

A

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1 ctttttagtcacctgtgtaataagatagtaaataatagtagca ATG ACG ACT AGA GAT TTG CTT TCT TTG CAC GAA ACT GTC TCT 83
1 M T T R D L L S L H E T V S 14

84 CGG TTT GAA GGA ATT GTT GAG CAA CCG TGC TTT TTT CTG ACT TCT TTA TGT CCA GAT AAC TGC GGG CAT GGA GGA 158
15 R F E G I V E Q P C F F L T S L C P D N C G H G G 39

159 TCA ACC GCT GTC TTT GCT ATA CAA GAG TAT TTA AAT TAT GAA AAA CCT GGT GAA TAT GGT GAC CCT AAA TCG GAA 233
40 S T A V F A I Q E Y L N Y E K P G E Y G D P K S E 64

234 AAG TAC CAC GTT CGT TTA AAA GAT TCC AAG GAA GCA ACT GGT TTG ACA AAA GAA CGA CTA GAT CTT TTA AAG AGT 308
65 K Y H V R L K D S K E A T G L T K E R L D L L K S 89

309 TTG GTA ATT GGA GAC ATA GTG TTG CTA TCT TGG AAT CAT GAT TAT GTT CAT AAA GAA GGT TGC AGT TAT CCT GAG 383
90 L V I G D I V L L S W N H D Y V H K E G C S Y P E 114

384 AGA CCT ATT ACA AAA CTG GTT AGG TTT GAG CAT GAT ACT GCA TCA AAT TAG gacaaggcctagaaatgaatttttataataac 466
115 R P I T K L V R F E H D T A S N * 131

467 agaaaatgttctaattattataaaaacatTTTTgttattatttgTTTTgtaacaaaataatTTTTaattttataactatttctggtacaatgcataatgtaatt 566

567 ttttttgtaaatttataataaatcggaattaattttaaattaaattcaa 616

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B

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Hydra -----MTR-----DLLSLHETVSRFEGIVEQPCFFLTSLCPDNCGHGGSTAVFAI
flp1 -----MATEETTYDLLSRHEVIAEFQGLQHI PCRFMTSLCPDRCDHATDVALFKV
flp2 MAQYQDEVILMAQYQDEVTLARHETIAEFEGIQHI PCRFRTAECPDRCNHATDVAIFKV
flp3 -----MTEENPKIDVLSIHETVSEFIGVRQILCKFKTALCPDRCGHCADVYTFKV
          * ** * * * * * * * * *

Hydra QEYLNIEKPGEGYDGPKEKYHVRLKDSKEATGLTKERLDLLKS-LVIGDIVLLSWNHDIYV
flp1 LEYTKYEKPGEGYDGPKEHETIYVDVK--KKVFNQDPKIQEYCKT-LEVGKKYRVCYDHLIYL
flp2 LEYTKYEKPGEGYDGPKEKIRVDIK--KQIFNQDPKIQEFCKSHLEVGKKYRVCYDHLIYL
flp3 LEYTKYEKPGEGYDQKELHINTK--EHVFGQDPSILEKCKH-LEEGKKYRVCYKHLIYL
          ** ***** * * * * *

Hydra HKEGCSYPERPITKLVRFEHDTASN
flp1 NRNGSRW-----
flp2 KQNGMNRPERPTTEVTPL-----
flp3 DDGSNARPERPFTEISPIN-----

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C

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cDNA with spliced leader B ctttttagtcacctgtgtaataagatagtaaataatagtagca ATG ACG ACT...
cDNA with spliced leader D aaacagtttctatTTTgtgTTaataagatagtaaataatagtagca ATG ACG ACT...
genomic spliced leader D ...aaacagtttctatTTTgtgTTaataaggtatgcaccataaaagtttacatct...

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