

Product datasheet for **MC216251**

Ctsc (NM_009982) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsc (NM_009982) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctsc
Synonyms:	AI047818; CatC; D; DP; DPP1; DPPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216251 representing NM_009982
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCCTGGACCACTCCTTGGCGCCGCTCTGCTGCTGGTCTTTGGGAGCTGCACCGTGGCT
 CCGACTCCTGCCAACTGCACCTACCCTGATCTGCTGGGCACCTGGGTGTTCCAGGTGGCCCTAGAAG
 TTCCGAAGCGACATTAAGTCTCGGTGATGGAAGCAACAGAAGAAAAGGTAGTGTACACCTTAAGAAG
 TTGGATACTGCCTACGACGAGCTGGCAATTCGGGCATTTTACCCTCATTTACAACCAAGGCTTCGAGA
 TTGTGTTGAATGACTACAAATGGTTTTCGTTTTTCAAGTATGAAGTACAGAGCCACACAGCTATCAGTTA
 CTGCCATGAGACCATGACTGGTGGTCCATGATGTGCTGGGCCGGAACGGGCTTGTCTTGTGGCAAG
 AAGGTGGAAGTACATTGAGAAGTTAATATGAATGCAGCACATCTGGAGGTCTCCAGAAAGATATT
 CTGAAAGACTCTACACTACAACCACAACCTTTGTAAGGCCATCAATACCGTTCAGAAGTCTGGACTGC
 AACTGCATATAAGGAATATGAGAAAATGAGCCTGCGAGATCTGATAAGGAGAAGTGGCCACAGCCAAAGG
 ATCCCAAGGCCAAACCTGCCCGATGACTGATGAAATACAGCAACAAATTTTAAATTTGCCAGAATCTT
 GGGACTGGAGAAACGTCCAAGGCGTCAATTATGTTAGCCCTGTTGAAACCAAGAATCTTGTGGAAGCTG
 CTACTCATTTGCCTCTATGGGTATGCTAGAAGCAAGAATTCGATATTAACCAACAATTCTCAGACACCA
 ATCCTGAGTCTCAGGAGTTGTATCTTGCAGCCCTATGCCAAGGTTGTGATGGTGGATTCCCATACC
 TCATTGCAGGGAAGTATGCCAAGATTTGGGGTGGTGGAAAGAAAGTGCCTTCCCTACACAGCCAAAGA
 TTCTCCATGCAACCAAGGAGAATTGCCTCCGTTACTATTCTTCTGACTACTACTATGTGGTGGTTTC
 TATGGTGGCTGCAATGAAGCCCTGATGAAGCTTGAGCTGGTCAAACATGGACCCATGGCAGTTGCCTTTG
 AAGTCCACGATGACTTCTACACTACCACAGTGAATCTATCACCACACTGGGCTGAGTACCCTTTCAA
 CCCCTTCGAGCTGACAAATCATGCTGTTTTGCTTGTGGCTATGGAAGAGATCCAGTTACTGGGATAGAA
 TACTGGATTATAAAGAACAGCTGGGCTCTAACTGGGGGAGAGTGGCTACTTCCGTATCCGCAGAGGAA
 CTGATGAATGTGCAATTGAGAGTATAGCCGTGGCGCCATACCGATTCTAAATTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_009982

Insert Size: 1389 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC067063](#), [AAH67063](#)

RefSeq Size: 1866 bp

RefSeq ORF: 1389 bp

Locus ID: 13032

UniProt ID: [P97821](#)

Cytogenetics: 7 D3

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.