logo	CCACTGGGAGGCAGCTTATTAGGCAGCTGCCAGGAGGTCTCCCTCC	
Proband RefSeq	CCACTGGGAGGCAGCTATTATGGCAGCTGCCAGGAGGTCTCCCTCC	120 0
logo	TAAAAGGAGGCCAATCCCCTGTTGTGGCAGCTCACAGCTATTGTGGTGGGAAAGGGAGGG	
Proband RefSeq	TAAAAGGAGGCCAATCCCCTGTTGTGGCAGCTCACAGCTATTGTGGTGGGAAAGGGAGGG	240 97
logo Proband	CTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCTAGGGTGGGCGGCACCATTGTCCAGCAGCTGAGTTTCCCAGGG	360
RefSeq	CTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCTAGGGTGGGCGGCACCATTGTCCAGCAGCTGAGTTTCCCAGGG CTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCTAGGGTGGGCGGCACCATTGTCCAGCAGCTGAGTTTCCCAGGG	217
logo	ACCTT GGAGATAGCCGCAGCCT CATTT GCAGGGAAGGAAGGAAGGAAGGAAGGAAGGAAGATGTGTGGGAAGGAAGATGCAGGACTGATCCCTGCTCCTGGGGAAGCTGAAG	
Proband RefSeq	ACCTTGGAGATAGCCGCAGCCCTCATTTGCAGGGGAAGGTATGGCCTTTGGAAGGAGGGGGCTGGCT	480 255
logo	TTCTCTGTCGCTGGACTAGAAAGGGCTTAGAAA	
Proband RefSea	TTCTCTGTCGCTGGACTAGAAAGGGCTTAGAAA 513	



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

logo	TTTTTATAAATTTGTTTGGGGTGTAGGGGTGTTTGGGGAGGGCAAGGCAGTTAATTAA	
Proband RefSeq	TTTTTATAAATTTGTTTGGGGTGTAGGGGATAGGGGGTGTTTGGGGGAGGGCAAGGCAGTTAATTAA	120 0
logo	TACTICTAATACCATTICCTTICATTGTTTCCTTTTGGTAATTAAAAGGAGGCCAATCCCCTGTTGTGGCAGCTCACAGCTATTGTGGGAAAGGGAGGG	
Proband RefSeq	TACTTCTAATACCATTTCCTTTCATTGTTTCCTTTTGGTAATTAAAAGGAGGCCAATCCCCTGTTGTGGCAGCTCACAGCTATTGTGGTGGAAAGGGAAGGGATGTTGACA GTGGCAGCTCACAGCTATTGTGGTGGAAAGGGAGGGTTGGTGGATGTCACA GTGGCAGCTCACAGCTATTGTGGTGGAAAGGGAGGGTTTGTGGTGGATGTCACA	240 55
logo	GCTTGGGCTTTATCTCCCCCAGCAGTGGGGACTCCACAGCCCCTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCT	
Proband RefSeq	GCTTGGGCTTTATCTCCCCCAGCAGTGGGGACTCCACAGCCCCTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCT GCTTGGGCTTTATCTCCCCCAGCAGTGGGGACTCCACAGCCCCTGGGCTACATAACAGCAAGACAGTCCGGAGCTGTAGCAGACCTGATTGAGCCTTTGCAGCAGCTGAGAGCATGGCCT	360 175
logo	AGGGTGGGGGACCATTGTCCAGCAGCTGAGTTTCCCAGGGACCTTGGAGATAGCCGCAGCCTCATTTGCAGGGGAAGGAA	
Proband RefSeq	AGGGTGGGCGCACCATTGTCCAGCAGCTGAGTTTCCCAGGGACCTTGGAGATAGCCGCAGCCCTCATTTGCAGGGGAAGGTATGGCCTTTGGAAGGAGAGCTGGCTCAGTTGTGGGAGG AGGGTGGGCGGCACCATTGTCCAGCAGCTGAGTTTCCCAGGGACCTTGGAGATAGCCGCAGCCCTCATTTGCAGGGGAAG	480 255
logo	AAGATGCTAGGACTGATCCCTGCATAGAAGATAAGCCAGTCG	
Proband	AAGATGCTAGGACTGATCCCTGCATAGAAGATAAGCCAGTCG 526	

RefSeq

526 255

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