



UBA1 (NM_003334.4) - cDNA - 2026-04-30

ATCTTGTGTC GCGGCTCGG CTGTAAGGAG GTGGCAGGGA CAACCACAAC -147
CACAAACGGCC GGGGGAGGAG AAGGCGGCAG CGGCGATTCT AGGCGGCCCA -97
GGCGGCGGGG AGGAGGAGAA GGAGGAGGTT GCGGCGCCGG CTTGGCTTCG -47
GCTCCTTGAG GAGTTGGCGG CGGCGCGACC CGGGGAACCG GCATTGATGT 4
CCAGCTCGCC GCTGTCCAAG AAACGTCGCG TGTCCGGGCC TGATCCAAAG 54
CCGGTTCCTA ACTGCTCCCC TGCCCAGTCC GTGTTGTCCG AAGTGCCCTC 104
GGTGCCAACC AACGGATGG CCAAGAACGG CAGTGAAGCA GACATAGACG 154 c.118-1G>C G40A M41V M41L M41L_A>T M41T
AGGGCCTT~~TA~~ CTCCCGGCAG CTGTATGTGT TGGGCCATGA GGCAATGAAG 204 Y55H S56F
CGGCTCCAGA CATCCAGTGT CCTGGTATCA GGCCTGCGGG GCCTGGGCGT 254
GGAGATCGCT AAGAACATCA TCCTTGGTGG GGTCAAGGCT GTTACCCTAC 304
ATGACCAGGG CACTGCCCAG TGGGCTGATC TTTCCCTCCA GTTCTACCTG 354
CGGGAGGAGG ACATCGGTAA AAACCGGGCC GAGGTATCAC AGCCCCGCCT 404
CGCTGAGCTC AACAGCTATG TGCCGTGCAC TGCCTACACT GGACCCCTCG 454
TTGAGGACTT CCTTAGTGGT TTCCAGGTGG TGGTGCTCAC CAACACCCCC 504
CTGGAGGACC AGCTGCGAGT GGGTGAGTTC TGTCAACAAC GTGGCATCAA 554
GCTGGTGGTG GCAGACACGC GGGGCCGTGT TGGGCAGCTC TTCTGTGACT 604
TTGAGAGGA AATGATCCTC ACAGATTCCA ATGGGAGCA GCCACTCAGT 654
GCTATGGTTT CTATGGTTAC CAAGGACA~~A~~ CCCGGTGTGG TTA~~C~~CTGCCT 704 N228S T233I
GGATGAGGCC CGACACGGGT TTGAGAGCGG GGACTTTGTC TCCTTTTCAG 754
AAGTACAGGG CATGGTTGAA CTCAACGGAA ATCAGCCCAT GGAGATCAAA 804
GTCCTGGGTC CTTATACCTT TAGCATCTGT GACACCTCCA ACTTCTCCGA 854
CTACATCCGT GGAGGCATCG TCAGTCAGGT CAAAGTACCT AAGAAGATTA 904

GCTTTAAATC CTTGGTGGCC TCACTGGCAG AACCTGACTT TGTGGTGACG 954
GACTTCGCCA AGTTTTCTCG CCCTGCCCAG CTGCACATTG GCTTCCAGGC 1004
CCTGCACCAG TTCTGTGCTC AGCATGGCCG GCCACCTCGG CCCC GCAATG 1054
AGGAGGATGC AGCAGAACTG GTAGCCTTAG CACAGGCTGT GAATGCTCGA 1104
GCCCTGCCAG CAGTGCAGCA AAATAACCTG GACGAGGACC TCATCCGGAA 1154
GCTGGCATAT GTGGCTGCTG GGGATCTGGC ACCCATAAAC GCCTTCATTG 1204
GGGGCCTGGC TGCC CAGGAA GTCATGAAGG CCTGCTCCGG GAAGTTCATG 1254
CCCATCATGC AGTGGCTATA CTTTGATGCC CTTGAGTGTG TCCCTGAGGA 1304
CAAAGAGGTC CTCACAGAGG ACAAGTGCC TCCAGCGCCAG AACCGTTATG 1354
ACGGGCAAGT GGCTGTGTTT GGCTCAGACC TGCAAGAGAA GCTGGGCAAG 1404
CAGAAGTATT TCCTGTTGGG TGCGGGGGCC ATTGGCTGTG AGCTGCTCAA 1454 [G477A](#) [A478S](#) [A478T](#)
GAACTTTGCC ATGATTGGGC TGGGCTGCGG GGAGGGTGGG GAAATCATCG 1504
TTACAGACAT [GGA](#)CACCATT GAGAAGTCAA ATCTGAATCG ACAGTTTCTT 1554 [D506N](#) [D506G](#)
TTCCGGCCCT GGGATGTCAC GAAGTTAAAG TCTGACACGG CTGCTGCAGC 1604
TGTGCGCCAA ATGAATCCAC ATATCCGGGT GACAAGCCAC CAGAACCGTG 1654
TGGGTCC TGA CACGGAGCGC ATCTATGATG ACGATTTTTT CAAAACCTA 1704
GATGGCGTGG CCAATGCCCT GGACAACGTG GATGCCCGCA TGTACATGGA 1754
CCGCCGCTGT GTCTACTACC GGAAGCCACT GCTGGAGTCA GGCACACTGG 1804
GCACCAAAGG [CA](#)ATGTGCAG GTGGTGATCC CCTTCCTGAC AGAGTCGTAC 1854 [N606I](#)
AGTTCCAGCC AGGACCCACC TGAGAAGTCC ATCCCCATCT GTACCCTGAA 1904 [S621C](#)
GAACTTCCCT AATGCCATCG AGCACCCCT GCAGTGGGCT CGGGATGAGT 1954
TTGAAGGCCCT CTTCAAGCAG CCAGCAGAAA ATGTCAACCA GTACCTCACA 2004
GACCCCAAGT TTGTGGAGCG AACACTGCGG CTGGCAGGCA CTCAGCCCTT 2054
GGAGGTGCTG GAGGCTGTGC AGCGCAGCCT GGTGCTGCAG CGACCACAGA 2104
CCTGGGCTGA CTGCGTGACC TGGGCCTGCC ACCACTGGCA CACCCAGTAC 2154
TCGAACAACA TCCGGCAGCT GCTGCACAAC TTCCCTCCTG ACCAGCTCAC 2204
AAGCTCAGGA GCGCCGTTCT GGTCTGGGCC CAAACGCTGT CCACACCCGC 2254
TCACCTTTGA TGTCAACAAT CCCCTGCATC TGGACTATGT GATGGCTGCT 2304

GCCAACCTGT TTGCCAGAC CTACGGGCTG ACAGGCTCTC AGGACCGAGC 2354
TGCTGTGGCC ACATTCCCTGC AGTCTGTGCA GGTCCCCGAA TTCACCCCA 2404
AGTCTGGCGT CAAGATCCAT GTTCTGACC AGGAGCTGCA GAGCGCCAAT 2454
GCCTCTGTTG ATGACAGTCG TCTAGAGGAG CTCAAAGCCA CTCTGCCAG 2504
CCCAGACAAG CTCCCTGGAT TCAAGATGTA CCCCATGAC TTTGAGAAGG 2554
ATGATGACAG CAACTTTCAT ATGGATTTCA TCGTGGCTGC ATCCAACCTC 2604
CGGGCAGAAA ACTATGACAT TCCTTCTGCA GACCGGCACA AGAGCAAGCT 2654
GATTGCAGGG AAGATCATCC CAGCCATTGC CACGACCACA GCAGCCGTGG 2704 I894S
TTGGCCTTGT GTGTCTGGAG CTGTACAAGG TTGTGCAGGG GCACCGACAG 2754
CTTGACTCCT ACAAGAATGG TTTCTCAAC TTGGCCCTGC CTTTCTTTGG 2804
TTTCTCTGAA CCCCTTGCCG CACCACGTCA CCAGTACTAT AACCAAGAGT 2854
GGACATTGTG GGATCGCTTT GAGGTACAAG GGCTGCAGCC TAATGGTGAG 2904
GAGATGACCC TCAAACAGTT CCTCGACTAT TTTAAGACAG AGCACAAATT 2954
AGAGATCACC ATGCTGTCCC AGGGCGTGTC CATGCTCTAT TCCTTCTTCA 3004
TGCCAGCTGC CAAGCTCAAG GAACGGTTGG ATCAGCCGAT GACAGAGATT 3054
GTGAGCCGTG TGTCGAAGCG AAAGCTGGGC CGCCACGTGC GGGCGCTGGT 3104
GCTTGAGCTG TGCTGTAACG ACGAGAGCGG CGAGGATGTC GAGGTTCCCT 3154
ATGTCCGATA CACCATCCGC **TGA**CCCCGTC TGCTCCTCTA GGCTGGCCCC *27
TTGTCCACCC CTCTCCACAC CCCTTCCAGC CCAGGGTTCC CATTGGCTT *77
CTGGCAGTGG CCCAACTAGC CAAGTCTGGT GTTCCCTCAT CATCCCCCTA *127
CCTGAACCC TCTTGCCACT GCCTTCTACC TTGTTTGAAA CCTGAATCCT *177
AATAAAGAAT TAATAACTCC CA

UBA1 (NM_003334.4) - cDNA - 2026-04-30

