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ATGATCGTTTTCCCCATGGCTCCGATCTTCACATCGATGGACAGGGATGCCTTCCCCGACTGCGGTTCCATGATGAGTCGGATGTTTGACGGCAACGACTTCGACAGGACTTTCTTCGAC   120
ATGATCGTTTTCCCCATGGCTCCGATCTTCACATCGATGGACAGGGATGCCTTCCCCGACTGCGGTTCCATGATGAGTCGGATGTTTGACGGCAACGACTTCGACAGGACTTTCTTCGAC   120
...............ATGGCTCCGATCTTCACATCGATGGACAGAGGTGCCTTCCCTGACTGCGGTTCCATGATGAGTCGGATGTTTGACGGCAACGACTTCGACGGGGCTTTCTTCAAC   105
ATGATCGTCTTCCTCATGGCTCCGATCTTCACATCGATGGACAAAGGTGCCTTCTCCGACTGCGGTTCCATGATGAGTCGGATGTTTGACGGCAACGACTTCGACAGTACTTTCTTCGAT   120
...............ATGTCGTCCATCTTCTC......GAGCAGTCGACTGTCGGACGACCTGGGAGACCTGCGGAGTCGG...CTCAACGACCAGTACTCCA.....GGTTGGACCGGG    91
********************!!!*!**!*!!!!!!*!******!**!!* ******!*****!!!***!!***!*!!**!!!!!!****!**!!!*!*!**!!!*!********!!****!***

GGCATCGTACCTGTTGGACTCTTCAGATATCCGGAAGATCGCCGCAG.CTCTTATAAAGTGTCCAGTCCGAAGTGTCCGTCCTCCGAGGTGTCCCTGAC..TCCGGACAACTTCGCGCTG   237
GGCATCGTACCTGTTGGACTCTTCAGATATCCGGAAGATCGCCGCAG.CTCTTATAAAGTGTCCAGTCCGAAGTGTCCGTCCTCCGAGGTGTCCCTGAC..TCCGGACAACTTCGCGCTG   237
GGCATCGTACCTGTTGGACTCTTTCGACGTCCGGAAGATCGCCCCAG.CTCTTATAACGCGTCCAGCTCGAAGTGCCCGGCCTCCGAGGTGTCCCTGAC..TCCGGACATTTTCGCGCTG   222
AGCATCGTACCTGTTGGCCTATTTGGATGTCCGGAAGATTGCCGCAG.CTCTTATAAAGTGTCCAGTGCGAAGTGTCCGGCCTCCGAGGTGTCCCTGAC..TCCGGACAACTTCGCGCTG   237
AGTACCGGTTCTATGAGAACC....GCTACCAGGACATCCGCCGTCGTCTCTTCGACGGCAGTCCGCTCAAGCCTTCTGTGTGGACGTCCCTCACCAACGACTCCGATAGGTTCTGCCTC   207
*!*!*!!***!!*!**!****** *!****!*!!!*****!!!***! !!!!!**!**!****!*!* !*!*****!*!************!!*!**!!  **!*!!*!**!!!***!!*

AAGCTGGACGTCCGGGGCTTTGTTCCGGAGGAGATCAGCGTCAAGACCATCGGAAACTCCGTCGAGGTGCACGCCAGGCACGAAGAAAAAGACCCCGAGGGACGCGGCTTCGTGATGCGC   357
AAGCTGGACGTCCGGGGCTTTGTTCCGGAGGAGATCAGCGTCAAGACCATCGGAAACTCCGTCGAGGTGCACGCCAGGCACGAAGAAAAAGACCCCGAGGGACGCGGCTTCGTGATGCGC   357
AAGCTGGACGTCCGGGGCTTTGTTCCAGAGGAGATCAGCGTCAAGACCGTCGGAAACTCCGTCGAGGTGCACGCCAGGCACGAAGAAAAAGACCCGGAGGGACGCGGCTTCGTGATGCGC   342
AAGCTGGACGTCCAGGGCTTCGTCCCTGAGGAGATCAGCGTCAAGGCCGTCGGAAACTCCGTCGAGGTGCACGCCAGGCACGAAGAAAAAGACTCAGAGGGACGCGGCTTCGTGATGCGC   357
CGGTTGGACGTCGGGCACTTCGATGCGGACGACCTCGAGGTGAAGACTGTGGACAACTTCGTGATCATCCACGGCAAGCACGGCGACCGGA...CCGACGAGCTGGGCGTCATCTCCAGG   324
**!*!!!!!!!!**!**!!!*!***!*!!*!!**!!***!!*!!!*!**!*!**!!!!*!!!*****!*!!!!*!!*!!!!!**!!********!*!!*!**!**!!!*!!*!*****!*

GAGTTTCGACGCAAGTACACGCTTCCCGATGACGTCGATCCGGCATCCGTGACGTCGCAGCTCACAGGACGTGGCCTGTTGGCAGTCGAAGCCCCGAGGAAG.....AAGGCGGAGACGA   472
GAGTTTCGACGCAAGTACACGCTTCCCGATGACGTCGATCCGGCATCCGTGACGTCGCAGCTCACAGGACGTGGCCTGTTGGCAGTCGAAGCCCCGAGGAAG.....AAGGCGGAGACGA   472
GAGTTTCGACGCAAGTGCACGCTTCCCGATGACGTCGATCCGGCATCCGTGACGTCGCAGCTCACAGGACGTGGCCTGTTGGCAGTCGAAGCCCCGAGGAAG.....AAGGCGGAGACGA   457
GAGTTTCGACGCAAATGCACGCTTCCCGATGACGTCGATCCGGAATCTGTGACGTCACAGCTCACAAGACGTGGTTTGTTGGCAGTCGAAGCCCCGAGGAAG.....AAGGCGGAGTCGA   472
GAGTTCACCCGCAAGTGCACCTTGCCCAAGGACGTGCTTCCGGAGACCGTGAAGTGTTCCATCACCTCGGACGGCTTCCTCATTGTTGAGGCTCCCAAGAAGTCCGAAAGGCCGTCGGGT   444
!!!!!****!!!!!*!*!!!**!*!!!*!*!!!!!***!!!!***!*!!!!*!!******!!!!*******!!**!**!****!!*!!*!!*!!*!*!!!!     !!!!!*!****!*

CACCACTGTCTGA.......CACAGTCCC...CATCCCTGTGGAGCACACGTCTTCCAACGACGTCCCTTCAACGTCGCAGGAATCAAGTT..AAGAAGATACGAACTTTTTATTTTAAT   580
CACCACTGTCTGA.......CACAGTCCC...CATCCCTGTGGAGCACACGTCTTCCAACGACGTCCCTTCAACGTCGCAGGAATCAAGTT..AA........................   555
CACCACTGTCTGA.......CACAGTCTC...CATCCCTGTCGAGCACACGTCTTCTAACGACGTCCCTTCAACGTCGCAGGAATCAAGTT..AA........................   540
CACCACTGTCTGA.......CACAGTCCC...CATCTCCGTGGAGCACACGTCTTCGGAGGACGTCCCCTCAACATCGCAAGGAACAAATT..AA........................   555
CACGAGAGGCTGGTTCCCATCAAGGTCCTGGACACCAACGACGAAGCCATGTCGAAGACGGCCGCGACGTCAGCGACGTCCACGGTGACTTCCACGTCGACCGGTACAGAAGCGAGAGCG   564
!!!*!**!*!!!*       !!**!!!**   !!*!***!**!!***!!*!!!*** ***!*!!***!*!!!*!**!!*********!*!!  !**  **   * **

TTAACGCCTGTGATATTTTTTACTTCACCTTTATAGCTATTTAAGAAGTCTAATAAATTATATTTTTTATCATAA............................   655
.......................................................................................................   555
.......................................................................................................   540
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ACTACGAGCTCGACGACCACGACAACCACGTCAAAGTCTATCCTGAAGAACGGGATGTCGTTAGGGTCGCCGGTCGGGAAAGGGGCAATCAGTAAGGTGAAGTGA   669
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X non-conserved

X ≥ 50% conserved