

Product datasheet for **RG209350**

Cystatin SA (CST2) (NM_001322) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cystatin SA (CST2) (NM_001322) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Cystatin SA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209350 representing NM_001322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGGCCCTGTGCACCCTGCTGCTCCTGCTGGCCACCCAGGCTGTGGCCCTGGCCTGGAGCCCC
 AGGAGGAGGACAGGATAATCGAGGGTGGCATCTATGATGCAGACCTCAATGATGAGCGGGTACAGCGTGC
 CCTTCACTTTGTCATCAGCGAGTATAACAAGGCCACTGAAGATGAGTACTACAGACGCCTGCTGCGGGT
 CTACGAGCCAGGGAGCAGATCGTGGCGGGTGAATTACTTCTTCGACATAGAGGTGGCCGAACCATAT
 GTACCAAGTCCCAGCCAACTTGGACACCTGTGCCTTCATGAACAGCCAGAAGTGCAGAAGAAACAGTT
 GTGCTCTTTCCAGATCTACGAAGTTCCTGGGAGGACAGAATGTCCTGGTGAATTCCAGGTGTCAAGAA
 GCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209350 representing NM_001322
 Red=Cloning site Green=Tags(s)

MAWPLCTLLLLLATQAVALLAWSPQEEDRIIEGGIYDADLNDERVQRALHFVISEYNKATEDEYYRLLRV
 LRAREQIVGGVNYFFDIEVGRITCKSQPNLDTCAFHEQPELQKKQLCSFQIYEVWPEDRMSLVNSRCQE
 A

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001322

ORF Size: 423 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001322.3](#)

RefSeq Size: 694 bp

RefSeq ORF: 426 bp

Locus ID: 1470

UniProt ID: [P09228](#)

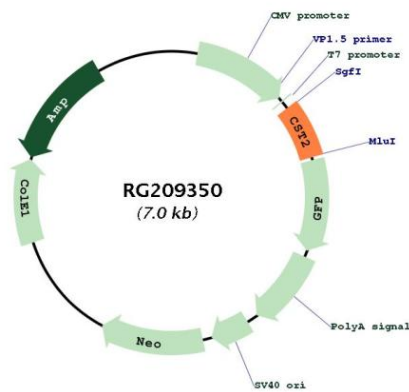
Cytogenetics: 20p11.21

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]

Product images:



Circular map for RG209350