

Product datasheet for **RC207689**

CST6 (NM_001323) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CST6 (NM_001323) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CST6
Synonyms: ECTD15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207689 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTTCGAACCTCCCGCTGGCGCTGGCCCTGGCCCTGGTTCGATTCTGCCTCCTGGCGCTGCCAC
GCGACGCCGGGCGCCGCGCAGGAGCGCATGGTCGGAGAACTCCGGGACCTGTCGCCCGACGCCCGCA
GGTGCAGAAGGCGGCGCAGGCGGCGTGGCCAGCTACAACATGGGAGCAACAGCATCTACTACTCCGA
GACACGCACATCATCAAGGCGCAGAGCCAGCTGGTGGCCGCATCAAGTACTTCTGACGATGGAGATGG
GGAGCACAGACTGCCGAAGACCAGGGTCACTGGAGACCACGTCGACCTCACCATTGCCCCCTGGCAGC
AGGGGCGCAGCAGGAGAAGCTGCCTGTGACTTTGAGGTCCTTGTGGTTCCTGGCAGAACTCCTCTCAG
CTCCTAAAGCACAACTGTGTGCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207689 protein sequence
Red=Cloning site Green=Tags(s)

MARSNLPLALGLALVAFLLALPRDARARPQERMVGEIRDLSPPDPQVQKAAQAAVASYNMGSNSIYYFR
DTHI IKAQSQLVAGIKYFLTMEMGSTDCRKRTRVTGDHVDLTTCP LAAGAQQEKLRCDFEVLLVVPWQNSSQ
LLKHNCVQM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

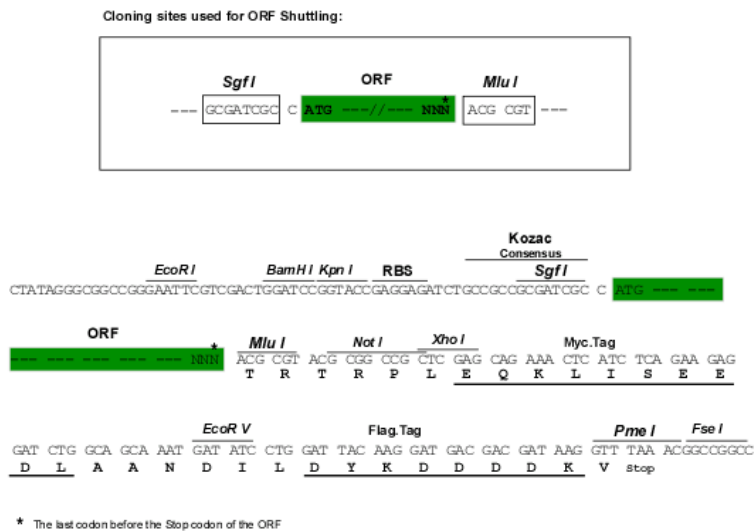
Chromatograms: https://cdn.origene.com/chromatograms/mk6128_e06.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001323

ORF Size: 447 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_001323.4](#)

RefSeq Size: 618 bp

RefSeq ORF: 450 bp

Locus ID: 1474

UniProt ID: [Q15828](#)

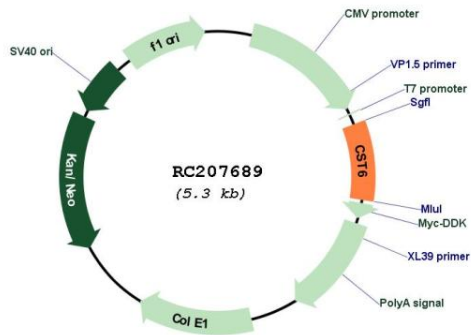
Cytogenetics: 11q13.1

Protein Families: Secreted Protein

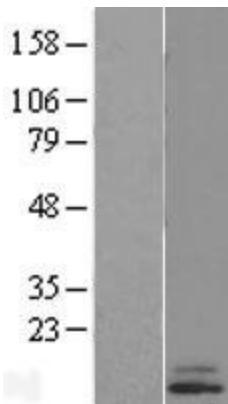
MW: 16.5 kDa

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, where they appear to provide protective functions. This gene encodes a cystatin from the type 2 family, which is down-regulated in metastatic breast tumor cells as compared to primary tumor cells. Loss of expression is likely associated with the progression of a primary tumor to a metastatic phenotype. [provided by RefSeq, Jul 2008]

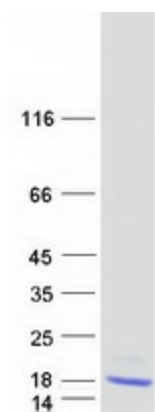
Product images:



Circular map for RC207689



Western blot validation of overexpression lysate (Cat# [LY400530]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207689 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CST6 protein (Cat# [TP307689]). The protein was produced from HEK293T cells transfected with CST6 cDNA clone (Cat# RC207689) using MegaTran 2.0 (Cat# [TT210002]).