

Product datasheet for **SC110862**

Cystatin C (CST3) (NM_000099) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cystatin C (CST3) (NM_000099) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cystatin C
Synonyms:	ARMD11; HEL-S-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110862 sequence for NM_000099 edited (data generated by NextGen Sequencing)

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ATGGCCGGGCCCTGCGGCCCCGCTGCTCCTGCTGGCCATCCTGGCCGTGGCCCTGGCC  
GTGAGCCCCGCGCCGGCTCCAGTCCCGCAAGCCGCGCCTGGTGGGAGGCCCATG  
GACGCCAGCGTGAGGAGGAGGGTGTGCGGCGTCACTGGACTTTGCCGTCGGCGAGTAC  
AACAAAGCCAGCAACGACATGTACCACAGCCGCGCTGCAGGTGGTGCAGCCCGCAAG  
CAGATCGTAGCTGGGGTGAACACTTCTTGACGTGGAGCTGGGCCGAACCACGTGTACC  
AAGACCCAGCCCAACTTGGACAACCTCCATGACCAGCCACATCTGAAAAGGAAA  
GCATTCTGCTTTCCAGATCTACGCTGTGCCTTGGCAGGGCACAATGACCTTGTGAAA  
TCCACCTGTCAGGACGCCTAG
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Clone variation with respect to NM_000099.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000099 unedited</p> <pre>GTATACGACTCCTATAGGCGGCCGACATTTCGCACGAGGCTCGGTATCGCAGCGGGTCC TCTCTATCTAGCTCCAGCCTCTCGCCTGCGCCCACTCCCCGCGTCCCAGCTAGCCG ACCATGGCCGGGCCCCCTGCGCGCCCCGCTGCTCCTGCTGGCCATCCTGGCCGTGGCCCTG GCCGTGAGCCCCGCGCCGGCTCCAGTCCCGCAAGCCGCGCCTGGTGGGAGCCCC ATGGACGCCAGCGTGGAGGAGGAGGTGTGCGCGTGCCTGGACTTTGCCGTGCGCGAG TACAACAAGCCAGCAACGACATGTACCACAGCCGCGCTGCAGTGGTGGCGCCCGC AAGCAGATCGTAGCTGGGTGAACTACTTCTTGGACGTGGAGCTGGGCCAACCAGTGT ACCAAGACCCAGCCAACTTGGACAACCTGCCCTTCCATGACCAGCCACATCTGAAAAGG AAAGCATTCTGCTCTTTCCAGATCTACGCTGTGCCTTGGCAGGGCACAATGACCTGTGC AAATCCACCTGTGAGGACGCTAGGGTCTGTACCGGGTGGCCTGTGCCTATCCCTTA TCNACACCTCCACCCCTGTATTCCACCCCTGGACTGGTGGCCCCCGCCTGGGG AAGTTCTCCCATTTGCTCCTGCACCANGAGACAGACAGAGAAGGCAGCAGCGGNCCTT TGNTGCTCAGCAGGGGCTGCCCCCTCCTCCTTTCTTGTCTCATAGCCCCGGG TGCGGTGCATACCCCCACCTCCTGCATAAAATAGTAGCATCGGCAAAAAAAAAAAAA AACTACTCTAAATTGCGCCCGGTATAAAGTCTTCTGAAAAACCCGTTGGGATCC TGGGGACCTCCCAAGCCTTTTGGCCTGGGAAGGCCATTCCAGGCCCCACCTGGCTAA AAAAAAGCAATTTGCGACAGGGCTTATATGGGGGGGGGGGGGGGGGGGNGACACAAC CACACA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000099 unedited</p> <pre>AGCTATGGACCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCGATGC TACTATTTTATTGACAGGAGTGGGGTGTATGCACCGCACACCGGGCTATGAGAAGCAA GAAGGAAGGAGGGAGGGCAGAGCCCTTGTGAGCAACAAGGCCGCTGCTGCCTTCTC TGCTGTCTCCTGGTGCAGGCACATGGGAGACCTTCCCAAGGCAGGGGCCACAGTCC AGGGGTGGGAATACAGGGGGTGGGAGGTGTGCATAAGAGGTGATAGGCACAGGCCAGCC GGTACAGACCCCTAGGCGTCTGACAGGTGGATTTGACAAGGTGATTGTGCCCTGCCAA GGCACAGCGTAGACTGGAAGAGCAGAATGCTTTCCTTTTTCAGATGTGGCTGGTATGG AAGGGGAGTTGTCAGTTGGGCTGGGCTTGGTACACGTGGTTCGGCCAGCTCCACG TCCAAGAAGTAGTTCACCCAGCTACGATCTGCTTGGGGCGCGCACCTGCAGCGCG CGCTGTGGTACATGTCGTTGCTGGCTTTGTTGTACTCGCCGACGGCAAAGTCCAGTGC CGCCGCACACCTCCTCCTCCACGCTGGGTCCATGGGGCTCCACCAGGCGCGCGGC TTGCCGGGACTGGAGCCGCGCGGNGCTCACGNCCAGGCCACGGCCAGGATGGCCAG CAGAGCCAGCGGGCGCGCAGGGGCCCGCCATGGTGGCTAGGACCGCGACCCNGAG TGGGGCCCAAGCGAAAGCCTGAANCTANATANAGAGGACCCGCTGCGATACGGAGCCTCG TGCCGAATTCGGNCCGCCCTAAGTGAGTCGTATACAAAATCTGACGNTCACTAACGAGC TCTGCTATATAGACCTCCACGTCACGCCTAN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000099
Insert Size:	820 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:

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_000099.2](#), [NP_000090.1](#)

RefSeq Size: 818 bp

RefSeq ORF: 441 bp

Locus ID: 1471

UniProt ID: [P01034](#)

Cytogenetics: 20p11.21

Domains: CY

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Gene Summary: The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes the most abundant extracellular inhibitor of cysteine proteases, which is found in high concentrations in biological fluids and is expressed in virtually all organs of the body. A mutation in this gene has been associated with amyloid angiopathy. Expression of this protein in vascular wall smooth muscle cells is severely reduced in both atherosclerotic and aneurysmal aortic lesions, establishing its role in vascular disease. In addition, this protein has been shown to have an antimicrobial function, inhibiting the replication of herpes simplex virus. Alternative splicing results in multiple transcript variants encoding a single protein. [provided by RefSeq, Nov 2014]

Transcript Variant: This variant (1) differs in the 3' UTR compared to variant 2. Variants 1 and 2 encode the same protein.