```
.....................................................................ATGGAACATCATGTTCTCGGCTATGAGACATCCAAACACGGCTCA    45
.....................................................................................................................     0
ATGGATAAGTACGGACATATAGCTCATCAAGAAGGCGATGTTTGTTATTATATTCCAAGGCTGTTCAAATACAACAGTTATTATAGTGGGACAGAGGACGTTCGAATATTTGTTGGAGAT   120
                                                                                 *   *  **  **     *   * *    *         **

CGATATCCTGTATTCTTGACTCAATTGCTGCCGACAAGCAAGTGGTATGGTAAAGCAACATCGTTAACAATTCGGAGTATTTATAAGAACCTAGAGACTTCGAGGAAATGGAATACTGAG   165
.....................................................................................................................     0
TTAAAGTACCGGATGAGAGTTTCTTTGCAAATTTGCGAAAAGTATTATGATAGGCGGTTGTCGATGTTGTTCTGGAAAAATCATCCTTTACAGCAAATACACCTTATTGGCTGCATCATT   240
  * *        *      *   ****          ****  **** **        *** *     *  ***  * * **      *   * *        *   *    *

TACCTTATTTACAACAGCTCCATTAGAGACATTTTCCTGTATTTAAACCACCCAATTACTAGTATTAAGATATGTGGACTTGTGGTTGGATGGAAATGGAAACTTATAGGAAACGAGGAT   285
.....................................................................................................................     0
GGACTCCAGTTCAAATGGATTGGGAAACAAGAATACATTTTTTTCAGTTGGACGATTGTACTTCAGACTCTTCATTGGTGGGTTATACTAGTGACATGAGATTCTTAACATGTAAAGTT   360
   **    * ***  *        * * *    * * * * ***  *         *  ** *    *    *      * *    *    *  *   ** * *  **  *    * * *

AGGGCATTTTGGTACATTGATGATTGCTCAGATACAATACTATGCCAATGTTCCAAAAGTCAGTTACTTGCGCTGAATTGCCCGCTTGTTGATATGAGTGGGTGGACATTGATCCTTACT   405
.....................................................................................................................     0
AAGAAGGATAGCATCCTATCATGGGGGTTGAACATAACCGATTTGATAGGCTTAACTCTTCATGTCTACGGGCAAGCAAGTTTGAACTATCAAGAGCTTCAAGTTGAATATTTAAGATTA   480
* *     * *   * *        * *   * * **     *    * * *  *    ***  *    * **      *   *     * *   *  *        **   *

GGCTTACTAGATCAAGAACGAGTTGAATTCAAGGTTACTCAAATTGAAGTT.GTGAAGAATTTGAAGCACG.ACATTGACTTTTGGAGTGAAGCATTTGACAACCAAAAAGAATTAGCGA   523
................MHGVSY...RCYSRVSR..GYHAVCMTVRMHSCD.SHARVGGKYWKNRARRKVGTVGVKYMWKGDDYAVHDDSSDSSKCK...CVNNSGNNAGGSR..VVCGV    92
TGCTACAGTTTAACGGAAGAAATAGATCATTGGAAAATCACAATGAACATGCGTGAGCAACTTGACACGCCTTCGGTCCTTAAGCGATTTTGTAATTGGAGAATTGTTCACGCAAGAGCAA   600
 ***          *** ** * ** *    *   *  * **!  *  *  **** *** ***** * *** ! *        *   *      *    **      ! ! *  **!**

TACCATGGGAAATTGATCCCGAAAGTTTAAACGA......ATTTTATCGTGGAAAGCAACATACACCGTCTAAATCAAACAGT.AACTTAGGGAACTACATTGAACAATT........AC   628
YNTNVGGVS....TSHWRKCCRMDDTDKASGGDD......MDGRDSDYSTNKAKVR.DVKDKTSDVRNSSVVDDTCDNTTGSNTDRTATVSGNDNYKATGSTSKRK.............Y   188
GAGTGGACACCTGAGACATCACAGATTGAGGTAGTAAACCCGGATTTTGTAGGTAT.AGGGTACAAAACCCCAGAAAGTAAAAGAAATGAAACTACTTTCATCGAGCAACTGCAAGAAGA   719
 *   **      ***   !  *  !* ! *          * * * *! ** *  *   ****    *  * *** * *   ** *** *  *****  !  *  *

AGACCATACATTTCC..AAGAAAATGAGTTACTCTTAGCTAGCCCATATA.ACGGGCATGTGTCTACTGGGATGGGAGTTTGGAATTCCGACTTGCTGCAATCAACTTTGGAACAAGATC   745
RKAYCTNDARDGTSV..KGDG....CHSNDDMYSTGDVVTARNRVSKKHAKAYTKRNKAGTVRYDVSTSMAATDAKSRTD.AGVAWTHHSTHTYSSTTCNN.................   282
ACGCTTGAAGGATGAATTAGAAATTATTAGTCCATACAATAGCACAGATACTTCGAATAGTGTGCATTCC..TTGTCATTTCGGTTTGTATCGTCGCTAAAGGATTTTCCTGAAACTCAC   837
* **** **   !     ***** **     *  !    !!** ** **! *  *   *!!**  * !   *! *   !** ! **!   ****  *****  *  **    * *    *

TAATCGAACAAAGTAGATTAGATAAAACTTTGGGAGGACAGATTTCTCCAAATTCTCGGAAACGATCGTCAAAGCTCTCCCCTAAACAAATGAAACGGGAAATTCTTGGAGTTCTTATCG   865
.....................................................................................................................   282
TTTTTGAATTCAGGTGATCAAATTGACAACGGCAATGACGAACAGTTAAAAAACTAGAATATCAAAGCGCTAATCTACCTGTGATGATTCCCAATAGGACATCAGCAAAGTCAAACTTG   957
*  * ***   **  *** * **  *     *  * ***  *    *  ***  ** * * *  *  *    *     **  * *  *     **  *** **      ***     * *

AGAAATCAATGGAATCAAAAGTATGCAAGATATATGAGCCATTGCTGTCTATAAATCTCGGCCCAGGAGGAGAGGCAACAGAC...CTGAAAACGGAACCCGTTTTGCATTTGAAATTTT   982
.....................................................................................................................   282
ATGTTGATCCTATTAGGACTACAAATGAAAGAGATTTCTAATTCTGACCTTTACAAACTAAAGGAAGTACGCAGCGTAGTAACTAGCTTAGCATCGTTTTTGTTTCAACAACAAAATGTT  1077
*              *    *    * * * **     ***     ** ** *         * *     **   *   **   ** *  *  *     ****        **** **
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ATGAAACATTCCTAGCACAACTAGCGGAAATGGCAATTATCACTCTTGATAGTTTCACGATAAACATGACAAACTTGCATAATTGCTATCGATACATAATCACTCGATTTCAATCGTTGA  1102
.....................................................................................................................  282
GGCGTCATGAAATCTTTTGACTCTTTGGAAAAGGAAGCGTTTCGAGACCTGGTTAATCGTCTAGTCAGCCAGGGTTTGATCGGATTAAAGATAAAACAAGTGAGACATTTGATTTGCTT  1197
             *      ***    * **  * **   *  *      * ***   **   *    * **   **  **       *  **** *  *         **  **


TTAATGTTCAAATTCCGCAGATTACGATAAAGTACAGCGAGATTAGAAATTTCTGTAAATTACCTCTACTGTCCAAAAATTGATTCTTCAAATGTGTAAGCATTTTCTCAATACAACTC  1222
.....................................................................................................................  282
CCTCTAAAAAATCTTTTTGAATATGCTGAAAAACGTATATCAGTTCTAATGAAGCTACAATGTTATACAGGCACTGTGCAATTAAGTCATGTTCAGGAAAAGCTACATTTGCCGTACATA  1317
    *    **  *      **      ***          * *   ***     ** * *         *  *     * * *            * **   *    *      *  *


ATATCGGAAATCTTATAGACTGGTGGGTAGATCCTACATCAGAAGAACGCTATAAAGTCTTCTTCACCTATTCTAAATCTAAATAG................................  1308
.....................................................................................................................  282
ACAACGAACGGCATCGTTGATGTTTTCAAAGAATGTCTTAAAAGGACAAAGAAACAGTATCCTGAGGTACTAAAAAATTGGTGGATTGATCTTGATCCGAAGAATGGTATGGAGGACCAA  1437
* * ** *   * *      ** *    *        * * * * **     * * *** * **        *   ****      *


...............................................  1308
...............................................  282
AACAGTGGAATATTATTACATTTGGAATACGCAGCAGCATATTCATAA  1485
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X non conserved

X ≥ 50% conserved