

Product datasheet for **SC319324**

Cathepsin F (CTSF) (NM_003793) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin F (CTSF) (NM_003793) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathepsin F
Synonyms:	CATSF; CLN13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003793.3
 CTCAGGCCCGCTGGCCGCGGGCTCGGTACCCGGTGGGTGGAGCGTCTGTTGGGTC
 CGGGCCGCGCGCTTCGCCCTCGCCATGGCGCCCTGGTGCAGCTCCTGTCGCTGCTGGG
 CTGCTCCCGGGCGCAGTGGCCGCCCCGCCAGCCCCGAGCCGCCAGCTTTCAGGCCTGG
 GGGCCGCGTCCCGGAGCTGCTGGCGCCACCCGCTTCGCGTGGAGATGTTCAACCGC
 GGCCGGGTGCGGGGACGCGGGCCGTGCTGGGCTTGTGCGCGGCCGCGTCCGCCGGCG
 GGCCAGGGTCTGTACTCCCTGGAGGCCACCCTGGAGGAGCCACCCTGCAACGACCCC
 ATGGTGTGCCGGTCCCGTGTCCAAGAAAACCCCTGCTCTGCAGCTTCCAAGTCCCTGGAT
 GAGCTCGGAAGACAGTCTGCTGCGGAAGGACTGTGGCCAGTGGACACCAAGTTCCA
 GGTGCTGGGGAGCCCAAGTCAGCCTTCACTCAGGGCTCAGCCATGATTTCTTCTGTGCC
 CAAAACCATCCAGACAACAGAAACGAGACTTTCAGCTCAGTCATTTCCCTGTTGAATGAG
 GATCCCTGTCCAGGACTTGCCTGTGAAGATGGCTTCAATCTTCAAGAAGTTTGTCTATT
 ACCTATAACCGGACATATGAGTCAAAGGAAGAAGCCCGTGGCGCCTGTCCGTCTTTGTC
 AATAACATGGTGCAGCACAGAAGATCCAGGCCCTGGACCGTGGCACAGCTCAGTATGGA
 GTCACCAAGTTCAGTATCTCACAGAGGAGGAGTCCGCACTATCTACCTGAATACTCTC
 CTGAGAAAAGAGCTGGCAACAAGATGAAGCAAGCCAAGTCTGTGGGTGACCTCGCCCCA
 CCTGAATGGGACTGGAGGAGTAAGGGGGCTGTCAAAAAGTCAAAGACCAGGGCATGTGT
 GGCTCCTGCTGGGCTTCTCAGTCACAGGCAATGTGGAGGGCCAGTGGTTTCTCAACCAG
 GGGACCTGCTCTCCCTCTCTGAACAGGAGCTCTTGGACTGTGACAAGATGGACAAGGCC
 TGCATGGGCGGCTTCCCTCCAATGCCTACTCGGCCATAAAGAATTTGGGAGGGCTGGAG
 ACAGAGGATGACTACAGTACCAGGGTCACATGCAGTCTGCACTTCTCAGCAGAGAAG
 GCCAAGTCTACATCAATGACTCCGTGGAGCTGAGCCAGAACGAGCAGAAGCTGGCAGCC
 TGGTGGCCAAGAGAGGCCCAATCTCCGTGGCCATCAATGCCTTTGGCATGCAGTTTTAC
 CGCCACGGGATCTCCCGCCCTCTCCGGCCCTCTGCAGCCCTTGGCTCATTGACCATGCG
 GTGTTGCTTGTGGGCTACGGCAACCGCTCTGACGTTCCCTTTTGGCCATCAAGAACAGC
 TGGGCACTGACTGGGTGAGAAGGGTACTACTACTTGCATCGCGGGTCCGGGGCTGT
 GGCGTGAACACCATGGCCAGCTCGGCGGTGGTGGACTGAAGAGGGGCCCCAGCTCGGGA
 CCTGGTGTGATCAGAGTGGTGTGCCCCAGCCTGACATGTGTCCAGGCCCTCCCGG
 GAGGTACAGCTGGCAGAGGAAAGGCACTGGGTACCTCAGGGTGAGCAGAGGGCACTGGG
 CTGGGGCACAGCCCTGCTTCCCTGCACCCCATCCACCCTGAAGTTCTGCACCTGCAC
 CTTTGTGAATTGTGGTAGCTTAGGAGGATGTCAGGGTGAAGGGTGGTATCTTGGCAGTT
 GAAGCTGGGGCAAGAAGTCTGGGCTTGGGTAATGAGCAGGAAGAAAATTTCTGATCTTA
 AGCCAGCTCTGTTCTGCCCCGCTTCCCTCTGTTTGATACTATAAATTTCTGGTTCCC
 TTGGATTTAGGGATAGTGTCCCTCCATGTCCAGGAACTTGTAAACCACCTTTTCTAA
 CAGCAATAAAGAGGTGCTCTGTCCCGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003793

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_003793.3](#), [NP_003784.2](#)

RefSeq Size: 2032 bp

RefSeq ORF: 1455 bp

Locus ID: 8722

UniProt ID: [Q9UBX1](#)

Cytogenetics: 11q13.2

Domains: Pept_C1

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome

Gene Summary: Cathepsins are papain family cysteine proteinases that represent a major component of the lysosomal proteolytic system. Cathepsins generally contain a signal sequence, followed by a propeptide and then a catalytically active mature region. The very long (251 amino acid residues) proregion of the cathepsin F precursor contains a C-terminal domain similar to the pro-segment of cathepsin L-like enzymes, a 50-residue flexible linker peptide, and an N-terminal domain predicted to adopt a cystatin-like fold. The cathepsin F proregion is unique within the papain family cysteine proteases in that it contains this additional N-terminal segment predicted to share structural similarities with cysteine protease inhibitors of the cystatin superfamily. This cystatin-like domain contains some of the elements known to be important for inhibitory activity. CTSF encodes a predicted protein of 484 amino acids which contains a 19 residue signal peptide. Cathepsin F contains five potential N-glycosylation sites, and it may be targeted to the endosomal/lysosomal compartment via the mannose 6-phosphate receptor pathway. The cathepsin F gene is ubiquitously expressed, and it maps to chromosome 11q13, close to the gene encoding cathepsin W. [provided by RefSeq, Jul 2008]