

## Product datasheet for **RG207689**

### **CST6 (NM\_001323) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CST6 (NM\_001323) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CST6  
**Synonyms:** ECTD15  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207689 representing NM\_001323  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGTTTCGAACCTCCCGCTGGCGCTGGCCCTGGCCCTGGTTCGATTCTGCCTCCTGGCGTGCCAC  
 GCGACGCCGGGCCCGCCGAGGAGCGCATGGTCGGAGAATCCGGGACCTGTCGCCGACGACCCGCA  
 GGTGCAGAAGGCGGCGCAGGCGGCCGTGGCCAGCTACAACATGGGCAGCAACAGCATCTACTACTCCGA  
 GACACGCACATCATCAAGGCGCAGAGCCAGCTGGTGGCCGGCATCAAGTACTTCTGACGATGGAGATGG  
 GGAGCACAGACTGCCGAAGACCAGGGTCACTGGAGACCACGTCGACCTACCACTTGCCCTGGCAGC  
 AGGGGCGCAGCAGGAGAAGCTGCCTGTGACTTTGAGGTCCTTGTGGTTCCTGGCAGAACTCCTCTCAG  
 CTCTAAAGCACAACTGTGTGCAGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207689 representing NM\_001323  
 Red=Cloning site Green=Tags(s)

MARSNLPLALGLLALVAFLLALPRDARARPQERMVDELRLSPDDPQVQKAAQAAVASYNMGSNSIYYFR  
 DTHI IKAQSQLVAGIKYFLTMEMGSTDCRKRTRVTGDHVDLTTCPAAGAQQEKLRCDFEVLVVPWQNSSQ  
 LLKHNCVQM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**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:** 627 bp

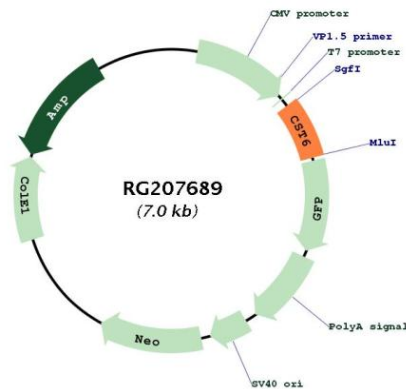
**RefSeq ORF:** 450 bp

**Locus ID:** 1474

**UniProt ID:** [Q15828](#)

<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	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 RG207689