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Product datasheet for RC202034

Cystatin F (CST7) (NM_003650) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cystatin F (CST7) (NM_003650) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cystatin F
Synonyms:	CMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202034 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCCTGAGAAGGCACTGCACGGCCACCCCCAACTGCCCCGCACTGTCCCTACCCGGGCAGCCATGC
GAGCGGCTGGAACTCTGCTGGCCTTCTGCTGCCTGGTCTTGAGCACCACTGGGGGCCCTTCCCCAGATAC
TTGTTCCCAGGACCTTAACTCACGTGTGAAGCCAGGATTTCCTAAAACAATAAAGACCAATGACCCAGGA
GTCCTCCAAGCAGCCAGATACAGTGTTGAAAAGTTCAACAACTGCACGAACGACATGTTCTTGTTCAAGG
AGTCCCGCATCACAAGGGCCCTAGTTCAGATAGTGAAAGGCCTGAAATATATGCTCGAGGTGGAAATTGG
CAGAACTACCTGCAAGAAAAACCAGCACCTGCGTCTGGATGACTGTGACTTCCAAACCAACCACACCTTG
AAGCAGACTCTGAGCTGCTACTCTGAAGTCTGGGTCGTGCCCTGGCTCCAGCACTTCGAGGTGCCTGTTC
TCCGTTGTCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202034 protein sequence
Red=Cloning site Green=Tags(s)

MLPEKALHGHPQLPRTVPTRAAMRAAGTLLAFCCLVLSTTGGPSPDTCSQDLNSRVKPGFPKTIKTNDPG
VLQAARYSVEKFNNCTNDMFLFKESRITRALVQIVKGLKYMLEVEIGRTTCKKNQHLRLDDCDFQTNHTL
KQTLSCYSEVWVVPWLQHFEVPVLRCH

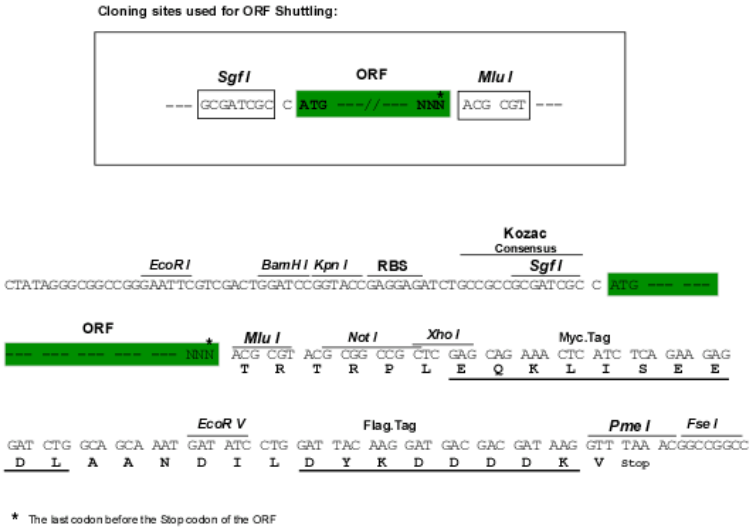
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_g01.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003650

ORF Size: 501 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_003650.2, NP_003641.2

RefSeq Size: 940 bp

RefSeq ORF: 438 bp

Locus ID: 8530

UniProt ID: O76096

Cytogenetics: 20p11.21

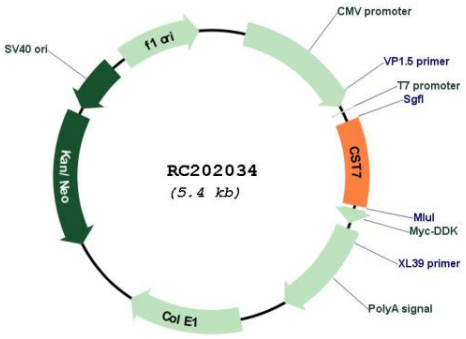
Domains: CY

Protein Families: Secreted Protein

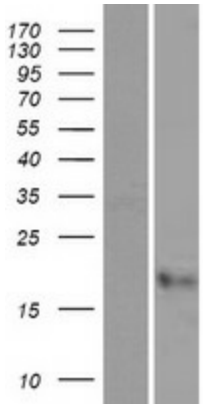
MW: 18.9 kDa

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. This gene encodes a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system. Expression of the protein has been observed in various human cancer cell lines established from malignant tumors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202034



Western blot validation of overexpression lysate (Cat# [LY418523]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202034 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).