	PTQAGGNGNGGN.N...RRPGGPQQQASQKPNGLLEEFGINLTDIARKGE	129
AVTPMSK	RKMAK	178
.LRQRHR	TV.ADK...QNSMANMMMGMPQTPSGGLEDYTHDLTEQARSGK	204
.LRQRHR	TV.ADK...QNSMANMMMGMPQTPSGGLEDYTHDLTEQARSGK	204
.LRQRHR	TV.ADK...QNSMANMMMGMPQTPSGGLEDYTHDLTEQARSGK	204
.IFEMRK	PKKVKN...SSSFSDLMKPP.SVTGELADFTRLDTLARQGR	208
.IHDLRK	PKKSKA...SANFANMMQPPQSSTGELADYTKDLTALAESGN	211
.IHDLRK	PKKSKA...SANFANMMQPPQSSTGELADYTKDLTALAESGN	211

logo

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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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Sequence	Position
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IDPVIGRDDEIIRVIEILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSLSVQGTGIRGQFEERMQK	213
IDPVIGRDDEIIRVIEILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSLSVQGTGIRGQFEERMQK	213
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LDPMIGREAEIDRLIHLSRRTKNNPVLIGEPGVGKSATIEGLAQRIVGNQVPIGLMNSRIMALNMTAVAGTKFRGEFEDRLTA	276
LEPVIGRDKKEISRMIIQLSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNN	289
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NTDB id 601 KW2 RS02615 WP 021036805.1	LMDEIRKRNDVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDET	291
NTDB id 241 SP RS04015 WP 000882523.1	LMEEIRKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDET	297
NTDB id 243 SPR RS03635 WP 000882517.1	LMEEIRKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDET	297
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NTDB id 85 BSU 00860 NP 387967.1	VMDEIRQAGNIILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDES	347
NTDB id 610 V4T04 RS10165 WP 012897346.1	IVEEVSSDPDVILFIDELHTIIGAGGGMDSVMDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRRLARINVDEPSDEA	361
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NTDB id 289 SPD RS10700 WP 001109677.1	IIKDIEEDGQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADS	374
NTDB id 377 SMU RS09275 WP 002262344.1	IIADIEADGHIIVLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEFEA	378
NTDB id 297 STER RS00545 WP 011680614.1	IIDEIEADGKIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHLMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEA	381
NTDB id 329 STU RS10020 WP 011225298.1	IIDEIEADGKIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHLMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEA	381
consensus	***** **!!!!!!*!!!!!!* * *!!!!!!*!! **!!!!!! * ****!***	

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NTDB id 243 SPR RS03635 WP 000882517.1	ITILKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..V.DPKVIDQRLIEAENLKSQAT	379
NTDB id 245 SPD RS03860 WP 000882517.1	ITILKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..V.DPKVIDQRLIEAENLKSQAT	379
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NTDB id 378 SMU RS02690 WP 002263569.1	ITILKGIQPKYEDYHHVKYTDEAIEAAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..V.DPKEIDHRLIEAENLKAQAT	380
NTDB id 85 BSU 00860 NP 387967.1	IQILQGLRDRYEAAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPP.NLKELEQKLDEVKKEKDAV	431
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NTDB id 289 SPD RS10700 WP 001109677.1	MTILQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLDPDSAIDLLDEAAATVQNKAKHVKA.DSDSL....S....PADKAL	450
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NTDB id 297 STER RS00545 WP 011680614.1	IDILNGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..E.DKREI....T....PLDEAL	455
NTDB id 329 STU RS10020 WP 011225298.1	IDILNGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..E.AKREI....T....PLDEAL	455
consensus	***!! !** **!!!! * *! *** !* * *** *!!!! !!!!!!!** *** ** * *** *	

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NTDB id 329 STU RS10020 WP 011225298.1
consensus

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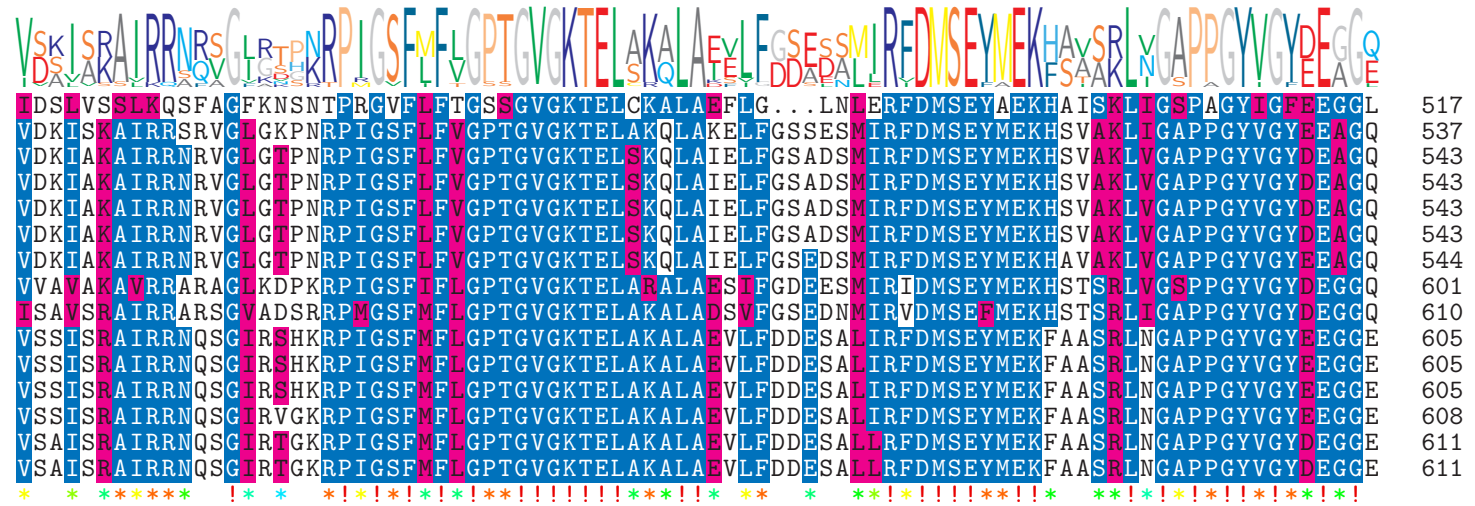


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NTDB id 329 STU RS10020 WP 011225298.1
consensus

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NTDB id 241 SP RS04015 WP 000882523.1	Y I E D T I T D Y Y L E N P S E K D . L K A V M T S K G N . I Q 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	Y I E D T I T D Y Y L E N P S E K D . L K A V M T S K G N . I Q 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	Y I E D T I T D Y Y L E N P S E K D . L K A V M T S K G N . I Q I K S A K K A . E V K S S E K E K .	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	Y I E D T I T D Y Y L E N P S E K D . L K A V M T S K G N . I Q I K S A K K A . E V K S S E K E K .	752
NTDB id 378 SMU RS02690 WP 002263569.1	H I E D A I T D F Y L E H P E Q K E . L K A I M T S N G K . I V I K A S N K V . E T V T K A T S D .	753
NTDB id 85 BSU 00860 NP 387967.1	H V E D R L S E E L L R G N I H K G Q H I V L D V E D G E . F V V K T T A K T N	810
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NTDB id 287 SP RS11210 WP 001109712.1	E V E D K L A E L L L K G D L V A G S T L K I G V K A G Q . L K F D I A	810
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NTDB id 289 SPD RS10700 WP 001109677.1	E V E D K L A E L L L K G D L V A G S T L K I G V K A G Q . L K F D I A	810
NTDB id 377 SMU RS09275 WP 002262344.1	E V E D K L A E L I L S G K L A S G Q T L K I G I Q K E K . L K F D I V	813
NTDB id 297 STER RS00545 WP 011680614.1	Q V E D K L S E L L L G G Q V V S G Q T L K I G C S K D K . L T F T V V	816
NTDB id 329 STU RS10020 WP 011225298.1	Q V E D K L S E L L L G G Q V V S G Q T L K I G C S K D K . L T F T V V	816
consensus	*** **	

- non conserved
- similar
- ≥ 50% conserved