

Product datasheet for **SC321091**

Cathepsin L (CTSL) (NM_001912) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin L (CTSL) (NM_001912) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathepsin L
Synonyms:	CATL; CTSL1; MEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001912.3
GGGGGGCCGGACAGGGACTGGAAGAGAGGACGCGGTCGAGTAGGTGTGCCACCAGCCCTGG
CAACGAGAGCGTCTACCCCGAACTCTGCTGGCCTTGAGGTGGGAAGCCGGGAGGGCAG
TTGAGGACCCCGGAGGCGCGTACTGTTGAGCGGGCAGGCCAGCCTCCGAGCCGGGT
GGACACAGGTTTTAAACATGAATCCTACACTCATCCTTGCTGCCTTTTGCCTGGGAATT
GCCTCAGTACTCTAACATTTGATCACAGTTTAGAGGCACAGTGGACCAAGTGAAGGCG
ATGCACAACAGATTATACGGCATGAATGAAGAAGGATGGAGGAGAGCAGTGTGGGAGAAG
AACGTGAAGATGATTGAACTGCACAATCAGGAATACAGGGAAGGGAAACAGCTTCACA
ATGGCCATGAACGCCCTTTGGAGACATGACCAGTGAAGAATTCAGGCAGGTGATGAATGGC
TTTTCAAACCGTAAGCCAGGAAGGGAAAGTGTCCAGGAACCTCTGTTTTATGAGGCC
CCCAGATCTGTGGATTGGAGAGAGAAAGGCTACGTGACTCCTGTGAAGAATCAGGGTCAG
TGTGGTCTTGTGGGCTTTTAGTGCTACTGGTCTCTTGAAGGACAGATGTTCCGGAAA
ACTGGGAGGCTTATCTCACTGAGTGAGCAGAATCTGGTAGACTGCTCTGGGCCTCAAGGC
AATGAAGGCTGCAATGGTGGCCTAATGGATTATGCTTTCCAGTATGTTCCAGGATAATGGA
GGCCTGGACTCTGAGGAATCCTATCCATATGAGGCAACAGAAGAATCCTGTAAGTACAAT
CCCAAGTATTCTGTTGCTAATGACACCGGCTTTGTGGACATCCCTAAGCAGGAGAAGGCC
CTGATGAAGGCAGTTGCAACTGTGGGCCCATTCTGTTGCTATTGATGCAGGTCATGAG
TCCTTCTGTTCTATAAAGAAGGCATTTATTTGAGCCAGACTGTAGCAGTGAAGACATG
GATCATGGTGTGCTGGTGGTTGGCTACGGATTTGAAAGCACAGAATCAGATAACAATAAA
TATTGGCTGGTGAAGAACAGCTGGGGTGAAGAATGGGGCATGGGTGGCTACGTAAGATG
GCCAAAGACCGGAGAAACCATTGTGGAATTGCCTCAGCAGCCAGCTACCCCACTGTGTGA
GCTGGTGGACGGTATGAGGAAGGACTTGACTGGGGATGGCGCATGCATGGGAGGAATTC
ATCTTCAGTCTACCAGCCCCGCTGTGTCGGATACACACTCGAATCATTGAAGATCCGAG
TGTGATTTGAATTCTGTGATATTTTCACTGGTAAATGTTACCTCTATTTTAATTACTG
CTATAAATAGGTTTATATTATTGATTCACTTACTGACTTTGCATTTTCGTTTTTAAAGG
ATGTATAAATTTTACCTGTTTAAATAAAATTTAATTTCAAAAAAAGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_001912
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:	<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_001912.3 , NP_001903.1
RefSeq Size:	1731 bp
RefSeq ORF:	1002 bp
Locus ID:	1514
UniProt ID:	P07711
Cytogenetics:	9q21.33
Domains:	Pept_C1
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Antigen processing and presentation, Lysosome
Gene Summary:	<p>The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Additionally, this protein cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1-4 encode the same isoform (1).</p>