

## Product datasheet for **MG207379**

### Ctsc (NM\_009982) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsc (NM_009982) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctsc
Synonyms:	AI047818; CatC; D; DP; DPP1; DPPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207379 representing NM\_009982  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTCCTGGACCCACTCCTTGC GCGCGCTCTGCTGCTGGTCTTTTGGGAGCTGCACCGTGCCT  
 CCGACTCTGCAACTGCACCTACCCTGATCTGCTGGGCACCTGGGTGTTCCAGGTGGCCCTAGAAG  
 TTCCGAAGCGACATTAAGTCTCGGTGATGGAAGCAACAGAAGAAAAGTAGTGTACACCTTAAGAAG  
 TTGGATACTGCCTACGACGAGCTGGCAATTCGGGCATTTTACCCTCATTTACAACCAAGGCTTCGAGA  
 TTGTGTTGAATGACTACAAATGGTTTTCGCTTTTCAAGTATGAAGTACAGAGCCACACAGCTATCAGTTA  
 CTGCCATGAGACCATGACTGGTGGTCCATGATGTGCTGGGCCGGAAGTGGCTTGCTTTGTTGGCAAG  
 AAGGTGGAAGTACATTGAGAAGTTAATATGAATGCAGCACATCTGGAGGTCTCCAGAAAGATATT  
 CTGAAAGACTCTACACTACAACCACAACCTTTGTAAGGCCATCAATACCGTTCAGAAGTCTGGACTGC  
 AACTGCATATAAGGAATATGAGAAAATGAGCCTGCGAGATCTGATAAGGAGAAGTGGCCACAGCCAAAGG  
 ATCCCAAGGCCAAACCTGCCCCGATGACTGATGAAATACAGCAACAAATTTTAAATTTGCCAGAATCTT  
 GGGACTGGAGAAACGTCCAAGGCGTCAATTATGTTAGCCCTGTTGAAACCAAGAATCTTGTGGAAGCTG  
 CTACTCATTTGCCTCTATGGGTATGCTAGAAGCAAGAATTCGATATTAACCAACAATCTCAGACACCA  
 ATCCTGAGTCTCAGGAGTTGATCTTGCAGCCCTATGCCAAGGTTGTGATGGTGGATTCCCATACC  
 TCATTGCAGGGAAGTATGCCAAGATTTGGGGTGGTGGAAAGAAAGTGCCTTCCCTACAGCCAAAGA  
 TTCTCCATGCAACCAAGGAGAATTGCCTCCGTTACTATTCTTCTGACTACTACTATGTGGTGGTTTC  
 TATGGTGGCTGCAATGAAGCCCTGATGAAGCTTGAGCTGGTCAAACATGGACCCATGGCAGTTGCCCTTC  
 AAGTCCACGATGACTTCTACACTACCACAGTGAATCTATCACCACACTGGGCTGAGTGACCCCTTCAA  
 CCCCTTCGAGCTGACAAATCATGCTGTTTTGCTTGTGGCTATGGAAGAGATCCAGTTACTGGGATAGAA  
 TACTGGATTATAAAGAACAGCTGGGCTCTAACTGGGGGAGAGTGGCTACTTCCGTATCCGCAGAGGAA  
 CTGATGAATGTGCAATTGAGAGTATAGCCGTGGCGCCATACCGATTCTAAATTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207379 representing NM\_009982  
 Red=Cloning site Green=Tags(s)

MGPWTHSLRAVLLL VLLGVCTVRS DTPANCTYPDLLGTWVFQVGP RSRSDINCSVM EATEEKVVVHLKK  
 LDAYDELGN SGHFTLIYNQGF EIVLNDYKWF AFFKYEV RGHTAISYCHETMTGWVHDV LGRNWACFVGK  
 KVESHIEKVMNAAHLGGLQERYSERLYTHNHFVKAIN TVQKSWTATAYKEYEKMSLRDLIRRS GHSQR  
 IPRPKPAPMTDEIQQILNLPESWDWRNVQGVNYVSPVRNQESC GSCYSFASMGMLEARIRILT NNSQTP  
 ILSPQEVVSCSPYAQGC DGGFPYL IAGKYAQDFGVVEESC FPYTAKDSPCKPRENCLRYYS DYYYVGGF  
 YGGCNEALMKLELVKHGPM AVAFEVHDDFLHYHSGIYHHTGLSDPFNPFELTNHAVLLVGYGRDPVTGIE  
 YWIIKNSWGSNWGESGYFRIRRG TDECAIESIAVA AIPK L

**TR**TRPLE - GFP Tag - V

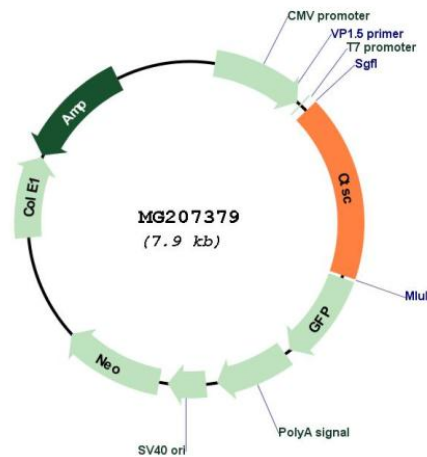
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_009982

ORF Size: 1386 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>	<a href="#">NM_009982.5</a>
<b>RefSeq Size:</b>	2444 bp
<b>RefSeq ORF:</b>	1389 bp
<b>Locus ID:</b>	13032
<b>UniProt ID:</b>	<a href="#">P97821</a>
<b>Cytogenetics:</b>	7 D3
<b>Gene Summary:</b>	<p>This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the dipeptidyl peptidase 1 light, heavy, and exclusion domain chains, which together comprise one subunit of the homotetrameric enzyme. This enzyme has amino dipeptidase activity and may play a role in the activation of granzymes during inflammation. Homozygous knockout mice for this gene exhibit impaired granzyme activation and enhanced survival in a sepsis model. [provided by RefSeq, Aug 2015]</p>