

## Product datasheet for MR215191

### Ctsh (NM\_007801) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ctsh (NM\_007801) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ctsh  
**Synonyms:** AL022844  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR215191 representing NM\_007801  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGGCTGCGCTGCCGCTGCTGTGCGCTGGGCGCTGGCTGCTGAGTACTGGGGCCACCGCCGAGCTGA  
 CCGTGAACGCCATAGAAAAGTTTCACTTTAAGTCATGGATGAAACAGCATCAAAGACGTACAGCTCGGT  
 GGAGTACAACCACAGACTGCAGATGTTTGCCAACAACCTGGAGGAAGATTCAGCCACAACCAGAGGAAC  
 CACACATTTAAAATGGCATTGAACCAAGTTTTCAGATATGAGCTTTGCTGAAATAAAACACAAATTCCTTT  
 GGTCAGAGCCTCAGAATTGCTCAGCCACCAAAAGTAACCTCCGAGGTACAGGCCCTACCCTTCCTC  
 CATGGACTGGAGGAAGAAAGGAAATGTTGTTTCGCCAGTGAAAAATCAGGGGGCCTGTGGCAGCTGCTGG  
 ACTTTCTCTACCACGGGGCCCTAGAGTCAGCTGTGGCTATTGCCAGTGGGAAAAATGCTGTCTTTGGCTG  
 AGCAGCAGCTGGTGGATTGTGCCAAGCCTTCAACAATCATGGCTGCAAAGGAGGTCTCCCCAGCCAGGC  
 CTTTCGAGTACATCCTATACAACAAGGCCATCATGGAAGAAGACAGCTACCCTTACATAGGCAAGGATAGT  
 TCATGCAGATTCAACCCCAAAAAGCTGTTGCATTGTCGAAGAATGTTGTCAACATCACACTCAATGACG  
 AGGCTGCAATGGTTGAGGCTGTGGCTCTATAACAACCTGTGAGCTTCGCCTTTGAGGTGACTGAAGATTT  
 TTTGATGTATAAAAAGTGGCGTCTACTCCAGTAAATCCTGTCATAAACTCCAGATAAAGTAAACCATGCA  
 GTCCTGGCGGTTGGCTATGGAGAACAAGTGGATTACTCTACTGGATTGTGAAAACTCTTGGGGCTCCC  
 AGTGGGGGAGAATGGGTACTTCTCATTGAACGTGGGAAGAACATGTGTGGCCTGGCTGCTTGTGCCTC  
 CTATCCCATTCCTCAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**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\\_007801.3](#)

**RefSeq Size:** 1627 bp

**RefSeq ORF:** 1002 bp

**Locus ID:** 13036

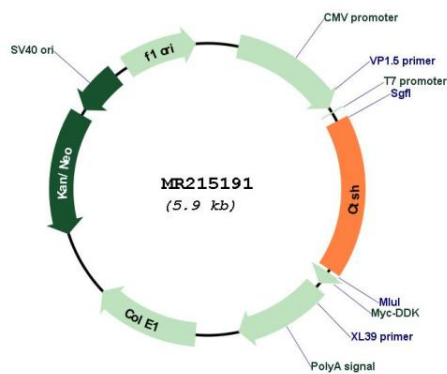
**UniProt ID:** [P49935](#)

**Cytogenetics:** 9 47.4 cM

**MW:** 37.6 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 cathepsin H mini, heavy, and light chains. In rat and human, these three chains can associate to form the mature enzyme, which has both aminopeptidase and endopeptidase activities. Homozygous knockout mice for this gene exhibit impaired lung surfactant processing and reduced tumorigenesis in a pancreatic cancer model. Multiple pseudogenes of this gene have been identified in the genome. [provided by RefSeq, Aug 2015]

### Product images:



Circular map for MR215191