



*SAMD9L* (NM\_152703.5) - cDNA - 2024-12-22

ACTCTGACAC ACCCTCAGAA AGTCAGAGTA CTGGGAGAAC AGAAGACTTC -1185  
ACAATTTAAT GCCTCAGTTT TTAATAAAGG ATCCTTACAC TTCATGTCTC -1135  
CTAGCCATCA GAAGAGGAAT GAGACAGCAA AAGTTCAAAT GGCCTGTTTC -1085  
AAGTTTCTGA TATAAACGA TGACATTTTC AGGAAAATCC TGCATTTCCA -1035  
GAGAGAGACT GGCCTGGTTAA ATTTCTGAAA GAGGACACCA GCTAAAAGAA -985  
GGTATTGCAT CTCACCCGAG CAGACTGTGT CTGTGGAAAG TGTAAGCCCC -935  
TTGCCAGAAG AGCAGCTTCC CAGCAAAGGC AGAGGGTGAA AACAGCAAAG -885  
GTCTTAAGAC ACTGGGGACC TAGAGTCAAA AGGGACCTCC TCCAGGGAAA -835  
ACGCTGTGTG AGAAATGGCC TCATTCGGTG ACTGTGAGTG ACACAGCAGA -785  
AAGTTGGGTC ATTCCGGCTG CTTTTTTGAG AAGTCCCTGA AGAGATCAAT -735  
AACAGCAAGA GGAACCTGG CAAGGAAGCT ATTCCTATAA TCCAGGAAAG -685  
AGATGAGGAA GGCTTGGACC AGGTGGTAGT GGTGTCAGGT AGTCAAATGC -635  
TGGGTATATT TTGAAGATAC ACCCCATAGG ATTTGCTCCA CATTGAATGT -585  
GGAATGCTGG AAGAGAGATA AAGTGTACCT GTCACATACT TTTTGAGTTT -535  
TATTTATTTT CTTAGAAGTA AGTACACAAA GAGATGCTAC CTAGGAGAAG -485  
GGTATTCTTT TCACTATTCT TTCAAATTTT CTGTATGTTT AACATTTTC -435  
ATAGTAGAAA GTTGGGGGGA AAATCTGTTT CATAAACATT TCCTCAGCAG -385  
CAGTCCAGTC TATTGCATTT TAATGGTTG TGATATCATT GTTTTATGCA -335  
ATACGTTCTC AACAAGTATA TCCTCCGGCA AACTGAACAA GGACCAAGTC -285  
TGTTCTGCCT ACAGCTCTGC TTCCTCATAG CTGCTTTCCA GAACGTGACT -235  
CTTGCAAAT ATCAAGAAAG GGGAACATAA CTAAGGGATC CAGATCAAAC -185  
AGCCTCATGA AGACTTATTT TATGTTTCTA ATATAAAGAT AGAAGTTTTT -135

AGAAAAGCCC TGCTACACAG AGGATCAGAG CAGGGGTGGG CCTGCTGGGC -85  
TGCAGCTGGG ATTCTGAGCA TCCTTTCCCG GAGGCACGGA AAGTGAGTGA -35  
GTGAGCCCAG TGAGGAAGAA GTTGAAGCTT TGATATGAGT AAACAAGTAT 16  
CTCTACCTGA AATGATTAAA GACTGGACCA AAGAGCATGT GAAAAAATGG 66  
GTAAATGAAG ACCTTAAGAT TAATGAGCAA TACGGGCAAA TTCTGCTCAG 116  
TGAAGAAGTA ACAGGATTAG TCCTGCAGGA ATTAAGTGTG AAGGACCTTG 166  
TAGAAATGGG GCTACCATGG GGTCCAGCAC TTTTGATAAA ACGTTCATAC 216  
AACAAATTGA ATAGTAAGTC CCTTGAAAGT GACAATCATG ATCCGGGACA 266  
ATTAGATAAT TCAAAACCGT CAAAACAGA ACACCAGAAA AATCCAAAAC 316  
ACACCAAAAA GGAAGAAGAA AATTCAATGT CATCTAATAT TGATTATGAT 366  
CCCAGAGAGA TCAGAGATAT CAAACAAGAA GAATCAATTC TTATGAAAGA 416  
AAATGTGTTA GATGAAGTAG CAAATGCTAA ACACAAGAAA AAGGGTAAGC 466  
TAAAACCTGA ACAATTGACT TGTATGCCAT ATCCTTTTGA TCAGTTCCAT 516  
GACAGCCATC GCTACATAGA ACATTATACT CTACAACCTG AAACAGGAGC 566  
ACTCAATCTC ATTGATCCAA TACATGAGTT CAAAGCTCTC ACAAACACAG 616  
AAACAGCCAC GGAAGTGGAC ATTAAGATGA AATTCAGCAA TGAAGTCTTC 666  
CGATTTGCAT CAGCTTGTAT GAATTCACGC ACCAATGGCA CCATCCATTT 716  
TGGAGTCAAG GACAAACCCC ATGGAGAAAT TGTGTTGGTGTG AAAATCACCA 766  
GTAAGGCTGC CTTCAATTGAC CACTTCAATG TAATGATCAA AAAGTATTTT 816  
GAAGAAAGTG AGATCAATGA AGCCAAGAAG TGTATTTCGGG AGCCAAGGTT 866  
TGTGGAAGTC CTTCTGCAGA ACAATACACC ATCTGACAGA TTTGTCATTG 916  
AAGTTGATAC TATTCCAAAA CACTCTATAT GTAATGATAA GTATTTCTAC 966  
AATTCAGATGC AAATTTGTAA AGATAAAAATA TGGAAACAAA ACCAAAATCT 1016  
TTCACTGTTT GTAAGAGAAG GGGCTAGCTC TAGGGATATC CTGGCCAATT 1066  
CCAAGCAACG GGATGTAGAT TTCAAGGCAT TTTTACAAAA TTTAAAGTCA 1116  
CTGGTAGCAT CTAGAAAAGA GGCTGAAGAA GAGTATGGAA TGAAGGCAAT 1166  
GAAGAAGGAG AGTGAAGGAC TAAAGCTGGT TAAACTTCTC ATAGGAAACC 1216  
GAGACTCACT GGATAATTCA TACTATGACT GGTACATTCT TGTAACAAAT 1266

AAATGCCATC CAAACCAAAT AAAGCACTTA GATTTTTTAA AAGAAATTAA 1316  
ATGGTTTGCT GTGTTGGAGT TTGATCCTGA ATCTATGATC AATGGAGTGG 1366  
TCAAAGCTTA CAAAGAAAGT CGGGTGGCAA ACCTTCACTT TCCAAATCAA 1416  
TATGAAGACA AGACAACATA CATGTGGGAG AAGATTTCTA CTCTTAATCT 1466  
TTACCAACAG CCCAGCTGGA TTTTCTGCAA CGGCAGATCA GACCTGAAAA 1516  
GCGAGACATA TAAACCTCTA GAACCACATT TATGGCAGAG AGAAAGAGCT 1566  
TCAGAAGTCA GGAAACTAAT TTTATTTCTC ACAGATGAAA ATATAATGAC 1616  
AAGAGGAAAA TTTTTGGTAG TGTTTCTATT ACTCTCTTCA GTGGAAAGCC 1666  
CAGGAGATCC ACTCATTGAA ACTTTCCTGGG CTTTCTATCA AGCTCTCAA 1716  
GGAATGGAAA ATATGTTGTG TATCTCTGTA AACTCACATA TTTATCAACG 1766  
ATGGAAAGAT CTA CTACTACAAA CAAGAATGAA GATGGAAGAT GAACTAACAA 1816  
ACCACAGTAT TTCCACTTTA AATATAGAAC TGGTAAACAG CACTATCCTT 1866  
AAACTAAAA CGGTGACTCG GTCATCAAGA AGGTTTTTGC CCGCCCCTGG 1916  
ATCTTCTTCA GTTATCCTAG AGAAAAAGAA AGAGGATGTC TTGACTGCAC 1966  
TGGAATCCT CTGTGAAAAT GAGTGTACAG AGACAGACAT CGAGAAAGAC 2016  
AAATCTAAAT TCCTGGAGTT TAAGAAATCA AAAGAAGAAC ACTTTTATCG 2066  
AGGTGGCAA GTATCCTGGT GGAACCTCTA TTTTCTTCT GAAAATATT 2116  
CTTCAGATTT TGTTAAAAGG GACAGTTATG AAAAGCTTAA AGATTTAATA 2166  
CACTGCTGGG CAGAGTCTCC TAAACCAATA TTTGCAAAAA TCATCAATCT 2216  
TTATCATCAT CCAGGCTGTG GAGGTACCAC ACTGGCTATG CATGTTCTCT 2266  
GGGACTTAAA GAAAACTTC AGATGTGCTG TGTTAAAAAA CAAGACAACT 2316  
GATTTTGCAG AAATGCAGA GCAAGTGATC AATCTGGTCA CCTATAGGGC 2366  
AAAGAGCCAT CAGGATTACA TTCCCTGTGCT TCTCCTTG TGATGATTTT 2416  
AAGAACAAGA AAATGTCTAC TTTCTACAAA ATGCCATCCA TTCCGTTTTA 2466  
GCAGAAAAGG ATTTGCGATA TGAAAAACA TTGGTAATTA TCTTAAACTG 2516  
CATGAGATCC CGGAATCCAG ATGAAAGTGC AAAATTGGCA GACAGTATTG 2566  
CACTAAATTA CCAACTTTCT TCCAAGGAAC AAAGAGCTTT TGGTGCCAAA 2616  
CTGAAGGAA TTGAAAAGCA GCA CAAGAAC TGTGAAA ACT TTATTCCTT 2666 [I876Lfs\\*15](#) [K878sfs\\*13](#) [H880Q](#) [N885Tfs\\*6](#) [F886Lfs\\*11](#) [F889sfs\\*2](#)

CATGATCATG AAAAGCAATT TTGATGAAAC ATATATAGAA AATGTAGTCA 2716 [I891T](#)  
GGAATATCCT AAAAGGACAG GATGTTGACA GCAAGGAAGC ACAACTCATT 2766  
TCCTTCCTGG CTTTACTCAG CTCTTATGTT ACTGACTCTA CAATTTCACT 2816 [p.S935Yfs\\*8](#)  
TTCACAGTGT GAAATATTTT TGGGAATCAT ATACACTAGT ACACCCCTGGG 2866  
AACCTGAAAG CTTAGAAGAC AAGATGGGAA CTTATTCTAC ACTTCTAATA 2916  
AAAACAGAAG TTGCAGAATA TGGGAGATAC ACAGGTGTGC GTATCATTCA 2966 [R986C](#) [R986H](#)  
CCCTCTGATT GCCCTGTACT GTCTAAAAGA ACTGGAAAGA AGCTATCACT 3016  
TGGATAAATG TCAAATGCA TTGAATATAT TAGAAGAGAA TTTATTCTAT 3066  
GATTC TGGA TAGGAAGAGA CAAATTTCAA CATGATGTTT AAACCTTCT 3116  
GCTTACAAGA CAGCGCAAGG TGTATGGAGA TGAAACAGAC ACTCTGTTTT 3166  
CCCCATTAAT GGAAGCTTTA CAGAATAAAG ACATTGAAA GGTCTTGAGT 3216  
GCAGGAAGTA GACGATTCCC ACAAATGCA TTCATTTGTC AAGCCTTAGC 3266  
AAGACATTTT TACATTAAG AGAAGGACTT TAACACAGCT CTGGACTGGG 3316  
CACGTCAGGC CAAAATGAAA GCACCTAAA ATTCCATATAT TTCAGATACA 3366  
CTAGGTCAAG TCTACAAAAG TGAAATCAA TGGTGGTTGG ATGGGAACAA 3416  
AAACTGTAGG AGCATTACTG TTAATGACCT AACACATCTC CTAGAAGCTG 3466  
CGGAAAAGC CTCAAGAGCT TTCAAAGAAT CCCAAAGGCA AACTGATAGT 3516  
AAAACTATG AAACCGAGAA CTGGTCACCA CAGAAGTCCC AGAGACGATA 3566  
TGACATGTAT AACACAGCTT GTTTCTTGGG TGAAATAGAA GTTGGTCTTT 3616  
ACACTATCCA GATTCCTCAG CTCACTCCCT TTTTCCACAA AGAAAATGAA 3666  
TTATCCAAA AACATATGGT GCAATTTTTA TCAGGAAAGT GGACCATTCC 3716  
TCCTGATCCC AGAAATGAAT GTTATTTGGC TCTTAGCAAG TTCACATCCC 3766  
ACCTAAAAA TTTACAATCA GATCTGAAAA GGTGCTTTGA CTTTTTTATT 3816  
GATTATATGG TTCTTCTGAA AATGAGGTAT ACCCAAAAAG AAATTGCAGA 3866 [R1281K](#)  
AATCATGTTA AGCAAGAAAG TCAGTCGTTG TTTCAGGAAA TACACAGAAC 3916  
TTTTCTGTCA TTTGGATCCA TGTCTATTAC AAAGTAAAGA GAGTCAATTA 3966  
CTCCAGGAGG AGAATTGCAG GAAAAAGCTA GAAGCTCTGA GAGCAGATAG 4016  
GTTTGCTGGA CTCTTGGAAT ATCTTAATCC AAAC TACAAA GATGCTACCA 4066

CCATGGAAAG TATAGTGAAT GAATATGCCT TCCTACTGCA GCAAAACTCA 4116  
AAAAAGCCCA TGACAAATGA GAAACAAAAT TCCATTTTGG CCAACATTAT 4166  
TCTGAGTTGT CTAAAGCCCA ACTCCAAGTT AATTCAACCA CTTACCACGC 4216  
TAAAAAACA ACTCCGAGAG GTCTTGCAAT TTGTAGGACT AAGTCATCAA 4266  
TATCCAGGTC CTTATTTCTT GGCCTGCCTC CTGTTCTGGC CAGAAAATCA 4316  
AGAGCTAGAT CAAGATTCCA AACTAATAGA AAAGTATGTT TCATCCTTAA 4366  
ATAGATCCTT CAGGGGACAG TACAAGCGCA TGTGCAGGTC CAAGCAGGCA 4416  
AGCACACTTT TCTATCTGGG CAAAAGGAAG GGTCTAAACA GTATTGTTCA 4466 [S1473N](#)  
CAAGGCCAAA ATAGAGCAGT ACTTTGATAA AGCACAAAAT ACAAATTTCC 4516  
TCTGGCACAG TGGGGATGTG TGGAAAAAAA ATGAAGTCAA AGACCTCCTG 4566 [V1512M](#) [V1512A](#)  
CGTCGTCTAA CTGGTCAGGC TGAAGGCAAG CTAATCTCTG TAGAATATGG 4616  
AACAGAGGAA AAAATAAAAA TACCAGTAAT ATCTGTTTAT TCAGGTCCAC 4666  
TCAGAAGTGG TAGGAACATA GAAAGAGTGT CTTTCTACCT AGGATTTTCC 4716  
ATTGAAGGCC CTCCTGGCATA TGATATAGAA GTAATTAAAG ACAATACATC \*11  
ACCTGTAGTT CAAATACGTT TATTTATATC TTTATGATTT TATTCTCTCT \*61  
CTCTATTCTC ATGGCAGTTT CATAACATTA TGGCTAACCT CTAATTACAG \*111  
ATTTTGCTTT TGCCTCCCTG AATGAATTAC AAGCCTTTTT AAGATATGAA \*161  
ATATGCCTAC CCGCAGAGCT TGGCACAAAG TGGAGTCAAT CTTTTAATGT \*211  
TTTAAATATG CATTTCAGA CTCAAATAAT TAAGAAGTTT CATTGATATC \*261  
CACTGGTCAC ATCATAACTG TCTATAGGGC AATAAAATCT GTGTTAAACT \*311  
CAATTGCTTT TATAAGTTTT CTAAATTATT TCTTCACTGT GACAGCAAAG \*361  
ATTTAAATAA GATGAATGTA AAAGAGAAAG CTTATTGGAC TCAAACCCAC \*411  
AGATCCACAC CAGAGTTCTA TTTACCTCAT CTTGGTATCA ATAAAACTT \*461  
ATGTGGAAGG TAAATATATT GTTCCCCATC CACCACATAA CACTCTCCCC \*511  
AACACACACA CACACACACA CACACACACA CACACACACA CACTCTCCTT \*561  
GTACCCCTTG CCCTTCTCCC AGCTCATTGC TCCAGGAGAG AGAAGAGTTC \*611  
AAAAAATAAA GTAATCATAA ACTTGAACTC TCTCCATTCT CTTGTTCCCA \*661  
TTTACAGGTG AATCTCTTCC TTTAAGCCAT TTTTGTCTCC TGTGAATACA \*711

GCCTTATCTC CACCTGTTTC TTAGATCCCA TCTCCCCTGG CTTATTTTTT \*761  
CCATTCATTA CCCTCTTTGT TCCCTTTACT TCTCAACCTG TGCTATATAC \*811  
ATGCTGTTCT CTCTGTTGAG ATTGCCTTAT TTCCATCTAA CATTCTCTCT \*861  
CCTGCTATTC TGATTTGTCA TTCACAACCTG ATTTCAAGAG TCACCTTCAC \*911  
CAGGAAGTCT TCCTTGACCA CCATCATTCC TGCCTGATTA GAGGGCTTCC \*961  
TCATGGTAAT ATGTGTTCTC AAGTTTTTCAG TGTCAAGGAA TGCCATCCCA \*1011  
GAAGCTCATT CTCAGATGCA CAACAGCCAG AACAGTCTCA AGCAGCATT C \*1061  
TAGAGCTTGG AATTTAAGAA CTACGCATTG CCTATAAAGT GAAACATAGG \*1111  
CTAATATAGA TTAAATTGAA TATTGAATAA AAAATATATT TATTTATCCA \*1161

*SAMD9L* (NM\_152703.5) - cDNA - 2024-12-22

