

**Table S1.** DNA constructs used in this study

<i>DNA construct</i>	<i>Primers</i>
<i>pET_APRc<sub>144-231</sub>HisShort</i>	forward primer: 5'-GCCTCTGATATTGCACTGAC-3' reverse primer: 5'-CATATGTATATCTCCTTCTTAAAGTTAAACAAA-3'
<i>pET_APRc(Δ160-164)<sub>110-231</sub>HisShort</i>	forward primer: 5'-TATACCCGTACGTACCTGACG-3' reverse primer: 5'-ATC GAAACCCAGTTTCTGC-3'
<i>pET_APRc(Δ157-166)<sub>110-231</sub>HisShort</i>	forward primer: 5'-CGTACGTACCTGACGGCC-3' reverse primer: 5'-CAGTTTCTGCGCATCTTCTT-3'
<i>pET_APRc(Δ150-166)<sub>110-231</sub>HisShort</i>	forward primer: 5'-CGTACGTACCTGACGGCC-3' reverse primer: 5'-CGTCAGTGCAATATCAGAGG-3'
<i>pET_APRc<sub>110-173</sub>HisShort</i>	forward primer: 5'-CACCACCACCACCACCAC-3' reverse primer: 5'-GTTGGCCGTCAG GTACGT-3'
<i>pET_APRc<sub>110-189</sub>HisShort</i>	forward primer: 5'-CACCACCACCACCACCAC-3' reverse primer: 5'-GCCGATAACCAC GCTGTT-3'
<i>pET_APRc<sub>110-218</sub>HisShort</i>	forward primer: 5'-CACCACCACCACCACCAC-3' reverse primer: 5'-TTTAAAACGTTC CAGCAGAGAC-3'
<i>pET_APRc<sub>110-225</sub>HisShort</i>	forward primer: 5'-CACCACCACCACCACCAC-3' reverse primer: 5'-ATC TTTATCGATGCGGAAACC-3'
<i>pCoofy_HisAPRC<sub>110-231</sub>-avi</i>	forward primer: 5'GGATCCGGACTGAACGACATCTTC-3' reverse primer: 5'-GGGCCCTGGAACAGAACTTC-3' forward primer: 5' AAGTTC TGTTCAGGGGCCCCGAAGTTGGCGAAATTATCATT-3' reverse primer: 5' GAAGATGTCGTTCCAGTCCGGATCCATAATTCAGAATCAGCAGATCTTTAT-3'