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                    5        10        15        20        25        30        35        40        45        50        55        60        65        70        75        80
conservation        !!!!*!*!*!!**!*!!!!!*!!!*****!*!**!!*!**!!*!! *!*!!*!!**!*!!!!! !!*!!!!!*!!!*!*!!
SCPP5˙AM            ATGAAATCCCTCGTTTTGTTGGCATGTGTCATTGGAGTGGCCCTCTGCGCTCCGATATCACCATTCTTCAACTACTTGCC   80
SCPP5˙PN            ATGTTGGGCTCCATTCTCTGCCTTTCTTTCGTCACAATGGTGTCTGCTGCACCGATGTCACCATTCTTCAACTATTTGCC   80
SCPP5˙CI            ATGTGGACATCTATCCTGTGTCTTCTTCTGGCTGGTGCAGTATCCTCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5˙DR            ATGTGGACGTCTCTCCTGTGTCTTCTGCTGGCCGGTGCAGTGTCTGCCGCTCCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5˙LW            ATGTGGACATCTTTCCTGTGTCTT...CTTGCGGGTGCAGTATCCGCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   77
SCPP5˙PP            ATGTGGACATCTATCCTGTGTCTTCTTCTGGCGGGTGCAGTATCCGCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5-C1˙CC         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCTGCAGCACCACTTTCACCATTTTTCAATTATCTCCC   80
SCPP5-C2˙CC         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCCGCAGCACCACTTTCACCATTTTTCAATTATCTCCC   80
SCPP5-C1˙SA         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCTGCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5-C2˙SA         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCTGCAGCACCACTTTCACCATTTTTCAATTATCTCCC   80
SCPP5-C1˙SG         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCTGCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5-C2˙SG         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCCGCAGCACCACTTTCACCATTTTTCAATTATCTCCC   80
SCPP5-C1˙SR         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCTGCAGCACCACTTTCACCGTTTTTCAATTATCTCCC   80
SCPP5-C2˙SR         ATGTGGACATCTCTCCTGTGTCTTCTTCTGGCTGGTGCAGTATCCGCAGCACCACTTTCACCATTTTTCAATTATCTCCC   80

                    85        90        95       100       105       110       115       120       125       130       135       140       145       150       155       160
conservation        *!!!!!!!!*!**!!*!**!**!!***!**!!*********!**        *!**!**!**!*****!*!!!!*!*!*!
SCPP5˙AM            GCACTATGGAAATCCAAGACCTGGACCTTCTGCACAGGGCACTAACGACTTCTTCTCTACCAATGGACAGCCTGCTTTCA  160
SCPP5˙PN            GCATTATGGAAAACCA...GCAGGCCCCTCTGCACAGTTGTTAGTTTGCTTTTTTGGGTGCGGAAATTATCCTGCCTACG  157
SCPP5˙CI            TCATTATGGCAGCCCGAAGCAGGTTGCTACAGAA......CATGGA......ATACCATCACAGCCACATCCTGGTCTGA  148
SCPP5˙DR            TCATTATGGCAGCCCGAGGCAGGGGAATACTGGTGGCTTCCAGGGA......ATGCCATCACAGCCACATCCTGCTATGA  154
SCPP5˙LW            TCATTATGGCAGCCCGAGGCAGGGGAATAATGGTGGCTTTCAGGGA......ATGCCATCACAGCAACATCCTGGTCTGA  151
SCPP5˙PP            TCATTATGGCAGCCCGAAGCAGGGGAATAATGGTGGCTTTCAGGGA......ATACCATCACAA......CCTGGTCTGA  148
SCPP5-C1˙CC         TCATTATGGCAACCCGAAGCAGGGAAATAATGGTGGCTTCCAGGGA......ATACCATCACAGCCACATCCTGGTCTGA  154
SCPP5-C2˙CC         TCATTATGGCAACCCGAAGCAGGGGAATAATGGTGCTTTCCAGGGA......ATCCCATCACAGCCACATCCTGGTCTGA  154
SCPP5-C1˙SA         TCATTATGGCAACCCGAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCAGCACAGCCACATCCTGGTCTGA  154
SCPP5-C2˙SA         TCATTATGGCAACCCAAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCATCACAGCTACATCCTGGTCTGA  154
SCPP5-C1˙SG         TCATTATGGCAACTCGAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCAGCACAGCCACATCCTGGTCTGA  154
SCPP5-C2˙SG         TCATTATGGCAACCCAAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCATCACAGCCACATCCTGGTCTGA  154
SCPP5-C1˙SR         TCATTATGGCAACCCGAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCAGCACAGCCACATCCTGGTCTGA  154
SCPP5-C2˙SR         TCATTATGGCAACCCAAAGCAGGGGAATAATGGTGGCTTCCAGGGA......ATACCATCACAGCTACATCCTGGTCTGA  154

                   165       170       175       180       185       190       195       200       205       210       215       220       225       230       235       240
conservation        *  ***!!*!!!!!*!!!!!*!!*!*!!*!!*!!*****!!!!!*****!  !!!*!*!!!*!!*!!*!*  !*****!*!***!*
SCPP5˙AM            ACGCCCCCATCAGTATGGAGATTGTCTTTCCTCCACAGTTCCAGGGATCTCCAGTAGGAGGAGCTGGTGCTGGACCTGCT  240
SCPP5˙PN            CC...CCCATCAGTATGGAGATTGTGTTTCCTCCACAGTTCCCACGCACC...GCAGGGGGGCTGGCGCCGGAGCATCT  231
SCPP5˙CI            CTGCTCCAATCAGCATGGAAATCATTTTCCCACCGAGATTCCCTACTAATCCAGCAGGGGGAGCAGCTGGCACATCGTCA  228
SCPP5˙DR            ATGCTCCGATCAGCATGGAAATCATTTTCCCTCCGCGATTCCCTGCTAATCCAGCAGGAGGAGCAGCGGGAACATCGTCA  234
SCPP5˙LW            ACGCTCCAATCAGCATGGAAATCATTTTCCCACCGAGCTTCCCAACTAATCCAGCAGGGGGCGCAGCGGGCAAATCGTCA  231
SCPP5˙PP            ACGCACCAATCAGCATGGAAATCATTTTCCCACCGAGATTCCCTACTAATCCAGCAGGGGGCAAAGCGGGCACATCGTCA  228
SCPP5-C1˙CC         ACGCTCCAATCAGCATGGAAATCATTTTCCCTCCGCGATTCCCCGCTACTCCAGTAGGGGGAGCAGCTGGCGCATCGTCA  234
SCPP5-C2˙CC         ATGCTCCAATCAGCATGGAAATTATTTTTCCTCCGCAATTCCCTGTCAGTCCGGTAGGGGGAGCAGCGGGCACATCGTCA  234
SCPP5-C1˙SA         ACACTCCAATCAGCATGGAAATCATTTTCCCTCCGCGATTCCCTGCTACTCCA...GGAGGAGCAGCTGGCACATCGTCA  231
SCPP5-C2˙SA         ATGCTCCAATCAGCATGGAAATTATTTTTCCTCCGCGATTCCCTGCTAGTCCAGTAGGGGGAGCAGCGGGCACATCGTCA  234
SCPP5-C1˙SG         ATGCTCCAATCAGCATGGAAATCATTTTCCCTCCGCGATTCCCTGCTACTCCAGTAGGAGGAGCAGCTGGCGCATCGTCA  234
SCPP5-C2˙SG         ATGCTCCAATCAGCATGGAAATTATTTTTCCTCCGCGATTCCCTGCTAGTCCAGTAGGGGGAGCAGCGGGCACATCGTCA  234
SCPP5-C1˙SR         ACGGTCCATTCAGCATGGAAATCATTTTCCCTCCGCGATTCCCTGCTACTCCAGTAGGAGGAGCAGCTGGTACATCGGTG  234
SCPP5-C2˙SR         ATGCTCCAATCAGCATGGAAATTATTTTTCCTCCGCGATTCCCTGCTAGTCCAGTAGGGGGAGCAGCGGGCACATCGTCA  234

                   245       250       255       260       265       270       275       280       285       290       295       300       305
conservation        *!*!*******!  *!*!!!!!!*!!!!!*!!*!!*!*!!*!***!!!*!!!!!!*!*!!*!!*!!*!*!*!*
SCPP5˙AM            TTCCCATCCCAGGGCTTCATCAAATACTCTCTTCCTAAGGTTCCCGGCAGAAAGAGTGTGGAAATT  306
SCPP5˙PN            TTTCCATCCCAGGCCTACATCAAATACTCTCTCCCCAAGGCTCCAGGTGCCCAGAGCGTGGAAGTT  297
SCPP5˙CI            TTCCCAGCACAAGGGTTCATCAAGTACTCTCTCCCAAAGGCTCCCGGCAGAAAAAGCGTGGAAATC  294
SCPP5˙DR            TTCCCCACACAAGCGTTCATCAAGTACTCGCTCCCCAAAGCTCCCGGCAGAAAAAGCGTTGAAATC  300
SCPP5˙LW            TTCCCTACACAAGCGTTCATCAAGTACTCTCTCCCCAAGGCTCCGGGCAGAAAAAGCGTGGAAATT  297
SCPP5˙PP            TTCCCTACACAAGCGTTCATCAAGTACTCTCTCCCCAAGGCTCCCGGCAGAAAAAGCGTGGAAATC  294
SCPP5-C1˙CC         TTCCCTACACAAGCGTTCATCAAATACTCTCTCCCTAAAGTTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C2˙CC         TTCCCTACACAAGGGTTCATCAAGTACTCTCTCCCTAAAGCTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C1˙SA         CTGATGCAGAGTGTTGCTTTAGCCTTTGCAAATGTCTCATTAAATTGCAGAGATAAACATAATTTT  297
SCPP5-C2˙SA         TTCCCTACACAAGGGTTCATCAAGTACTCTCTCCCTAAAGCTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C1˙SG         TTCCCTACACACGCGTTCATCAAATACTCTCTCCCTAAACTTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C2˙SG         TTCCCTACACAAGGGTTCATCAAGTACTCTCTCCCTAAAGCTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C1˙SR         AGTCAGTAAAGTTCGTTCATCAAATACTCTCTCCCTAAACTTCCCGGCAGAAAAAGCGTGGAAATC  300
SCPP5-C2˙SR         TTCCCTACACAAGGGTTCATCAAGTACTCTCTCCCTAAAGCTCCCGGCAGAAAAAGCGTGGAAATC  300
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X non conserved
X ≥ 55% conserved
X ≥ 85% conserved