

Product datasheet for **MR226323**

Ctsg (NM_007800) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsg (NM_007800) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsg
Synonyms:	CatG; VSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226323 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCTCCTGCTCCTGTTGACCTTTATTCTACTCCAAGGAGATGAGGCAGGGAAGATCATTGGAG
GCCGAGAAGCCAGGCCCATTCCTACCCCTACATGGCATTCTTCTGATCCAGAGTCCAGAAGGGCTGAG
TGCTTGTGGAGGGTTTCTGGTGCGAGAAGACTTCGTCTAACAGCAGCTCATTGCTTGGGAAGCTCCATA
AATGTTACTCTAGGGGCCACAACATCCAATGCGAGAAAGACCAGCAACTCATCACAGTGCTCAGAG
CCATCCGCCATCCTGATTACAATCCGCAGAACATCCGGAATGACATCATGCTTCTGCAGCTGAGGCGCAG
AGCCCGGAGGAGTGGATCGGTGAAGCCTGTGGCTCTGCCTCAGGCCAGCAAAAACTGCAGCCAGGGGAT
TTGTGCACAGTGGCTGGCTGGGGCCGGTAAGCCAGAGCAGGGGAACAAATGTACTCCAGGAGGTGCAGC
TAAGAGTGCAGATGGACCAAATGTGCGCAATCGCTTCCAGTTCTACAACAGCCAGACTCAGATCTGTGT
GGGAAACCCGAGAGAAAGGAAGTCTGCCTCAGGGGTGATTCTGGTGGCCCCCTGGTATGTAGCAATGTG
GCCAGGGCATCGTCTCCTATGGAAGCAACAATGGTAACCCTCCAGCTGTATTACCAAAATCCAGAGCT
TCATGCCCTGGATCAAAGAACAATGAGACGCTTTGCACCAAGATATCAGAGACCTGCTAACTCCCTGTC
TCAGGCACAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR226323 protein sequence
Red=Cloning site Green=Tags(s)

MQPLLLLLTFILLQGDEAGKIIGGREARPHSYPYMAFLLIQSPEGLSACGGFLVREDFVL TAAHCLGSSI
 NVTLGAHNIQMRERTQQLITVLRAIRHPDYNPQINRNDIMLLQLRRRARRSGSVKPVALPQASKKLQPGD
 LCTVAGWGRVSSQSRGTNVLQEVQLRVQMDQMCANRFQFYNSQTQICVGNPRERKSAFRGDSGGPLVCSNV
 AQGIVSYGSNNGNPPAVFTKIQSFMPWIKRTMRRFAPRYQRPANLSQAQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007800

ORF Size: 786 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_007800.2](#), [NP_031826.1](#)

RefSeq Size: 1004 bp

RefSeq ORF: 786 bp

Locus ID: 13035

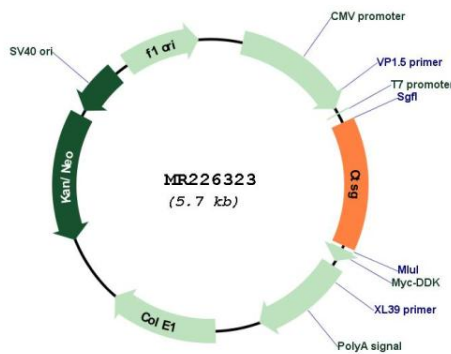
UniProt ID: [P28293](#)

Cytogenetics: 14 28.19 cM

MW: 29.1 kDa

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]

Product images:



Circular map for MR226323