

Product datasheet for SC122612

CTRB1 (NM_001906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTRB1 (NM_001906) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTRB1
Synonyms:	CTRB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001906 edited GGGACCGGCAGACAGGCGTCTACACCCCTGCCAGCGGCACCATGGCTTTCTCTGGCTC CTCTCTGCTGGGCCCTCTGGGTACCACCTTCGGCTGCGGGTCCCCGCCATCCACCT GTGCTCAGCGGCCTGTCCAGGATCGTGAATGGGAGGACGCCGTCCCCGGCTCCTGGCCC TGGCAGGTGTCCCTGCAGGACAAAACCGCTTCCACTTCTGCGGGGCTCCCTCATCAGC GAGGACTGGGTGGTCACCGCTGCCACTGCGGGT CAGGACCTCCGACGTGGTCGTGGCT GGGGAGTTTGACCAGGGCTCTGACGAGGAGAACATCCAGGTCCTGAAGATCGCCAAGGTC TTCAAGAACCCCAAGTTCAGCATTCTGACCGTGAACAATGACATCACCTGCTGAAGCTG GCCACACCTGCCCGTCTCCAGACAGTGTCCGCCGTGCCTGCCAGCGCCGACGAC GACTTCCCCGCGGGGACACTGTGTGCCACCACAGGCTGGGGCAAGACCAAGTACAACGCC AACAAAGACCCCTGACAAGCTGCAGCAGGCAGCCCTGCCCTCCTGTCCAATGCCGAATGC AAGAAGTCTGGGCAGGAGGATCACCGACGTGATGATCTGTGCCGGGGCCAGTGGCGTC TCCTCCTGCATGGGCGACTCTGGCGTCCCTGGTCTGCCAAAAGGATGGAGCCTGGACC CTGGTGGGCATTGTGCTCTGGGCAGCGACACCTGCTCCACCTCCAGCCCTGGCGTGAC GCCCCGTGCACCAAGCTCATACCTTGGGTGCAGAAGATCCTGGCTGCCAACTGAGCCCCG GGCTCCCTCCGACCTGCTCCCCACAGAGCCTCAGTAAACCCATGAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001906 unedited TTCANCATTTGTAATACGACTTACTATAGGGCGGCACGCGAATTCGCCATTACGGCCGGG GGGGACCGGCAGACAGGCGTCTACACCCTGCCAGCGGCACCATGGCTTTCCTCTGGCT CCTCTCCTGCTGGGCCCTCTGGGTACCACCTTCGGCTGCGGGGTCCCCGCCATCCACCC TGTGCTCAGCGCCTGTCCAGGATCGTGAATGGGAGGACGCCGTCGCCGGCTCCTGGCC CTGGCAGGTGTCCCTGCAGGACAAAACCGGCTTCCACTTCTGCGGGGGCTCCCTCATCAG CGAGGACTGGGTGGTCAACGCTGCCACTGCGGGGTGAGGACCTCCGACGTGGTCTGGC TGGGGAGTTTGACAGGGCTCTGACGAGGAGAACATCCAGGTCCTGAAGATCGCCAAGGT CTTCAAGAACCCCAAGTTCAGCATTCTGACCGTGAACAATGACATCACCTGCTGAAGCT GGCCACACCTGCCCGTCTCTCCAGACAGTGTCCGCCGTGTGCCTGCCAGCGCCGACGA CGACTTCCCCCGGAGACACTGTGTGCCACCACAGGCTGGGGCAAGACCAAGTACAACGC CAACAAGACCCCTGACAAGCTGCAGCAAGCAGCCCTGCCCTCTGTCCAATGCCGAATG CAAGAAGTCTGGGGCANNGAGATCACCGACGTGATGATCTGTGCCGAGGCCAGTGGCGT CTCCTCTGCATGAGCGACTCTGGCAGTCCCCTGGTCTGCCAAAAGATGGAGCCTGNACC CTGGTGGGCATTGTGCTCTGGGGCAGCGACACCTGCTTACCTNCAGCCCTGACGTGTAC GCCCGTGTCAACGACTCATACCTTGGGTGACAGAAGATACTGGCTGGCACTGAGCCCGAGC TNCCTCGGACCTGCTCCAACGAGCCTAATAACCCC
Restriction Sites:	Please inquire
ACCN:	NM_001906
Insert Size:	915 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001906.2 , NP_001897.2
RefSeq Size:	872 bp
RefSeq ORF:	792 bp
Locus ID:	1504
UniProt ID:	P17538
Cytogenetics:	16q23.1
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane

Gene Summary:

This gene encodes a member of the serine protease family of enzymes and forms a principal precursor of the pancreatic proteolytic enzymes. The encoded preproprotein is synthesized in the acinar cells of the pancreas and secreted into the small intestine where it undergoes proteolytic activation to generate a functional enzyme. This CTRB1 gene is located head-to-head with the related CTRB2 gene. Some human populations have an alternate haplotype which inverts a 16.6 Kb region containing portions of intron 1, exon 1, and the upstream sequence of the CTRB1 and CTRB2 genes. In this inversion haplotype exon 1 and flanking sequence is swapped in CTRB1 and CTRB2. This inversion is associated with differential gene expression and increased risk for chronic pancreatitis. The GRCh38 assembly represents the minor allele for SNP rs8048956 of the CTRB1 gene. SNP rs8048956 in intron 1 of the CTRB2 gene is diagnostic for this inversion. This CTRB1 gene encodes distinct isoforms, some or all of which may undergo similar processing to generate the mature protein. [provided by RefSeq, Jan 2021]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).