FNTA cDNA Clone – Farnesyltransferase, CAAX Box, Alpha (Human)

PRODUCT OVERVIEW

Product Name	FNTA, cDNA Clone
Full Product Name	FNTA cDNA Clone
Product Gene Name	FNTA cdna clone
Sequence	ATGGCGGCCA CCGAGGGGGT CGGGGAGGCT GCGCAAGGGG GCGAGCCCGG GCAGCCGGCG CAACCCCCGC CCCAGCCGCA CCCACCGCCG CCCCAGCAGC AGCACAAGGA AGAGATGGCG GCCGAGGCTG GGGAAGCCGT GGCGTCCCCC ATGGACGACG GGTTTGTGAG CCTGGACTCG CCCTCCTATG TCCTGTACAG GGACAGAGCA GAATGGGCTG ATATAGATCC GGTGCCGCAG AATGATGGCC CCAATCCCGT GGTCCAGATC ATTTATAGTG ACAAATTTAG AGATGTTTAT GATTACTTCC GAGCTGTCCT GCAGCGTGAT GAAAGAAGTG AACGAGCTTT TAAGCTAACC CGGGATGCTA TTGAGTTAAA TGCAGCCAAT TATACAGTGT GGCATTTCCG GAGAGTTCTT TTGAAGTCAC TTCAGAAGGA TCTACATGAG GAAATGAACT ACATCACTGC AATAATTGAG GAGCAGCCCA AAAACTATCA AGTTTGGCAT CATAGGCGAG TATTAGTGGA ATGGCTAAGA GATCCATCTC AGGAGCTTGA ATTTATTGCT GATATTCTTA ATCAGGATGC AAAGAATTAT CATGCCTGGC AGCATCGACA ATGGGTTATT CAGGAATTTA AACTTTGGGA TAATGAGCTG CAGTATGTGG ACCAACTTCT GAAAGAGGAT GTGAGAAATA ACTCTGTCTG GAACCAAAGA TACTTCGTTA TTTCTAACAC CACTGGCTAC AATGATCGTG CTGTATTGGA GAGAGAAGTC CAATACACTC TGGAAATGAT TAAACTAGTA CCACATAATG AAAGTGCATG GAACTATTTG AAAGGGATTT TGCAGGATCG TGGTCTTTCC AAATATCCTA ATCTGTTAAA TCAATTACTT GATTTACAAC CAAGTCATAG TTCCCCCTAC CTAATTGCCT TTCTTGTGGA TATCTATGAA GACATGCTAG AAAATCAGTG TGACAATAAG GAAGACATTC TTAATAAAGC ATTAGAGTTA TGTGAAATCC TAGCTAAAGA AAAGGACACT ATAAGAAAGG AATATTGGAG ATACATTGGA AGATCCCTTC AAAGCAAACA CAGCACAGAA AATGACTCAC CAACAAATGT ACAGCAATAA
Molecular Weight	36,493 Da
OMIM	134635
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FNTA cdna clone	MBS1277458 is a cDNA clone targeting FNTA.
Other Notes	Small volumes of FNTA cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FNTA. It may not necessarily be applicable to this product.

NCBI GI #	54261699
NCBI GeneID	2339
NCBI Accession #	BC084566
UniProt Secondary Accession #	Q53XJ9; Q9UDC1; A6NJW0
UniProt Related Accession #	P49354; AAB26814
NCBI Official Full Name	Homo sapiens farnesyltransferase, CAAX box, alpha, mRNA
NCBI Official Synonym Full Names	farnesyltransferase, CAAX box, alpha

NCBI Official Symbol	FNTA
NCBI Official Synonym Symbols	FPTA; PTAR2; PGGT1A
UniProt Protein Name	Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha
UniProt Synonym Protein Names	CAAX farnesyltransferase subunit alpha; FTase-alpha; Ras proteins prenyltransferase subunit alpha; Type I protein geranyl-geranyltransferase subunit alpha; GGTase-I-alpha
Protein Family	Protein farnesyltransferase/geranylgeranyltransferase
UniProt Gene Name	FNTA
UniProt Synonym Gene Names	GGTase-I-alpha
UniProt Entry Name	FNTA_HUMAN
NCBI Protein Information	protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha
NCBI Summary for FNTA	Prenyltransferases can attach either a farnesyl group or a geranylgeranyl group in thioether linkage to the cysteine residue of proteins with a C-terminal CAAX box. CAAX geranylgeranyltransferase and CAAX farnesyltransferase are heterodimers that share the same alpha subunit but have different beta subunits. This gene encodes the alpha subunit of these transferases. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 11 and 13. [provided by RefSeq, May 2010]
UniProt Comments for FNTA	FNTA: Catalyzes the transfer of a farnesyl or geranyl-geranyl moiety from farnesyl or geranyl-geranyl pyrophosphate to a cysteine at the fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic-aliphatic-X. The alpha subunit is thought to participate in a stable complex with the substrate. The beta subunit binds the peptide substrate. Through RAC1 prenylation and activation may positively regulate neuromuscular junction development downstream of MUSK. Belongs to the protein prenyltransferase subunit alpha family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.5.1.58; EC 2.5.1.59; Transferase Chromosomal Location of Human Ortholog: 8p11 Cellular Component: cytoplasm; cytosol; microtubule associated complex Molecular Function: alpha-tubulin binding; CAAX-protein geranylgeranyltransferase activity; microtubule binding; protein binding; protein farnesyltransferase activity; protein geranylgeranyltransferase activity Biological Process: cell structure disassembly during apoptosis; protein farnesylation; protein geranylgeranylation; regulation of rhodopsin mediated signaling; transforming growth factor beta receptor signaling pathway
Research Articles on FNTA	**1.** our findings identify Geranylgeranyl transferase 1 as a key regulator of human airway smooth muscle cell viability
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