

## Product datasheet for **MG222507**

### Cst7 (NM\_009977) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cst7 (NM\_009977) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cst7  
**Synonyms:** Cmap  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222507 representing NM\_009977  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCTGGTCTGGAGCTGTA~~CTT~~GCCGAGCACTTGGCCCACTACATGCTCCCTGCATTCCCCAGCCA  
 TGTGGCTGGCCATTCTGCTTGCCTCTGCTGCCTAACTTCTGACACCCATGGGGCAGCCCCCAGATTT  
 TTGTTCCAAGATTTGATCTCCAGTGTGAAGCCAGGATCCCCAAAACAATAGAGACCAATAACCCAGGA  
 GTGCTTAAGCCGCCAGGCACAGTGTGAAAAGTTCAACAACGCACAAATGACATCTTTTTGTTCAAGG  
 AGTCCCATGTGAGCAAGCCCTGGTACAGTGGTAAAAGCCTGAAATATATGCTGGAGGTGAAAATCGG  
 CCGAACTACATGCAGGAAGACCATGCATCACCAACTGGACAACCTGTGACTTCAAACCAACCTGCCTTG  
 AAGCGGACTCTATATTGCTACTCTGAAGTCTGGGTCATCCCCTGGCTCCACAGTTTTGAGGTGCCTGTT  
 CCTCTGCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222507 representing NM\_009977  
 Red=Cloning site Green=Tags(s)

MPWSWSCTCRALGPLHAPCISPAMWLAILLALCCLTSDTHGARPPDFCSKDLISSVKPGFPKTIETNPPG  
 VLKAARHSVEKFNCTNDIFLFKESHVSKALVQVVKGLKYMLEVKIGRTTCRKTMMHQLDNCFQTPAL  
 KRTLYCYSEVWVWIPWLHSFEVPVLLCQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

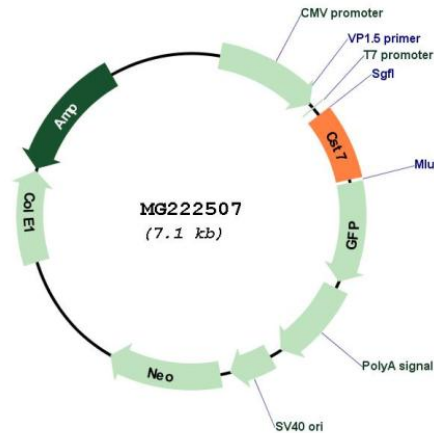


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_009977

ORF Size: 432 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_009977.2</a></u>
<b>RefSeq Size:</b>	986 bp
<b>RefSeq ORF:</b>	435 bp
<b>Locus ID:</b>	13011
<b>UniProt ID:</b>	<u><a href="#">O89098</a></u>
<b>Cytogenetics:</b>	2 G3
<b>Gene Summary:</b>	Inhibits papain and cathepsin L but with affinities lower than other cystatins. May play a role in immune regulation through inhibition of a unique target in the hematopoietic system. [UniProtKB/Swiss-Prot Function]