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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
GCCGCGATCGCC

ATGGGTCCCTGGACCCACTCCTTGCGCGCCGTCCTGCTGCTGGTGCTTTTGGGAGTCTGCACCGTGCGCT
CCGACACTCCTGCCAACTGCACCTACCCTGATCTGCTGGGCACCTGGGTGTTCCAGGTGGGCCCTAGAAG
TTCCCGAAGCGACATTAACTGCTCGGTGATGGAAGCAACAGAAGAAAAGGTAGTGGTACACCTTAAGAAG
TTGGATACTGCCTACGACGAGCTGGGCAATTCCGGGCATTTTACCCTCATTTACAACCAAGGCTTCGAGA
TTGTGTTGAATGACTACAAATGGTTTGCGTTTTTCAAGTATGAAGTCAGAGGCCACACAGCTATCAGTTA
CTGCCATGAGACCATGACTGGGTGGGTCCATGATGTGCTGGGCCGGAACTGGGCTTGCTTTGTTGGCAAG
AAGGTGGAAAGTCACATTGAGAAGGTTAATATGAATGCAGCACATCTTGGAGGTCTCCAGGAAAGATATT
CTGAAAGACTCTACACTCACAACCACAACTTTGTGAAGGCCATCAATACCGTTCAGAAGTCTTGGACTGC
AACTGCATATAAGGAATATGAGAAAATGAGCCTGCGAGATCTGATAAGGAGAAGTGGCCACAGCCAAAGG
ATCCCAAGGCCCAAACCTGCCCCGATGACTGATGAAATACAGCAACAAATTTTAAATTTGCCAGAATCTT
GGGACTGGAGAAACGTCCAAGGCGTCAATTATGTTAGCCCTGTTCGAAACCAAGAATCTTGTGGAAGCTG
CTACTCATTTGCCTCTATGGGTATGCTAGAAGCAAGAATTCGTATATTAACCAACAATTCTCAGACACCA
ATCCTGAGTCCTCAGGAGGTTGTATCTTGCAGCCCCTATGCCCAAGGTTGTGATGGTGGATTCCCATACC
TCATTGCAGGGAAGTATGCCCAAGATTTTGGGGTGGTGGAAGAAAGCTGCTTTCCCTACACAGCCAAAGA
TTCTCCATGCAAACCAAGGGAGAATTGCCTCCGTTACTATTCTTCTGACTACTACTATGTGGGTGGTTTC
TATGGTGGCTGCAATGAAGCCCTGATGAAGCTTGAGCTGGTCAAACATGGACCCATGGCAGTTGCCTTTG
AAGTCCACGATGACTTCCTACACTACCACAGTGGAATCTATCACCACACTGGGCTGAGTGACCCTTTCAA
CCCCTTCGAGCTGACAAATCATGCTGTTTTGCTTGTGGGCTATGGAAGAGATCCAGTTACTGGGATAGAA
TACTGGATTATAAAGAACAGCTGGGGCTCTAACTGGGGGGAGAGTGGCTACTTCCGTATCCGCAGAGGAA
CTGATGAATGTGCAATTGAGAGTATAGCCGTGGCGGCCATACCGATTCCTAAATTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207379 representing NM_009982
Red=Cloning site Green=Tags(s)

MGPWTHSLRAVLLLVLLGVCTVRSDTPANCTYPDLLGTWVFQVGPRSSRSDINCSVMEATEEKVVVHLKK
LDTAYDELGNSGHFTLIYNQGFEIVLNDYKWFAFFKYEVRGHTAISYCHETMTGWVHDVLGRNWACFVGK
KVESHIEKVNMNAAHLGGLQERYSERLYTHNHNFVKAINTVQKSWTATAYKEYEKMSLRDLIRRSGHSQR
IPRPKPAPMTDEIQQQILNLPESWDWRNVQGVNYVSPVRNQESCGSCYSFASMGMLEARIRILTNNSQTP
ILSPQEVVSCSPYAQGCDGGFPYLIAGKYAQDFGVVEESCFPYTAKDSPCKPRENCLRYYSSDYYYVGGF
YGGCNEALMKLELVKHGPMAVAFEVHDDFLHYHSGIYHHTGLSDPFNPFELTNHAVLLVGYGRDPVTGIE
YWIIKNSWGSNWGESGYFRIRRGTDECAIESIAVAAIPIPKL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

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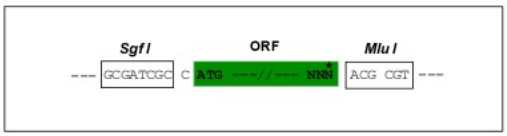
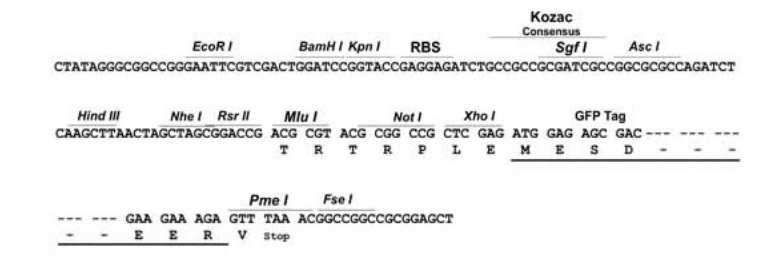
Cloning Scheme:





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.
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:	2444 bp
RefSeq ORF:	1389 bp
Locus ID:	13032
UniProt ID:	P97821
Cytogenetics:	7 D3

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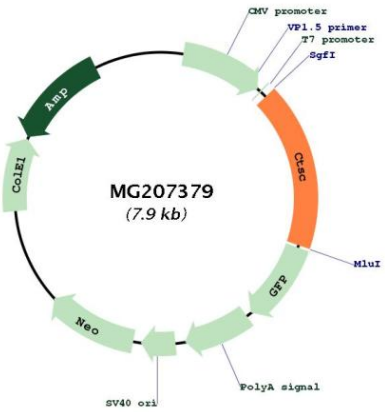
Gene Summary: This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include 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 MG207379

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