

Product datasheet for SC118971

Cystatin S (CST4) (NM_001899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cystatin S (CST4) (NM_001899) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cystatin S
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118971 sequence for NM_001899 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGCCTCTGTGTACCCTGCTACTCCTGATGGCTACCCTGGCTGGGGCTCTGGCC
TCGAGCTCCAAGGAGGAGAATAGGATAATCCCRGGTGGCATCTATRAYGCAGACCTCAAT
GATGAGTGGGTACAGCGTGCCCTTCACTTCGCCATCAGCGAGTAYAAACAAGGCCACCRAA
GATGASTACTACAGACGCCCGCTGCAGGTGCTGCGAGCCAGGGAGCAGACCTTTGGGGGG
GTGAATTACTTCTTCGACGTAGAGGTGGGCCGACCATATGTACCAAGTCCCAGCCCAAC
TTGGACACCTGTGCCTTCCATGAACAGCCAGAAGTGCAGAAGAAACAGTTGTGCTCTTTC
GAGATCTACGAAGTTCCTGGGAGRACAGAAGTCCCTGGTGAATTCCAGGTGTCAAGAA
GCCTAG
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Clone variation with respect to NM_001899.2
93 a=>r;106 g=>r;108 t=>y;165 c=>y;178 g=>r;186 g=>s;385 g=>r;392 t=>k

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001899 unedited
GCACGAGGCAGGCTCTCACCCCTCTCCTGCAGCTCCAGCTTTGTGCTCTGCCTCTGAG
GAGACCATGGCCCAGCATCTGAGTACCCTGCTCCTGCTGGCCACCCTAGCTGTGGCC
CTGGCCTGGAGCCCCAAGGAGGAGGATAGGATAATCCCGGGTGGCATCTATAACGCAGAC
CTCAATGATGAGTGGGTACAGCGTGCCCTTCACTTCGCCATCAGCGAGTATAACAAGGCC
ACCAAAGATGACTACTACAGACGTCCGCTGCGGGTACTAAGAGCCAGGCAACAGACCGTT
GGGGGGGTGAATTACTTCTTCGACGTAGAGGTGGGCCGAACCATATGTACCAAGTCCCAG
CCCAACTTGACACCTGTGCCTTCCATGAACAGCCAGAAGTGCAGAAGAAACAGTTGTGC
TCTTTCGAGATCTACGAAGTTCCTGGGAGAACAGAAGTCCCTGGTGAATCCAGGTGT
CAAGAATCC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001899 unedited TCTGTTTAAATGCAGGAGTGGGGTGTGTGTACCATGTACCAGGCTATTAGAACAAATAAGA AGGAGGAGGGCAGAGCGCCCTGCTGAGCAACAAAGACTCCTGCAGCCTTCTGTCTGTC TCTTGGCGCATGCACATGGGGAGGCCTCCCGCAGGGTGGGGGCCACCATCCACGGGTGG GACCACTACATGGGGCGGGAGTGGGTGGCGGCTGGTGCGAATGGCCTGGCACACATCCCT ACGATTCTCGTCACCTGTATTTACCATTGACCTTCTCCTCTCCCAGCGAACCTCCCCCA CCTGCAAGAGCACCACCTGTATCCTCCGCACCGCCGGCTGTTACCTAATGCATCTCCCTC CACCTTGCCCTGTGCCTTTTACCTCTGGACCGTCTTATTTCCCTCCCCCTCCCAATTAC CCCCCCCCCCCCCCTTCCCCTTTTCCCCCCCCCTTTTCTCCCCCATCTTTTTTATC CCCCTCCCTTTTCCCCTTGTTTTCCCCTTCCCTCCCTCTTTCATCGTCGCTCCCTCC TCTTCTCCCTATCTCCTCCCTTCCCTCTCTCCCCCTCCCTTTTTTTTTCCCCCTCCC TCCCCTTTCCCCTCCCCCACCTTCTTTTTTTTTCCCTTCTCCATCCCCTCTATCCC TTCCCTTTTTCTTTTTCCCCCCTTTCTTTTCCCTCCCTTCTCTCTCCCCCTCT CCCCACCTTCTCCCTTTCTTTTCCCTCTGTGCCTTTTCTTCTGATCACCTTCTCT CCTACCCTTTTCTCCCCCTTCTTCTCCACTCTTCTCCCCCTTATCTCCTCATTCCC CCCTCCCTCCCCCCCCAATTCCTACTCTCTCTCCCCACTTCGCCTTCCCTATTCCC CTTCTTCCCCCTCCCCCCCCCCTCCCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_001899
Insert Size:	910 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:	<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_001899.2</u> , <u>NP_001890.1</u>
RefSeq Size:	736 bp
RefSeq ORF:	426 bp
Locus ID:	1472
UniProt ID:	<u>P01036</u>
Cytogenetics:	20p11.21
Domains:	CY

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. 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 type 2 salivary cysteine peptidase inhibitor. The protein is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function. [provided by RefSeq, Jul 2008]