

## Product datasheet for SC116847

### Cystatin A (CSTA) (NM\_005213) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cystatin A (CSTA) (NM_005213) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cystatin A
Synonyms:	AREI; PSS4; STF1; STFA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005213 edited ATGATACCTGGAGGCTTATCTGAGGCCAAACCCGCCACTCCAGAAATCCAGGAGATTGTT GATAAGGTTAAACCACAGCTTGAAGAAAAACAATGAGACTTATGGAAAATTGGAAGCT GTGCAGTATAAACTCAAGTTGTTGCTGGAACAAATTACTACATTAAGGTACGAGCAGGT GATAATAAATATATGCACTTGAAGTATTCAAAGTCTTCCCGGACAAAATGAGGACTTG GTACTTACTGGATACCAGTTGACAAAAACAAGGATGACGAGCTGACGGGCTTTTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005213 unedited GCACGTCAAATTTGTATACGACTCATATAGGGCGCCGCGAATTCGCACGAGCAAAGAA GCAATCAGCCAAAATGATACCTGGAGGCTTATCTGAGGCCAAACCCGCCACTCCAGAAAT CCAGGAGATTGTTGATAAGGTTAAACCACAGCTTGAAGAAAAACAATGAGACTTATGG AAAATTGGAAGCTGTGCAGTATAAACTCAAGTTGTTGCTGGAACAAATTACTACATTA GGTACGAGCAGGTGATAATAAATATATGCACTTGAAGTATTCAAAGTCTTCCCGGACA AAATGAGGACTTGGTACTTACTGGATACCAGTTGACAAAAACAAGGATGACGAGCTGAC GGGCTTTTAGCAGCATGTACCCAAAGTGTCTGATTCTTCAACTGGCTACTGAGTCATG ATCCTTGCTGATAAATAAACCATCAATAAAGAAGCATTCTTTCCAAAGAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAACTAACTCTAAAATTGCGGCCGCGACATAAAATGTT ACCTGAACANATCCCGGTGTCCTCCTTGTGACCCGGCCCGAGTGTATCTTGTCCCTG AAAATCCGGTGGGGTCCAGGAGCCTTTCCAGGACCTTTAAGTGGCCTGAAATTGG CAAAGTGGTGCCTCCCAATATTTTTATAAAAAATATGGGGGCGGTATATTGCCCGCC AAAGTCTTTATAAAATGTGGGCCTGAAGGGGGCTATTTTACCAAGGGTGCAATTTG GGAACACATCCTTGGGTGCTGGGGGTCAATTTGAAACCAAATGGGAATTTGGGGCC AAATCTTGCCACTGAAGGGACCCACGCGGGTTAAGCAAACCTTCTTGATTAAGTT
Restriction Sites:	NotI-NotI
ACCN:	NM_005213



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<b>Insert Size:</b>	500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005213.3</a> , <a href="#">NP_005204.1</a>
<b>RefSeq Size:</b>	838 bp
<b>RefSeq ORF:</b>	297 bp
<b>Locus ID:</b>	1475
<b>UniProt ID:</b>	<a href="#">P01040</a>
<b>Cytogenetics:</b>	3q21.1
<b>Domains:</b>	CY
<b>Gene Summary:</b>	<p>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 kininogens. This gene encodes a stefin that functions as a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. The protein is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Stefins have been proposed as prognostic and diagnostic tools for cancer. [provided by RefSeq, Jul 2008]</p>