

Product datasheet for **RG220815**

CST9 (NM_001008693) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CST9 (NM_001008693) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CST9
Synonyms: CLM; CTES7A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220815 representing NM_001008693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCAGTCCGCAGAGGAGGAAGGCTATGCCCTGGGCACTGTCCTTCTCATGGGCTTCCAGCTCC
 TGGTGACTTATGCCTGGTGTCTGAAGAGGAAATGGGTGGTAATAATAAAATAGTCCAGGATCCTATGTT
 CTTGCCACAGTGGAGTTTGCCTGAACACTTTCAACGTGCAGAGCAAGGAGGAGCATGCCTACAGGCTG
 TTGCGCGTCCTGAGTTCATGGAGGGAGGATAGCATGGACAGAAAGTGGCGAGGTAAGATGGTGTCTCCA
 TGAATCTGCAACTGCGCCAAACCGTATGTAGGAAATTTGAAGATGACATTGACAAGTCCCTTTTCAAGA
 AAGCCTGGAGCTGAACAACGTAAGACAGGCATCAGCTTTCCTCAGGTCCACAGCTGTGGATGCTGCATG
 GGGTGTGGTGTGGGCACAGGAGCAGCTGACAAAGCCATTCGAGGGACAAAGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220815 representing NM_001008693
 Red=Cloning site Green=Tags(s)

MSSPQRRKAMPWALSLLLGMFQLLVYAWCSEEMGGNNKIVQDPMFFATVEFALNTFNVSKEEHAYRL
 LRVLSSWREDSMDRKWRGKMFVSMNLQLRQTVCRKFEDDIDNCPFQESLELNNVRQGISFPQVHSCGCCM
 GCGVGTGAADKAIPRDKGGK

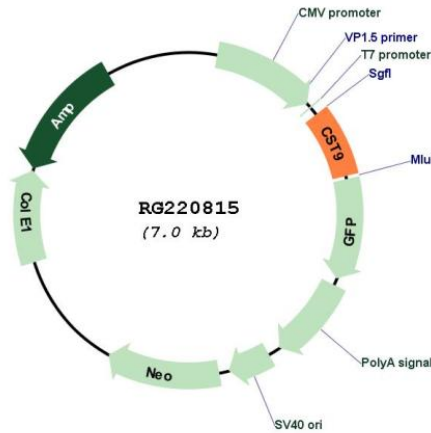
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:

Plasmid Map:


ACCN: NM_001008693

ORF Size: 477 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:	<ol style="list-style-type: none">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:	<u>NM_001008693.1, NP_001008693.1</u>
RefSeq Size:	1597 bp
RefSeq ORF:	480 bp
Locus ID:	128822
UniProt ID:	<u>Q5W186</u>
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, 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 protein that may play a role in hematopoietic differentiation or inflammation. [provided by RefSeq, Jul 2008]