logo

Father	...AAGCAAGTAGCCTCCTCCTTTTAGTT.AAATGAGACTTCCTTGTGGGAAAGGGGAGCGTTTTGGTTCCTAATGAGAGCTTTCTTTTGCAGGGAAAATCCTGGATGAGCTTTTGCAGA	116
Mother	.TAGCCAATGTTGGCTCCTCCTTTTAGTT.AAATGAGACTTCCTTGTGGGAAAGGGGAGCGTTTTGGTTCCTAATGAGAGCTTTCTTTTGCAGGGAAAATCCTGGATGAGCTTTTGCAGA	118
Sister	..AACCACTGTTGCCTCCTCCTTTTAGTTCAAATGAGACTTCCTTGTGGGAAAGGGGAGCGTTTTGGTTCCTAATGAGAGCTTTCTTTTGCAGGGAAAATCCTGGATGAGCTTTTGCAGA	118
Brother	TTTCTATAGGAGGGCTCCTCCTTTTAGTT.AAATGAGACTTCCTTGTGGGAAAGGGGAGCGTTTTGGTTCCTAATGAGAGCTTTCTTTTGCAGGGAAAATCCTGGATGAGCTTTTGCAGA	119
Proband	...CCCGCATTCTGCTCATCTATTTTCGCCAAATGAGACTTCCTTGTGGGAAAGGGGAGCGTTTTGGTTCCTAATGAGAGCTTTCTTTTGCAGGGAAAATCCTGGATGAGCTTTTGCAGA	117
RefSeq	....GGAAAATCCTGGATGAGCTTTTGCAGA	27

logo

Father	CCTGCGTTGACCCTGAAGACTGCCCGGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAAGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTGGTAAAACAGAT	236
Mother	CCTGCGTTGACCCTGAAGACTGCCCGGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAAGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTGGTAAAACAGAT	238
Sister	CCTGCGTTGACCCTGAAGACTGCCCGGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAAGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTGGTAAAACAGAT	238
Brother	CCTGCGTTGACCCTGAAGACTGCCCGGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAAGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTGGTAAAACAGAT	239
Proband	CCTGCGTTGACCCTGAAGACTGCCCGGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAAGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTGGTAAAACAGAT	237
RefSeq	CCTGCGTTGACCCTGAAGACTGTCCAGTGTGTGAGGTGGCTGGCCGGCGTTTTGCCTCAGGAAAGAAAGTCACCTTGAATCCCAGTGACCCTGAGCACTGCCAGATTTG..........	136

logo

Father	TCCTGGGTTGTTTGAAGTGACGAATCTTATTGCTTT.CCAGGGGCACATAAC.GTTAGGTGTTTAGTTATCCTAATTGGTGGTTTTGGCGGTTCATGG.GTTCAAGGTCTAGGAGGAGGA	353
Mother	TCCTGGGTTGTTTGAAGTGACGAATCTTATTGCTTCTCCAGGGGCACAGCATAGTCCAGTGCTTCCTTTTACTATTATCTTGTTTTTGCGGGCCATG.TGGACAAATA...........	345
Sister	TCCTGGGTTGTTTGAAGTGACGAATCTTATTGCTTTCCCAGGGGCACAAACGAGTCC...GCTTCCTTTTAGTAGTAACTGGTGTTGGCTCTTGATGATTGTCCTAGATCCCTGAGCGAG	355
Brother	TCCTGGGTTGTTTGAAGTGACGAATCTTATTGCTTT.CCAGGGGCCAAA.....CAGGGAATGGCGAACGTTCCTGGCGGCAATGGAGGTAGAGGGCATTCGAGGAAGAGGAGGAGGA	353
Proband	TCCTGGGTTGTTTGAAGTGACGAATCTTATTGCTTTCCCAGGGGCCAAAATGGTTA....CCTCCAATTGCCAGTTGTCAGGACTACACAGCGCTA.TAGTGGTGCAAACCGATAAAGA	352
RefSeq	....	136

logo

Father	GTG.....................................	356
Mother	....	345
Sister	CTGGGGGG................................	363
Brother	GCGGGACAGAGACTCAGAGGAGGTCCGAGGTGAGCAGCAAAGCCTTGCCATTGCCAAGACCTATTCCTGAGCTTCCTTGCTGGCCCCATTTTATTTGAAGCTATGGAAACAGAGAGAGGA	473
Proband	TGAGAATCCTCCCCTCTATTGACTCTCTCCTGGAAGGAGAGGGGTGACGG..	402
RefSeq	....	136

X̄ non conserved

X ≥ 50% conserved