

Product datasheet for **MC200600**

Ctsb (BC006656) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsb (BC006656) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctsb
Synonyms:	CB
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006656
 CCGAGCTGCGCGGGTACTTAGGAGTGCACGGGAGAGGCCAGGAGCGGCTCCGTTTGGCTTGGTGGCTGCA
 GGCCAGGCTGTCGCGCTGCGCTCGGTGAGTGCAGGATCCAGCATCCAGGATGTGGTGGTCTTGATCCT
 TCTTTCTTGCCTGCTGGCACTGACCAGTGGCCATGACAAGCCTTCCTCCACCCGCTGTCGGATGACCTG
 ATTAACATATCAACAAACAGAATAACAATGGCAGGCTGGACGCAACTTCTACAATGTTGACATAAGCT
 ATCTGAAGAAGCTGTGTGCCTGTCTGGTGGACCCAACTGCCAGGAAGGGTTGCGTTTCGGTGAGGA
 CATAGATCTACCTGAAACCTTTGATGCACGGGAACAATGGTCCAACCTGCCGACCATTGGACAGATTAGA
 GACCAGGGCTCCTGCGGCTCTTGTGGCATTGGGGCAGTGGAAGCCATTTCTGACCGAACCTGCATT
 ACACCAATGGCCGAGTCAACGTGGAGGTGTCTGTGAAGACCTGTTACTTGCTGTGGTATCCAGTGTGG
 GGACGGCTGTAATGGTGGCTATCCCTCTGGAGCATGGAGCTTCTGGACAAAAAAGGCTGGTTTCAGGT
 GGAGTCTACAATTCTCATGTAGGCTGTTACCATAACCATCCCTCCCTGCGAGCACCATGTCAATGGCT
 CCCGTCCTCCATGCACTGGAGAAGGAGATACTCCAGGTGCAACAAGAGCTGTGAAGCTGGCTACTCCCC
 ATCCTACAAGAGGATAAGCACTTTGGGTACACTTCTACAGCGTGTCTAACAGTGTGAAGGAGATCATG
 GCAGAAATCTACAAAAATGGCCAGTGGAGGGTGCCTTCACTGTGTTTTCTGACTTCTTGACTTACAAAT
 CAGGAGTATAACAAGCATGAAGCCGGTGATATGATGGGTGGCCAGCCATCCGCATCCTGGGCTGGGGAGT
 AGAGAATGGAGTCCCTACTGGCTGGCAGCCAACCTTTGGAACCTTGACTGGGGTGATAATGGCTCTTT
 AAAATCCTCAGAGGAGAGAACCCTGTGGCATTGAATCAGAAATTGTGGCTGGAATCCCACGCACTGACC
 AGTACTGGGAAGATTCTAATCTGCTTTGACTTATTGTCCAGTCCCTTAGGGGCTTTTTCCAAAATTTAG
 CGGCCTTGGCAGGGAATGAGGTAGACAGGGGAGTCTTTGATTCTTTGAGTTTATCAATGCATGAAGC
 TTTTGGCAAGATTTGGACGACTGGACCAGAGCTGCCTGCCATCAGAGCTACCCTCCAAACTGTCCTTA
 CCTGGCTCCTCCTAGCCATCCCACGACAGTGATCACAGTCTGCATCCTAGCCTCTCCCTAGACTAGTG
 CGGTTTGTAGTGCCTGCTTGTGGCTCTGCCTGCCATACCTCCCACCCCATCCCCATCCCAGCATCCG
 AGGACCCAAAGGCTTTGACTGCAGGACTTCCAAAAGAACAACACTTCCAGAGAGGACAAATGCCACCTC
 TCAGTGCATCTTGAAGCTGGTCACTTCTGGGTCTGTGGCAGGCATTTCGTCAATGGCCAGTGCAGTCT
 CTGGAGAAAGCTACCTTTTCCAAAGGCATCTGCATCCATCGACATTGGTAATGTGGCCAGCTCTCCTTGG
 TCCTGTCTCAGCCGATGCTTTTTCAATAGGATTTTTATGCTTTGTGTACCTCAACCAAGTATGAAGAGC
 TGTACTGGTTTTATAGATCACCCCAATTGTATGGCTTAAAAACAAGCTACATGGTCATGGTTTGTGTGT
 GACCGACAGATAACCACAATGAAACTAGTCTGGAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC006656

Insert Size: 1020 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: [BC006656](#), [AAH06656](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1020 bp

Locus ID: 13030

Cytogenetics: 14 33.24 cM

Gene Summary: This gene encodes a member of the peptidase C1 family and preproprotein that is proteolytically processed to generate multiple protein products. These products include the cathepsin B light and heavy chains, which can dimerize to generate the double chain form of the enzyme. This enzyme is a lysosomal cysteine protease with both endopeptidase and exopeptidase activity that may play a role in protein turnover. Homozygous knockout mice for this gene exhibit reduced pancreatic damage following induced pancreatitis and reduced hepatocyte apoptosis in a model of liver injury. Pseudogenes of this gene have been identified in the genome. [provided by RefSeq, Aug 2015]