

[illegible]

logO	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	236
Father	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	229
Mother	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	234
Sister	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	233
Brother	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	237
Proband	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	6
RefSeq	AGGGCTGGGTCAAGGACTGGCCCTTGCCGGAGGCAGGGAGAGCTGACCTCTGTGAATTCGGGCTTCGTACCTAGAATGTCCTGTGCCCTTTCTGAACCTTGCCTTTGCCCTCAGTTCCTG	

logO	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	
Father	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	356
Mother	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	349
Sister	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	354
Brother	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	353
Proband	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGGTGAGAGTCCTCCCCCTCCCTGGT	357
RefSeq	GAAGCCTGGGTCCCGGACCACCAGCCCTGTCAGATCTGCACATGCCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACGGCCAAAGG	103

logO	GCC TTC AT GGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGGGGGGCTTCA																																																																																																				extra	GTG
Father	GCCTTCATGGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGGGGGGCTTCA																																																																																																				.....	468
Mother	GCCTTCATGGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGGGGGGCTTCA																																																																																																				.....	461
Sister	GCCTTCATGGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGGGGGGCTTCA																																																																																																				.....	466
Brother	GCCTTCATGGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAT..GGGTGGGCTTCA																																																																																																				GGTGTGTG	471
Proband	GCCTTCATGGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGAATGGGCTTCA																																																																																																				CAAAGGT.	476
RefSeq	GCC TTC AT GGAGGAACAAGGGCCCCCTGCAAGGCCCCCCAGCCACCCATCTTCACCTCTGGCAGAGCAGACTCAAACACTGGCACCTAGAGTCTAGAGTGGGGGGGGCTTCA																																																																																																					103



	logos	
Father	.....	468
Mother	.....	461
Sister	.....	466
Brother	GTCATGCTCACCATAAGGGGCTCGGGATTTTATAAGCACAAAGTGCAGATGTCACAGAGTCAGCTCTCTCTGCCTCCGGCAAGGGCCAGTCCCTGACCCAGGCCTCTGACAAACCTCACA	591
Proband	.CTGTCTCGACATGGACAGGACTCGTTGTCTGAATGTCCGACCTTTAGACTTTTCTGTGTTGGCAGTGA.....	544
RefSeq	.....	103

logo

	GGCAAACAAAAGCAAGCTGAAAGGAGGTTGTGAAGTTCTAATGGCTTTT CAGAAAGTGGTTGCCACATTTGCTTTGTAAACTAACATGCGTAAATTTTT CAGCTAGACCCCTTCTCTGTTG	
Father	.....	468
Mother	.....	461
Sister	.....	466
Brother	GGCAAACAAAAGCAAGCTGAAAGGAGGTTGTGAAGTTCTAATGGCTTTT CAGAAAGTGGTTGCCACATTTGCTTTGTAAACTAACATGCGTAAATTTTT CAGCTAGACCCCTTCTCTGTTG	711
Proband	.....	544
RefSeq	.....	103

logo

	GCAGTGGA	
Father	.....	468
Mother	.....	461
Sister	.....	466
Brother	GCAGTGGA	719
Proband	.....	544
RefSeq	.....	103

 non conserved  
 ≥ 50% conserved