

Product datasheet for **SC319838**

Cystatin SA (CST2) (NM_001322) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cystatin SA (CST2) (NM_001322) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cystatin SA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_001322.2</p> <pre>GGGGGATCCCTGCCTCAGGCTCTCAACCTCCTCCTGCAGCTCCAGCTCTGTGCTCTGC CTGCGAGGAGACCATGGCCTGGCCCTGTGCACCCTGCTGCTCCTGCTGGCCACCCAGGC TGTGGCCCTGGCCTGGAGCCCCAGGAGGAGACAGGATAATCGAGGGTGGCATCTATGA TGCAGACCTCAATGATGAGCGGGTACAGCGTGCCCTTCACTTTGTCATCAGCGAGTATAA CAAGGCCACTGAAGATGAGTACTACAGACGCCTGCTGCGGGTGCTACGAGCCAGGGAGCA GATCGTGGGCGGGTGAATTACTTCTTCGACATAGAGGTGGGCCGAACCATATGTACAA GTCCCAGCCCACTTGGACACCTGTGCCTTCCATGAACAGCCAGAAGTGCAGAAGAAACA GTTGTGCTCTTTCCAGATCTACGAAGTTCCTGGGAGGACAGAATGTCCCTGGTGAATTC CAGGTGTCAAGAAGCCTAGGGATCTGTGCCAGGGAGTCACTGACCACCTCCTACTCCC ACCCCTTGTAGTGTCCCACCCCTGGACTGGTGGCCCCACCCCTGTGGGAGGTCTCCCA TGCACCTGCAGCAGGAGAAGACAGAGAAGGCTGCAGGAGGCCTTTGTTGCTCAGCAGGGG ACTCTGCCTCCCTCCTTCTTTGCTTCTCATAGCCCTGGTACATGGTACACACACCCC CACCTCTGCAATTAACAGTAGCATCATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001322
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.



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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:	<u>NM_001322.2</u> , <u>NP_001313.1</u>
RefSeq Size:	694 bp
RefSeq ORF:	426 bp
Locus ID:	1470
UniProt ID:	<u>P09228</u>
Cytogenetics:	20p11.21
Domains:	CY
Protein Families:	Secreted Protein
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 a secreted thiol protease inhibitor found at high levels in saliva, tears and seminal plasma. [provided by RefSeq, Jul 2008]