```
logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  MGVEFLVGRSGSGKTRLIIDSIQDELRREPFGKPIIFLVPDQMTFLMEYELAKTPDIGGMIRAQVFSFSRLAWRVLQHTG   80
NTDB id 120 BSU 10620 NP 388943.2             MGAEFLVGRSGSGKTKLIINSIQDELRRAPFGKPIIFLVPDQMTFLMEYELAKTPDMGGMIRAQVFSFSRLAWRVLQHTG   80
consensus                                     !! !!!!!!!!!!!!*!!! !!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  GMNRPFVTTTGVQMLLRKLIEEHKHEFKVYQKASDKTGFTEQVERMLTEFKRYCIEPEDVRRMAESGTASEYRGERMLSE  160
NTDB id 120 BSU 10620 NP 388943.2             GMSRPFLTSTGVQMLLRKLIEEHKQEFKVYQKASDKSGFTAQVERMLTEFKRYCLEPEDIRRMAESGTASEYRGERVLSE  160
consensus                                     !! !!!*!*!!!!!!!!!!!!!!!*!!!!!!!!!!!*!!!! !!!!!!!!!!!!!!*!!!!*!!!!!!!!!!!!!!!!!*!!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  KLHDLGILYQQMERSLAGHYLHSEDYLTLLAQQIPLADVVKGARVYVDGFYQFTPQELRVLEQLIMHAEHVTFSLTADSP  240
NTDB id 120 BSU 10620 NP 388943.2             KLHDLSILYQQMEKSLADQYLHSEDYLTLLAEHIPLAEDIKGAHIYVDGFYQFTPQEFRVLEQLMVHAEHITFSLTADKP  240
consensus                                     !!!!! !!!!!!!*!!! *!!!!!!!!!!!! *!!!!* *!!!**!!!!!!!!!!!! !!!!!!**!!!!*!!!!!!! !

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  SAEQAPDELDLFRMTGSTYYKLYQTAKELNADISCKELHGTKRHQHAPELACIESQYDVRPAAAYTGGQEAFTVMQAQNR  320
NTDB id 120 BSU 10620 NP 388943.2             SYEREPHELELFRMTGKTYYRLHQKAKELNLDITYKELSGTERHTKTPELAHLEAQYEARPAIPYAEKQEALTVMQAANR  320
consensus                                     ! !  !*!!*!!!!!! !!!*!*! !!!!! !!**!!!*!! !! * !!!! *! !!* !!! *!   !!! !!!!! !!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  RAELEGIAREIQSLVRDGGYRYKDMAILIRQPEDYKDLLKEVFADYGLPYFIDGKASMQHHPLIEFIRSSLDVVKGNWRY  400
NTDB id 120 BSU 10620 NP 388943.2             RAELEGIAREIHALVREKGYRYKDVAILARQPEDYKDMVKEVFADYEIPYFIDGKASMLNHPLIEFIRSSLDVLKGNWRY  400
consensus                                     !!!!!!!!!!!* !!!* !!!!!!*!!! !!!!!!!!**!!!!!!! *!!!!!!!!!! *!!!!!!!!!!!!*!!!!!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  EAVFRCAKTELLFPLDQPEQKIREQVDQLENYCIAYGIKGERWTSGERFVYRRFVSLDEDFAQTDQEIEMEHMLNETREW  480
NTDB id 120 BSU 10620 NP 388943.2             EAVFRCVKTELLFPLNEPKAKVREQVDQLENYCIAYGIKGDRWTKGDRFQYRRFVSLDDDFAQTDQEIEMENMLNDTRDW  480
consensus                                     !!!!!! !!!!!!!!  !  !*!!!!!!!!!!!!!!!!!!*!!! !*!! !!!!!!!!*!!!!!!!!!!!!*!!!!*!!*!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  IAAPLVRLQNRMKKAKTVQSMAEALYRYLEETDVPLKLDRKRQRAEETGNMIEAQQHGQAWDAVIQLLEEFAGMMGEDEI  560
NTDB id 120 BSU 10620 NP 388943.2             IVPPLFQLQKRMKKAKTVQEKAEALYRYLEETDVPLKLDQERQRAEDDGRIIEAQQHQQAWDAVIQLLEEFVEMMGDDEI  560
consensus                                     ! *!!  !! !!!!!!!!!  !!!!! *!!*!!!!!!!!  !!!!!* ! *!!!!!! !!!!!!!!!!!!!  !!!*!!!
```

```
logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  SLALFQQMLETGTESLHFSLIPPALDQVFVGNMDLSRMYGTSCTFVIGANDGVLPARPDENGVLSDDDREWLKAVGVELS   640
NTDB id 120 BSU 10620 NP 388943.2             SLDLFQQMIEAGAESLTFSLIPPALDQVFVGNMDLSRMYGTSCTFVLGANDGVLPARPDENGVLSDDDREWLKTIGVELS   640
consensus                                     !! !!!!!*! ! !!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!! *!!!!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  SAGRERLLDEHFLIYMALSSPSDRLYVSYPIADAEGKTLLPSIVVNRLGELFPDHQEKLSAADPEQVSEEEQLQYLVNKQ   720
NTDB id 120 BSU 10620 NP 388943.2             SGGRERLLDEHFLIYMAFSSPSDRLYVSYPIADAEGKTLLPSMIVKRLEELFPHHKERLLTNEPEQVSDEEQLMYVVNKS   720
consensus                                     !*!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!**! !! !!!!*! !*!   *!!!!!*!!!! !*!!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  VAQTYTASQLRLWTREYEISDVWWSAYNVLMKEPDHRRAKKLFSSLFFRNEAKRLERPVSRQLYGEHIKGSVSRMEAFNA   800
NTDB id 120 BSU 10620 NP 388943.2             VAQSFTASQLRLWTREYDISDVWWSTYNVLMSEQDRRLQSKKLFSSLFFRNEVKQLERSVSRQLYGERIQGSVSRMETFNA   800
consensus                                     !!!**!!!!!!!!!!!!!*!!!!!!! !!!!! !*!*   !!!!!!!!!!! ! !!!*!!!!!!!!*! !!!!!!! !!!

logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  CQFSHFASHGLQLKERQFFKLEAPDIGQLFHSSLKLISDRLREQKLEWRDLTKEDQCRNFSYEAVERLAPKLQKEILLSSN   880
NTDB id 120 BSU 10620 NP 388943.2             CPFSHFASHGLHLKERQFFKLEAPDIGQLFHSSLKLISDRLREQKLDWRDLTKEQCELFSYDAVERLAPKLQKEILLSSN   880
consensus                                     !*!!!!!!!!!*!!!!!!!!!*!!!!!!!!!!!!!!!!!!!
```

```
logo

NTDB id 299694 BVDSYZ RS05555 WP 062623310.1  CTYCAFQSVCQFDESLKENEYRSLKAEKDGTILDWLKKEADDDANS  1166
NTDB id 120 BSU 10620 NP 388943.2             CTYCAFKSVCQFDESLEENEYRPLKAEKDKTILEWIKKEADGNEHS  1166
consensus                                     !!!!!! !!!!!!!!! !!!!!*!!!!!! !!!*!*!!!!!!   *!
```

X non conserved

X similar

X ≥ 50% conserved