



COPA (NM_004371.4) - cDNA - 2026-05-25

GTCGCTGACG TGGAGGCGTC CGAAGGGCAG CAGGGTGTGT CGGGGCTCGG -31
ATTAAGACAT CGGAGTCGGA GACCTGAGAG **ATGTTAACCA** AATTCGAGAC 20
CAAGAGCGCG CGGGTCAAAG GGCTCAGCTT TCACCCCAA AGACCTTGA 70
TCCTGACTAG TTTACATAAT GGGGTCATCC AGTTATGGGA CTATCGGATG 120
TGCACCTCA TTGACAAGTT TGATGAACAT GATGGTCCAG **TGCGAGGCAT** 170 [p.G56S](#)
TGACTTCCAT AAGCAGCAGC CACTGTTCGT CTCTGGAGGA GATGACTATA 220
AGATTAAGGT TTGGAATTAC AAGCTTCGGC GCTGTCTTTT CACATTGCTT 270
GGGCACCTAG ATTATATTCG CACCACGTTT TTTCATCATG **AATATCCCTG** 320
GATTCTGAGT GCCTCCGATG ATCAGACCAT CCGAGTGTGG **AACTGGCAAT** 370
CTAGAACCTG TGTTTGTGTG TTAACAGGGC ACAACCATA TGTGATGTGT 420
GCTCAGTTC ACCCCACAGA AGACTTGTA GTATCAGCCA GCCTGGACCA 470
GACTGTGCGC GTTTGGGATA TTTCTGGTCT **GAGGAAAAA AACCTGTCCC** 520
CTGGTGC GGATTCGGAT GTGAGAGGAA TAACTGGGGT TGATCTATTT 570
GGAACACAG ATGCAGTGGT **GAAGCATGTA CTAGAGGGTC** ACGATCGTGG 620 [p.H199R](#) [L201P](#)
AGTAACTGG **GCTGCCTTCC** ACCCCACTAT GCCCCTTATT GTATCTGGGG 670 [p.A211V](#)
CAGATGAT**CG** TCAAGTGAAG ATCTGG**CGCA** TGAATGAATC **AAAGGCATGG** 720 [p.R227C](#) [p.K230N](#) [R233C](#) [p.R233H](#) [p.R233L](#) [p.K238E](#) [p.A239P](#) [p.W240R](#) [p.W240L](#) [p.W240S](#)
GAGGTTGATA CCTGCCGGG **CCATTACAAC** AATGTATCTT GTGCCGTCTT 770 [p.E241K](#) [p.E241A](#) [E241D](#) [p.V242G](#) [p.D243N](#) [p.D243G](#) [G247D](#)
CCACCCTCGC CAAGAGT**TGA** TCCTCAGCAA TTCTGAGGAC AAGAGTATTC 820 [H258R](#) [L263S](#)
GAGTCTGGGA TATGTCTAAG **CGGACTGGGG** TTCAG**GACTTT** CCGCAGAGAC 870 [p.R281W](#) [p.Q285H](#)
CATGATCGTT TCTGGGTCCT AGCTGCTCAC CCTAACCTTA ACCTCTTTGC 920
AGCAGGCCAT GATGGTGGTA TGATTGTGTT TAAGCTGGAA CGGGAACGGC 970
CAGCCTATGC TGTTATGGC AATATGCTAC ACTATGTCAA GGACC**GATTC** 1020 [p.R339Q](#)

TTACGACAGC TGGATTTCAA CAGCTCCAAA GATGTAGCTG TGATGCAGTT 1070
GCGGAGTGGT TCCAAGTTTC CAGTATTCAA TATGTCATAC AATCCAGCAG 1120 [R358W](#) [p.Y370S](#)
AAAATGCAGT CCTGC~~TTTTGT~~ ACAAGAGCTA GCAATCTAGA GAATAGTACC 1170
TATGACCTGT ACACCATCCC TAAAGATGCT GACTCCCAGA ATCCTGATGC 1220
GCCTGAAGGG AAACGATCCT CAGGCCTGAC AGCCGTTTGG GTCGCTCGAA 1270 [p.P408S](#)
ATCGGTTTGC TGTCCTAGAT CGGATGCATT CGTTTCTGAT CAAGAATCTG 1320
AAGAATGAGA TCACCAAAAA GGTACAGGTG CCCAACTGTG ATGAGATCTT 1370
CTATGCTGGC ACAGGCAATC TCCTGCTTCG AGATGCGGAC TCTATCACAC 1420
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GTGAAATACG TTATCTGGTC AGCAGACATG TCACATGTAG CACTACTAGC 1520
CAAACACGCC ATTGTGATCT GTAACCGCAA ACTGGATGCT TTATGTAACA 1570 [p.D519Y](#)
TTCATGAGAA CATTCTGTGC AAGAGTGGGG CCTGGGATGA GAGTGGGGTA 1620 [S532I](#)
TTTATCTATA CCACAAGCAA CCACATCAA TATGCTGTCA CCACTGGGGA 1670
CCACGGGATC ATTGGAATC TGGATTTACC CATCTATGTC ACACGGGTGA 1720
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TTTGTCAAGG ATGAGAAAAC TCGCTTTAGT CTGGCACTGG AGTGTGGAAA 1970
CATTGAGATT GCTCTGGAAG CAGCCAAAGC ACTGGATGAC AAGAAGTACT 2020
GGGAAAAGCT GGGAGAAGTG GCCCTGCTGC AGGGGAACCA CCAGATTGTG 2070 [G678E](#)
GAAATGTGCT ATCAGCGTAC CAAAACTTT GACAACTTT CCTTCCTGTA 2120 [Y694C](#) [T697I](#)
TCTTATCACT GGCAACTTAG AAAAACTTCG CAAGATGATG AAGATTGCTG 2170
AGATCAGAAA GGACATGAGT GGCCACTATC AGAATGCCCT ATACCTGGGT 2220
GATGTGTCAG AGCGTGTGCG GATCCTGAAG AACTGTGGAC AGAAGTCCCT 2270 [R745H](#)
GGCCTATCTC ACAGCTGCTA CCCATGGCTT AGATGAAGAA GCTGAGAGCC 2320
TAAAGGAGAC ATTTGACCCA GAGAAGGAGA CAATCCCAGA CATTGACCCT 2370 [T777I](#)
AATGCCAAGC TGCTCCAGCC ACCTGCACCT ATCATGCCAT TGGATACCAA 2420 [p.Asn807Thr](#)

TTGGCCTTTA TTGACTGTAT CCAAAGGATT TTTTGAAGGC ACCATTGCCA 2470
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GACTACAGTT GTGCTCATAA TTGTCCCTGC CTTTCCAGCT TAATTATTTT *245
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CATATAGTTG AAAAATCA

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