```
MEQRWGLLRRVQQWSPRPSQTIYRRVEGPQLEHLEEE..DREEGAELPAQFCPMELKGPEHLGSCPGRSIPIPWAAAGRKAAPYLVLITLLIFTGAFLLGYVAFRGSCQACGDSVLVVDE    118
MEQRWGLLRKVQQWSPRPSQTIYRRVEGPQLENLEEE..DREEGEELPAQFCPMELKGPERLGSCPGRSIPIPWAAAGRKAAPYLVLTTLLIFTGAFLLGYVAFRGSCQACGDSVLVVGE    118
MERLWGLFQRAQQLSPRSSQTVYQRVEGPRKGHLEEEEDGEEGAETLAHFCPMELRGPEPLGSRPRQPNLIPWAAAGRRAAPYLVLTALLIFTGAFLLGYVAFRGSCQACGDSVLVVSE    120
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DVNPE...DSGRTTLYWSDLQAMFLRFLGEGRMEDTIRLTSLRERVAGSARMATLVQDILDKLSRQKLDHVWTDTHYVGLQFPDPAHANTLHWVDADGSVQEQLPLEDPEVYCPYSATGN    235
DVNSE...DSSRGTLYWSDLQDMFLRFLGEGRMEDTIRLTSLRERVAGSARMATLVQDILDKLSRQKLDHVWTDTHYVGLQFPDPAHPNTLHWVGADGSVQEQLPLEDPEVYCPYSATGN    235
DVNYEPDLDFHQGRLYWSDLQAMFLQFLGEGRLEDTIRQTSLRERVAGSAGMAALTQDIRAALSRQKLDHVWTDTHYVGLQFPDPAHPNTLHWVDEAGKVGEQLPLEDPDVYCPYSAIGN    240
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ATGKLVYAHYGRSEDLQDLKAKGVELAGSLLLVRVGITSFAQKVAVAQDFGAQGVLIYPDPSDFSQDPHKPGLSSHQAVYGHVHLGTGDPYTPGFPSFNQTQFPPVESSGLPSIPAQPIS    355
ATGKLVYAHYGRREDLQDLKAKDVELAGSLLLVRAGITSFAQKVAIAQDFGAHGVLIYPDPADFSQDPHKPGLSSDRAVYGHVHLGTGDPYTPGFPSFNQTQFPPVESSGLPNIPAQPIS    355
VTGELVYAHYGRPEDLQDLRARGVDPVGRLLLVRVGVISFAQKVTNAQDFGAQGVLIYPEPADFSQDPPKPSLSSQQAVYGHVHLGTGDPYTPGFPSFNQTQFPPVASSGLPSIPAQPIS    360
*!*!!**!!!!!* !!!!!!*! ***!**!!!!!*!!*!!**!!!** !!!!!!*!!!!!!* !!!!!!**!*!!**!* *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!*!!!!!!

ADIADQLLRKLTGPVAPQEWKGHLSGSPYRLGPGPDLRLVVNNHRVSTPISNIFACIEGFAEPDHYVVIGAQRDAWGPGAAKSAVGTAILLELVRTFSSMVSNGFRPRRSLLFISWDGGD    475
ADVADRLLRKLTGPVAPQEWKGRLSDSPYRLGPGPGLRLVVNNHRTSTPISNIFACIEGFAEPDHYVVIGAQRDAWGPGAAKSAVGTAILLELVRTFSSMVSSGFRPRRSLLFISWDGGD    475
ADIASRLLRKLKGPVAPQEWQGSLLGSPYHLGPGPRLRLVVNNHRTSTPINNIFGCIEGRSEPDHYVVIGAQRDAWGPGAAKSAVGTAILLELVRTFSSMVSNGFRPRRSLLFISWDGGD    480
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FGSVGATEWLEGYLSVLHLKAVVYVSLDNSVLGDGKFHAKTSPLLVSLIENILKQVDSPNHSGQTLYEQVALTHPSWDAEVIQPLPMDSSAYSFTAFAGVPAVEFSFMEDDRVYPFLHTK    595
FGSVGATEWLEGYLSVLHLKAVVYVSLDNSVLGDGKFHAKTSPLLVSLIENILKQVDSPNHSGQTLYDQVAFTHPSWDAEVIQPLPMDSSAYSFTAFAGVPAVEFSFMEDDRVYPFLHTK    595
FGSVGSTEWLEGYLSVLHLKAVVYVSLDNAVLGDDKFHAKTSPLLTSLIESVLKQVDSPNHSGQTLYEQVVFTNPSWDAEVIRPLPMDSSAYSFTAFVGVPAVEFSFMEDDQAYPFLHTK    600
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EDTYENLHKMLRGRLPAVVQAVAQLAGQLLIRLSHDHLLPLDFGRYGDVVLRHIGNLNEFSGDLKERGLTQWVYSARGDYIRAAEKLRKEIYSSERNDERLMRMYNVRIMRVEFYFLSQ    715
EDTYENLHKMLRGRLPAVVLAVAQLAGQLLIRLSHDHLLPLDFGRYGDVVLRHIGNLNEFSGDLKARGLTQWVYSARGDYIRAAEKLRKEIYSSEQSDERLMRMYNVRIMRVEFYFLSQ    715
EDTYENLHKVLQGRLPAVAQAVAQLAGQLLIRLSHDRLLPLDFGRYGDVVLRHIGNLNEFSGDLKARGLTQWVYSARGDYIRAAEKLRQEIYSSEERDERLTRMYNVRIMRVEFYFLSQ    720
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YVSPADSPFRHIFLGQGDHTLGALVDHLRMLRADGSGAASSRLTAGLGFQESRFRRQLALLTWTLQGAANALSGDVWNIDNNF    798
YVSPADSPFRHIFLGQGDHTLGALVEHLRMLRSDGSGAASSGLSPGLGFQESRFRRQLALLTWTLQGAANALSGDVWNIDNNF    798
YVSPADSPFRHIFMGRGDHTLGALLDHLRLLRSNSSGTP..GATSSTGFQESRFRRQLALLTWTLQGAANALSGDVWNIDNNF    801
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X non conserved
X ≥ 50% conserved