

Product datasheet for **RG213147**

CSTII (NM_130794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CSTII
Synonyms:	CST8L; CTES2; dJ322G13.6; SC13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG213147 representing NM_130794
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCTGAGCCCTGGCAGGCCCTACAGCTCCTGTTGGCCATTCTATTGACTCTGATGGCCCTCCCCT
ACCAAGCAAGGAAGAAAACCTTTCTAAGCGTCCATGAAGTGATGGCAGTAGAAAATATGCGAAGGACAG
CTTGCACTGGATCACCGACCACTATAACAAGGAAAGTGATGACAAGTACCACTTCAGGATCTTCCGAGTC
CTTAAAGTCCAGAGGCAGGTCACTGACCACCTGGAGTATCACCTGAACGTGGAAATGCAGTGGACCACCT
GCCAAAAGCCAGAGACCACGAACCTGTGCCCCAGGAAAGGGAGCTTCAACAAGCAAGTCAACTGCTTCTT
CTCAGTGTTTGCTGTACCCTGGTTTGAACAGTACAAAATTTTGAACAAAAGCTGCAGCAGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213147 representing NM_130794
Red=Cloning site Green=Tags(s)

MMAEPWQALQLLLAILLTLMALPYQARKKTFLSVHEVMAVENYAKDSLQWITDQYNKESDDKYHFRIFRV
LKVQRQVTDHLEYHLNVEMQWTTCPETTNCPQERELHKQVNCFFSVFAVPWFEQYKILNKSCSSD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_130794

ORF Size: 414 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

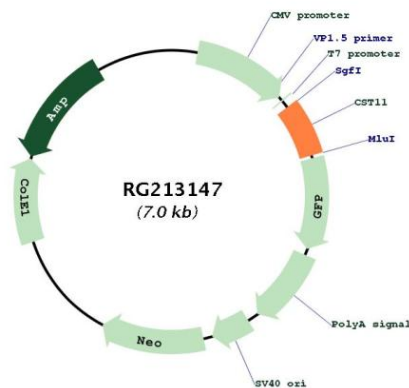
RefSeq: [NM_130794.2](#)
 RefSeq Size: 553 bp
 RefSeq ORF: 417 bp
 Locus ID: 140880
 UniProt ID: [Q9H112](#)

Cytogenetics: 20p11.21

Protein Families: Transmembrane

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 an epididymal-specific protein shown to have antimicrobial activity against *E. coli*. Alternative splicing yields two variants encoding distinct isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG213147