

## Product datasheet for MC208358

### Ctsg (NM\_007800) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsg (NM_007800) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctsg
Synonyms:	CatG; VSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208358 representing NM_007800 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCCTCCTGCTCCTGTTGACCTTTATTCTACTCCAAGGAGATGAGGCAGGGAAGATCATTGGAG  
GCCGAGAAGCCAGGCCCATTCCTACCCCTACATGGCATTCTTCTGATCCAGAGTCCAGAAGGGCTGAG  
TGCTTGTGGAGGGTTTCTGGTGCAGAAAGACTTCGTCCTAACAGCAGCTCATTGCTTGGGAAGCTCCATA  
AATGTTACTCTAGGGGCCACAACATCCAATGCGAGAAAGACCAGCAACTCATCACAGTGCTCAGAG  
CCATCCGCCATCCTGATTACAATCCGCAGAACATCCGGAATGACATCATGCTTCTGCAGCTGAGGCGCAG  
AGCCCGGAGGAGTGGATCGGTGAAGCCTGTGGCTCTGCCTCAGGCCAGCAAAAACTGCAGCCAGGGGAT  
TTGTGCACAGTGGCTGGCTGGGGCCGGTAAGCCAGAGCAGGGGAACAAATGTACTCCAGGAGGTGCAGC  
TAAGAGTGCAGATGGACCAATGTGCGCAATCGCTTCCAGTTCTACAACAGCCAGACTCAGATCTGTGT  
GGGAAACCCGAGAGAAAGGAAGTCTGCCTTCCAGGGGTGATTCTGGTGGCCCCCTGGTATGTAGCAATGTG  
GCCAGGGCATCGTCTCCTATGGAAGCAACAATGGTAACCCTCCAGCTGTATTACCAAAATCCAGAGCT  
TCATGCCCTGGATCAAAGAACAATGAGACGCTTTCACCAAGATATCAGAGACCTGCTAACTCCCTGTC  
TCAGGCACAGACCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_007800
Insert Size:	786 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_007800.2](#), [NP\\_031826.1](#)

**RefSeq Size:** 1004 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 13035

**UniProt ID:** [P28293](#)

**Cytogenetics:** 14 28.19 cM

**Gene Summary:** This gene encodes a member of the peptidase S1 (chymotrypsin) family of serine endopeptidases. The encoded preproprotein is proteolytically processed to generate a mature protein product. This product appears to play a role in host defense, including inflammation and antigen processing. Homozygous knockout mice for this gene exhibit enhanced susceptibility to bacterial and fungal infection. [provided by RefSeq, Aug 2015]