```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      MSQYTICEQQTERIFDISPSRWQKNCEEKQLLLRYLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVIASDE    80
NTDB id 231301 S101359 RS12595 WP 088117573.1  ..........................................................................    0
NTDB id 96 BSU 24730 NP 390353.1               ..........................................................................    0
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      LKYLLNALSPEQQPIYEESELAFVEQEQEQLNLNDPIIQLLDNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLYKS   160
NTDB id 231301 S101359 RS12595 WP 088117573.1  ................................MDPIEKTSRTLIEEAYSVKASDIHIVPREQDALIHFRIDHALLKKRT    47
NTDB id 96 BSU 24730 NP 390353.1               ................................MDSIEKVSKNLIEEAYLTKASDIHIVPRERDAIIHFRVDHALLKKRD    47
consensus
```

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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      LSIQLASRLISRIKLLAKLDISELRQPQDGQFSFTTALADTLDFRVSSLPTIYGEKLVLRLQKNKPTSFDFLQLGFNPQQ   240
NTDB id 231301 S101359 RS12595 WP 088117573.1  MKKEECVRLISHFKFLSAMDIGERRKPQSGSLSLKLK.KGTVYLRMSTLPTINDESLVIRVLPQHNI.PAIERLSLFPKT   125
NTDB id 96 BSU 24730 NP 390353.1               MKKEECVRLISHFKFLSAMDIGERRKPQNGSLTLKLK.EGNVHLRMSTLPTINEESLVIRVMPQYNI.PSIDKLSLFPKT   125
consensus
```

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logo
                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      QTTLLNALKQPQGLILVTGPTGSGKSITLYSALNYLN.QMDKHILTAEDPVEIEIDGLIQTQVNRSIQLDFSQLLRTFLR   319
NTDB id 231301 S101359 RS12595 WP 088117573.1  GATLLSFLKHSHGLIIFTGPTGSGKSTTLYSLVQYAKKHFNRNIITLEDPVETRDQDVLQVQVNEKAGITYSAGLKAILR   205
NTDB id 96 BSU 24730 NP 390353.1               GATLLSFLKHSHGMLIFTGPTGSGKTTTLYSLVQYAKKHFNRNIVTLEDPVETRDEDVLQVQVNEKAGVTYSAGLKAILR   205
consensus
```

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logo
                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      QDPDIIMLGEIRDEESAKMALRASQTGHLVLSTLHTNDALSAVERLLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGVG   399
NTDB id 231301 S101359 RS12595 WP 088117573.1  HDPDMIVLGEIRDAETAKIAVRAAMTGHLVLTSLHTRDAKGAIYRLLEFGVNMNEIEQTAIAIAAQRLVDLTCPFCEN.G   284
NTDB id 96 BSU 24730 NP 390353.1               HDPDMIILGEIRDAETAEIAVRAAMTGHLVLTSLHTRDAKGAIYRLLEFGINMNEIEQTVIAIAAQRLVDLACPFCEN.G   284
consensus
```

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logo
                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1      CDECYQGYRG...RIGVY.........QCLSRTAKKFDKQTAYLDFSSLRESAKQKIEQQLTNETEVDRVLGYE..   461
NTDB id 231301 S101359 RS12595 WP 088117573.1  CSSVYCRITRDVRRATIYELLYGKNLQQCIQEAR....GERANYQYRTLRQIIRKGIALGYLTTNNYDRWVYHEED   356
NTDB id 96 BSU 24730 NP 390353.1               CSSVYCRQSRNTRRASVYELLYGKNLQQCIQEAK....GNHANYQYQTLRQIIRKGIALGYLTTNNYDRWVYHEKD   356
consensus
```

X non conserved

X similar

X $\geq$ 50% conserved