logo	TageATeACeesaGTACeATeaCageAeGaCaCTeCCACCTTCTAACCCCAACCCCATGTTGTAGGGTTCAGAACATGGTGCAAAGTGGCTGAGGACCTAGATCAGCAATCGGGAGAGCTG	
Proband pri Proband sec RefSeq	TAGGATGACAAAGTACGATTACTGGATGTCTCCCACCTTCTAACCCCAACCCCATGTTGTAGGGTTCAGAACATGGTGCAAAGTGGCTGAGGACCTAGATCAGCAATCGGGAGAGCTG TTGCATYACCKTGTACTATGTCAGAACGACRCTACCACCTTCTAACCCCAACCCCATGTTGTAGGGTTCAGAACATGGTGCAAAGTGGCTGAGGACCTAGATCAGCAATCGGGAGAGCTG	120 120 0
nerseq		O
logo	GCTCTCACCCAGCCCTGCTACTCACTTCCTTGGAACATTTGCTTCCATTCTCTGGGCCcscagCTTCCTgATctaaAAatGAGGGGttgTeTCaGGGGATCcCTaGGGtcccTTcTaACt	
Proband pri Proband sec RefSeq	GCTCTCACCCAGCCCTGCTACTCACTTCCTTGGAACATTTGCTTCCATTCTCTGGGCCCCAGCTTCCTCATCTAAAAATGAGGGGGGTTGTGTCAGGGGATCCCTAGGGTCCTTTCTAACT GCTCTCACCCAGCCCTGCTACTCACTTCCTTGGAACATTTGCTTCCATTCTCTGGGCCCCAGCTTCCTCATCTAAAAATGAGGGGGTTGTGTCAGGGGATCCCTAGGGTCCTTTCTAACT	240 240 60
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logo	CAGACATER FOR THE CITY OF ECCEPTIFIED TO ACCOMMOND THE CONTROL OF	
Proband pri Proband sec	CAGACATTGTTGGCTTACCTTTGGTCCCCCTGTGTCACGGTACCATTGACAAACAA	360 360 103
RefSeq	1COALTIGITIGICAAIGGIACOGIGACACAGGGGGCCAAAG	103
logo	CCTGAAAGAGAAAAAAGTCAATAGTAGTGATTATTACTCCTCTCAAAAAATGAATACATTGATTAAGAATCATTATCTACGTAACCTTTTCTCAGCAGAAAAAC&CCGCA&&AAAGAA&A	
Proband pri Proband sec RefSeq	CCTGAAAGAGAAAAAGTCAATAGTAGTGATTATTACTCCTCTCAAAAAATGAATACATTGATTAAGAATCATTATCTACGTAACCTTTTCTCAGCAGAAAAC <mark>C</mark> CCGCA <mark>CC</mark> AAAGAA <mark>A</mark> A CCTGAAAGAGAAAAAGTCAATAGTAGTGATTATTACTCCTCTCAAAAAATGAATACATTGATTAAGAATCATTATCTACGTAACCTTTTCTCAGCAGAAAAC <mark>G</mark> CCGCA <mark>GG</mark> AAAGAA <mark>G</mark> A	479 479 103
1		

 \overline{X} non conserved $\overline{X} \geq 50\%$ conserved