

## Product datasheet for **RG206646**

### **CST9L (NM\_080610) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** CST9L  
**Synonyms:** bA2I8C14.1; CTES7B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >RG206646 representing NM\_080610  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGCGCTGCCGTGGAAGGGAGGTCTGTCCTGGGCGCTGCTGCTGCTTCTCTTAGGCTCCAGATCC  
TGCTGATCTATGCCTGGCATTTCACGAGCAAAGGGACTGTGATGAACACAATGTCATGGCTCGTTACCT  
CCCTGCCACAGTGGAGTTTGTGTCCACACATTCAACCAACAGAGCAAGGACTACTATGCCTACAGACTG  
GGGCACATCTTGAATTCCTGGAAGGAGCAGGTGGAGTCCAAGACTGTATTCTCAATGGAGCTACTGCTGG  
GGAGAACTAGGTGTGGGAAATTTGAAGACGACATTGACAACTGCCATTTCCAAGAAAGCACAGAGCTGAA  
CAATACTTTACCTGCTTCTTACCATCAGCACCAGGCCCTGGATGACTCAGTTCAGCCTCTGAACAAG  
ACCTGCTTGGAGGGATTCCAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG206646 representing NM\_080610  
Red=Cloning site Green=Tags(s)

MLGLPWKGGLSWALLLLLSQILLIYAWHFHEQRDCDEHNVMARYLPATVEFAVHTFNQQSKDYAYRL  
GHILNSWKEQVESKTVFSMELLLGRTRCGKFEDDIDNCHFQESTELNNTFTCFITSTRPWTQFSLNKK  
TCLEGFH

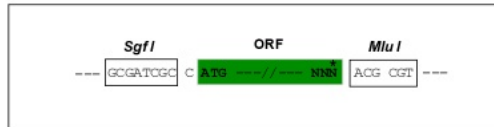
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGTACTAGTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---  
 T R T R P L E M E S D - - -  
 --- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT  
 - - E E R V Stop

**ACCN:** NM\_080610

**ORF Size:** 441 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\\_080610.3](#)

RefSeq Size: 902 bp

RefSeq ORF: 444 bp

Locus ID: 128821

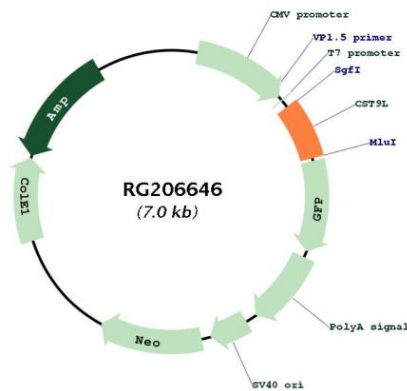
UniProt ID: [Q9H4G1](#)

Cytogenetics: 20p11.21

Protein Families: Secreted Protein, 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 a protein similar to mouse cystatin 9. Based on its testis-specific expression, it is likely to have a role in tissue reorganization during early testis development. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG206646