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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       MKFRKQHYRAQVDTRDCGVAALAMIFGYYGSYFSLATLREKAKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEV   80
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       ..........................................................................   0
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       SYPFIAHILKDGKLLHYYVVTGQDKHTIHIADPDPQVKMTKISRERFEQEWTGITIFLAPSPAYKPSQEKKNGLLDFIPL  160
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       ...................................................................MENKKKSLLSQMAPY   15
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       LIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTYVPD....HMKTTLGMISIGLIIVYILQQFLSYAQEYLLLVLGQR  236
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       LKGYKALFGLAVIFTIVSSTITVIGPDRLKEMTDTMTKGLAGKIDLDKIGEIALTLALLYFAGALVSYTASFIVSTLIQK   95
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       LSIDVILSYIKHVFQLPMSFFATRRTGEIVSRFTDANRIIDALASTILSIFLDVSIVSIIAIVLFSQNSSLFFLTLLGI.  315
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       FSQRLRNAIADKINKVPLKYFDSHSQGDTLSRVTNDVDLMTQSFN........QSLVSMVAAIILLIGSIFMMIKTNGAL  167
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       ......PV.....YALIIFLFMKPFEKMNHETMEANSLLSSSIIEDINGIETIKSLTSEKQRYQKIDKE.FVTYLKKSFA  383
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       AATAILSVFAGFVLSTVIMAKSQPLFKKQQANLADVSGYVEEVYSGHNVVSSYNAIQQSKKQFENLNDQLFASMWKSQFF  247
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1       YGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGQLITYNTLLVYFTNPLENIINLQTKLQSARVANERLNEVYL  463
NTDB id 385891 FU792 RS18880 WP 338101116.1  ..........................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1       SGIMMPLMQFIG....NFGYVMVCIVGATMAINGDITMGTIVAFMTYVRIFTQPIAQIAQGITQLQSANAAMGRVFEFLD  323
consensus
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logo
NTDB id 421 SGO RS10260 WP 012131060.1      VKSEFEEKKLIKDLSHFQADIDFRGVSYKYGYGANVLSEIDLHIPAGSKTSFVGVSGSGKTTLAKMMVHFYAPNQGDICL   543
NTDB id 385891 FU792 RS18880 WP 338101116.1 ..............................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1      EEEIEDENHKVKQLEKVEGNVNFDNVFFGYSPDKTIIHDFSAHAKAGQKIAIVGPTGAGKTTIVNLLMRFYEVDRGMISI   403
consensus                                        **   ** *    * * *  * * *     ** *   *  ** *   ** ** *****  *** **    * * *

logo
NTDB id 421 SGO RS10260 WP 012131060.1      GGVNLNQLDKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRAVELAEIRSDIERMPLNYQTELSADGAGIS   623
NTDB id 385891 FU792 RS18880 WP 338101116.1 ..............................................................................   0
NTDB id 370 SMU RS04260 WP 002263294.1      DGVNIHDMTRKEVHDAFAMVLQDTWLFEGTVKENLIYNQKHIT.DEQVIAAAKAVGVHHFIKTLPKGYDTVL.DDSVTLS   481
consensus                                    ****  * *  *      * *  *** *** ****   *  *  * ** *     *   *  **  * * *  *   **

logo
NTDB id 421 SGO RS10260 WP 012131060.1      GGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIID..NLMVLDKTIIFIAHRLTIAERSEQVVVLDQGRIVESGSH   701
NTDB id 385891 FU792 RS18880 WP 338101116.1 ......................................MNALLTGRTVVAIAHRLHTAHDADRIAVVQDGRVVELGSH   40
NTDB id 370 SMU RS04260 WP 002263294.1      VGQKQLLTIARALLKDAPLLILDEATSSVDTRTEELIQRAMDHLMEGRTSFVIAHRLSTIRNADLILVMRDGNIIEQGSH   561
consensus                                    **** * ****** ***********  **  *   ** ** **!** !!!!!***  ** **!* *!***! !!!

logo
NTDB id 421 SGO RS10260 WP 012131060.1      KELIEREGFYHHLVNS.......   717
NTDB id 385891 FU792 RS18880 WP 338101116.1 DELMAAEGEYAALWRAWTS....    59
NTDB id 370 SMU RS04260 WP 002263294.1      DQLMAENGFYADLYNSQFTEEVA   584
consensus                                   **!** *!*!* !***  *
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X non conserved

X similar

X ≥ 50% conserved