

Product datasheet for **MR207379**

Ctsc (NM_009982) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR207379 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCCCTGGACCACTCCTTGC GCGCGCTCTGCTGCTGGTCTTTTGGGAGCTGCACCGTGCCT
 CCGACACTCCTGCCAACTGCACCTACCCTGATCTGCTGGGCACCTGGGTGTTCCAGGTGGCCCTAGAAG
 TTCCCGAAGCGACATTAAGTCTCGGTGATGGAAGCAACAGAAGAAAAGGTAGTGTACACCTTAAGAAG
 TTGGATACTGCCTACGACGAGCTGGCAATTCGGGCATTTTACCCTCATTTACAACCAAGGCTTCGAGA
 TTGTGTTGAATGACTACAAATGGTTTTCGCTTTTCAAGTATGAAGTACAGAGCCACACAGCTATCAGTTA
 CTGCCATGAGACCATGACTGGTGGTCCATGATGTGCTGGGCCGGAAGTGGGCTTGCTTTGTTGGCAAG
 AAGGTGGAAGTACATTGAGAAGTTAATATGAATGCAGCACATCTGGAGGTCTCCAGGAAAGATATT
 CTGAAAGACTCTACACTACAACCACAACCTTTGTGAAGCCATCAATACCGTTCAGAAGTCTTGACTGC
 AACTGCATATAAGGAATATGAGAAAATGAGCCTCGGAGATCTGATAAGGAGAAGTGGCCACAGCCAAAGG
 ATCCCAAGGCCAAACCTGCCCCGATGACTGATGAAATACAGCAACAAATTTTAAATTTGCCAGAATCTT
 GGGACTGGAGAAACGTCCAAGGCGTCAATTATGTTAGCCCTGTTGAAACCAAGAATCTTGTGGAAGCTG
 CTACTCATTTGCCTCTATGGGTATGCTAGAAGCAAGAATTCGATATTAACCAACAATTTCTCAGACACCA
 ATCCTGAGTCCTCAGGAGTTGATCTTGCAGCCCTATGCCAAGGTTGTGATGGTGGATTCCCATACC
 TCATTGCAGGGAAGTATGCCAAGATTTGGGGTGGTGGAAAGAAAGTGCCTTCCCTACACAGCCAAAGA
 TTCTCCATGCAACCAAGGGAAGTGCCTCCGTTACTATTCTTCTGACTACTACTATGTGGTGGTTTC
 TATGGTGGCTGCAATGAAGCCCTGATGAAGCTTGAGCTGGTCAAACATGGACCCATGGCAGTTGCCTTTG
 AAGTCCACGATGACTTCTACACTACCACAGTGAATCTATCACCACACTGGGCTGAGTACCCTTTCAA
 CCCCTTCGAGCTGACAAATCATGCTGTTTTGCTTGTGGCTATGGAAGAGATCCAGTTACTGGGATAGAA
 TACTGGATTATAAAGAACAGCTGGGCTCTAAGTGGGGGAGAGTGGCTACTTCCGTATCCGCAGAGGAA
 CTGATGAATGTGCAATTGAGAGTATAGCCGTGGCGCCATACCGATTCTAAATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207379 protein sequence
 Red=Cloning site Green=Tags(s)

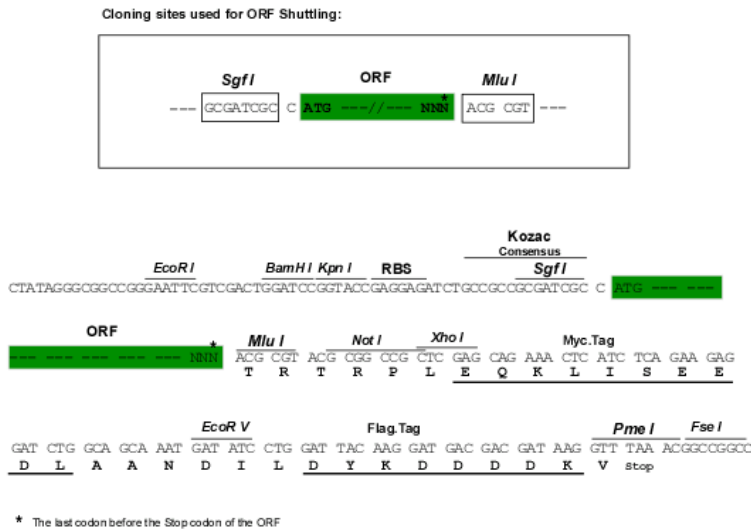
MGPWTHSLRAVLLL VLLGVCTVRS DTPANCTYPDLLGTWVFQVGP RSRSDINCSVM EATEEKVVVHLKK
 LDTAYDELGN SGHFTLIYNQGF EIVLNDYKWF AFKYEV RGHTAISYCHETMTGWVHDLGRNWACFV GK
 KVESHIEKVMNAAHLGGLQERYSERLYTHNHFVKAIN TVQKSWTATAYKEYEKMSLRDLIRRS GHSQR
 IPRPKPAPMTDEIQQILNLPESWDWRNVQGVNYVSPVRNQESC GSCYSFASMGMLEARIRILTNN SQTP
 ILS PQEVVSCSPYAQGC DGGFPYLIAGKYAQDFGVVEESC FPYAKDSPCKPRENCLRYSSDY YVGGF
 YGGCNEALMKLELVKHGPM AVAFEVHDDFLHYHSGIYHHTGLSDPFNPFELTNHAVLLVGYGRDPVTGIE
 YWIIKNSWGSNWGESGYFRIRRG TDECAIESI AVAAIPIPKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009982

ORF Size: 1389 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.

RefSeq: [NM_009982.5](#)

RefSeq Size: 2472 bp

RefSeq ORF: 1389 bp

Locus ID: 13032

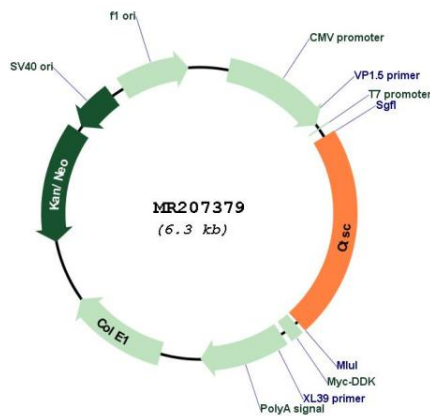
UniProt ID: [P97821](#)

Cytogenetics: 7 D3

MW: 52.4 kDa

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]

Product images:



Circular map for MR207379