

logo

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|---|--|----|
| | MKFRKQHYRAQVDTRDCGVAALAMIFGYYSYFSLATLREKAKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEV | |
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | ..... | 0 |
| NTDB id 296 STER RS06910 WP 011681415.1 | ..... | 0 |
| NTDB id 328 STU RS16110 WP 002951426.1 | ..... | 0 |
| NTDB id 421 SGO RS10260 WP 012131060.1 | MKFRKQHYRAQVDTRDCGVAALAMIFGYYSYFSLATLREKAKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEV | 80 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | | 0 |
| NTDB id 370 SMU RS04260 WP 002263294.1 | | 0 |
| consensus | | |

logo

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|---|---|-----|
| | SYPFIAHILKDGKLLHYVVTGQDKHTIHIADPDPQVKMTKISRERFEQEWGTITIFLAPSPAYKPSQKKNLSDFAIPY | |
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | ..... | 0 |
| NTDB id 296 STER RS06910 WP 011681415.1 | ..... | 0 |
| NTDB id 328 STU RS16110 WP 002951426.1 | ..... | 0 |
| NTDB id 421 SGO RS10260 WP 012131060.1 | SYPFIAHILKDGKLLHYVVTGQDKHTIHIADPDPQVKMTKISRERFEQEWGTITIFLAPSPAYKPSQKKNLSDFAIPY | 160 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | | 0 |
| NTDB id 370 SMU RS04260 WP 002263294.1 |MENKKSLLSQMAPY | 15 |
| consensus | | |

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|---|--|-----|
| | LKSKGLITNIVLFTYYSSTIYYGSPYLSMTDTYRPSIMLITLGMISITLILYLLSOLSYTOSYLYSLQQR | |
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | ..... | 0 |
| NTDB id 296 STER RS06910 WP 011681415.1 | ..... | 0 |
| NTDB id 328 STU RS16110 WP 002951426.1 | ..... | 0 |
| NTDB id 421 SGO RS10260 WP 012131060.1 | LIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTYVPD...HMKTTLGMISIGLIIVYILQQFLSYAQEYLLLVLGQR | 236 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | ..... | 0 |
| NTDB id 370 SMU RS04260 WP 002263294.1 | LKGYKALFGLAVIFTIVSSTITVIGPDRLEKEMTDTMTKGLAGKIDLDKIGEIALTLALLYFAGALVSYTASFIVSTLIQK | 95 |
| consensus | | |

logo

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|---|--|-----|
| | FSQBYRLPLAIDHYFRYPMRYFRIRISGETYSRYTDRMBYBOSSESILSIFLDQSLVSMYAIYHFLSONSIFPFLKLNQAL | |
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | ..... | 0 |
| NTDB id 296 STER RS06910 WP 011681415.1 | ..... | 0 |
| NTDB id 328 STU RS16110 WP 002951426.1 | ..... | 0 |
| NTDB id 421 SGO RS10260 WP 012131060.1 | LSIDVILSYIKHVFLPMSFFATRRTGEIVSRFTDANRIIDALASTILSIFLDVSIIVSIIAIVLFSQNSSLFFLTLGLI. | 315 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | ..... | 0 |
| NTDB id 370 SMU RS04260 WP 002263294.1 | FSQRLRNAIADKINKVPLKYFDSHSQGDTLRVTNDVDLMTQSFN.....QSLVSMVAIIILLIGSIFMMIKTNGAL | 167 |
| consensus | | |

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|---|---|-----|
| | AATAILSVYFAGFVLALYIMLKSPHEKMSRTEMERYSLYSSYSSGIMYSTYNSITSSKRYONINKGFXIYWKSSFE | |
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | ..... | 0 |
| NTDB id 296 STER RS06910 WP 011681415.1 | ..... | 0 |
| NTDB id 328 STU RS16110 WP 002951426.1 | ..... | 0 |
| NTDB id 421 SGO RS10260 WP 012131060.1 |PVY.....ALIIFLFMKPFKMNHETMEANSLLSSSIIEDINGIETIKSLTSEKQRYQKIDKE.FVTYLKKSFA | 383 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | ..... | 0 |
| NTDB id 370 SMU RS04260 WP 002263294.1 | AATAILSVFAGFVLSTVIMAKSQPLFKKQANLADVSGYVEEVYSGHNVVSSYNAIQSKKQFENLNDQLFASMWKSQFF | 247 |
| consensus | | |

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NTDB id 479 HSISS4 RS06980 WP 021143812.1
 NTDB id 296 STER RS06910 WP 011681415.1
 NTDB id 328 STU RS16110 WP 002951426.1
 NTDB id 421 SGO RS10260 WP 012131060.1
 NTDB id 377106 FRE64 RS18105 WP 222597823.1
 NTDB id 370 SMU RS04260 WP 002263294.1
 consensus

YGRSMFLQRYTKAAARLNLVLYLWYGATLXVNSK|LMLGTYAYNTLYRYFTRPFA|ARLQTRLQ SARXANERYP EYFL

 YGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGLITYNTLLVYFTNPLENIINLQTKLQSARVANERLNEVYL

 SGIMMPLMQFIG...NFGYVMVCIVGATMAINGDITMGTIVAFMTYVRIFTQPIAIAQGITQLQSANAAMGRVFEFLD

0
0
0
463
0
323

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NTDB id 479 HSISS4 RS06980 WP 021143812.1
 NTDB id 296 STER RS06910 WP 011681415.1
 NTDB id 328 STU RS16110 WP 002951426.1
 NTDB id 421 SGO RS10260 WP 012131060.1
 NTDB id 377106 FRE64 RS18105 WP 222597823.1
 NTDB id 370 SMU RS04260 WP 002263294.1
 consensus

YKSEEEENKRYKSLMPEKLVKVEIKNVEISFEGGRKKFVAVHNAFFINKGETFSLVGEESGSKTTIGRAIIGLNDTSNGE

 VKSEFEKKLIKDLSHFQADIDFRGV..SYKYGYGA.NVLSSEIDLHIPAGSKTSFVGVSGSGKTTLAKMMVHFYAPNQD

 EEEIEDENHKVKQLEKVEGNVNFNDV..FFGYSPDK.TIHDHSAHAKAGQKIATVGP TGAGKTTIVNLLMRFYEVDRGM

65
65
65
540
0
400

logo

NTDB id 479 HSISS4 RS06980 WP 021143812.1
 NTDB id 296 STER RS06910 WP 011681415.1
 NTDB id 328 STU RS16110 WP 002951426.1
 NTDB id 421 SGO RS10260 WP 012131060.1
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 consensus

IIFDGKKINGYLSHSEKNDLIRRIQMI FQDPAASLNERATVDYILSEGLYNFHLYKDEEER.K.....AKIKKIK
 IIFDGKKINGYLSHSEKNDLIRRIQMI FQDPAASLNERATVDYILSEGLYNFHLYKDEEER.K.....AKIKKIK
 IIFDGKKINGYLSHSEKNDLIRRIQMI FQDPAASLNERATVDYILSEGLYNFHLYKDEEER.K.....AKIKKIK
 ICLGGVNLNQLD...KQALRQYINYL PQQPYVF.....NGTILENLLLGAREGTTQEDILRAVELAEIRSDIE
 ISIDGVNIHDMT...RKEVHDAFAMVLDQTLWLF.....EGTVKENLTYNQKHIT.DEQVIAAAKAVGVHFFIK

135
135
135
605
0
464

logo

NTDB id 479 HSISS4 RS06980 WP 021143812.1
 NTDB id 296 STER RS06910 WP 011681415.1
 NTDB id 328 STU RS16110 WP 002951426.1
 NTDB id 421 SGO RS10260 WP 012131060.1
 NTDB id 377106 FRE64 RS18105 WP 222597823.1
 NTDB id 370 SMU RS04260 WP 002263294.1
 consensus

EVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPDLVIADEPISALDVSVAQVNLNLLKKFQKELGLTYLFI AHDLSVV
 EVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPDLVIADEPISALDVSVAQVNLNLLKKFQKELGLTYLFI AHDLSVV
 EVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPDLVIADEPISALDVSVAQVNLNLLKKFQKELGLTYLFI AHDLSVV
 RMPLNYQTELSADGAGISGGQRQRIGIARSLVMQPDLVIADEPISALDVSVAQVNLNLLKKFQKELGLTYLFI AHDLSVV
 TLPKGYDITVL.DDSVTL SVGQKQLIT IARALIKDAPLLILDEATSSVDTRTEELIQRAMDHLME..GRTSFVIAHRLSTI

214
214
214
681
39
541

logo

NTDB id 479 HSISS4 RS06980 WP 021143812.1
 NTDB id 296 STER RS06910 WP 011681415.1
 NTDB id 328 STU RS16110 WP 002951426.1
 NTDB id 421 SGO RS10260 WP 012131060.1
 NTDB id 377106 FRE64 RS18105 WP 222597823.1
 NTDB id 370 SMU RS04260 WP 002263294.1
 consensus

RFISDRIAVIYKGTIVEVAETEELYNMPI...HPYTKSLLSAVPIPDPIERKKVKLVYDPNQHDYSVDKPEMVEVRPGH
 RFISDRIAVIYKGTIVEVAETEELYNMPI...HPYTKSLLSAVPIPDPIERKKVKLVYDPNQHDYSVDKPEMVEVRPGH
 RFISDRIAVIYKGTIVEVAETEELYNMPI...HPYTKSLLSAVPIPDPIERKKVKLVYDPNQHDYSVDKPEMVEVRPGH
 ER.SEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS.....
 IN.ADQIIVLEKC.....
 RN.ADLILVMRDGNLIEEQGSHDQLMAENGFYADLYNSQFTEEVA.....

291
291
291
717
51
584

logo

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|---|--------------------|-----|
| NTDB id 479 HSISS4 RS06980 WP 021143812.1 | FVWGNKAEIETYRKEQSK | 309 |
| NTDB id 296 STER RS06910 WP 011681415.1 | FVWGNKTEIETYRKEQSK | 309 |
| NTDB id 328 STU RS16110 WP 002951426.1 | FVWGNKTEIETYRKEQSK | 309 |
| NTDB id 421 SGO RS10260 WP 012131060.1 | ..... | 717 |
| NTDB id 377106 FRE64 RS18105 WP 222597823.1 | ..... | 51 |
| NTDB id 370 SMU RS04260 WP 002263294.1 | ..... | 584 |
| consensus | | |

FVWGNKAEIETYRKEQSK

 non conserved
 similar
 ≥ 50% conserved