

## Product datasheet for **MC216811**

### Ctsa (NM\_008906) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsa (NM_008906) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctsa
Synonyms:	AU019505; P; Pp; PPCA; Ppgb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216811 representing NM\_008906  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACTTCCAGTCCAAGGCGCCTCCTGGAGAGCAAGGACGCAAGGAAGCAGAGATGCCCGAACCGCGC  
TGCTCCTCACTGCTTGTGGCTGCTCCTGTCTGGGCGTCCCGGAACGAAGCAGCTCCGGACCAGGATGA  
AATCGATTGTCTCCCGGCTGGCCAAGCAGCCCTCTTCCGGCAATACTCCGGTCACTCAGAGCATCG  
GACTCCAAGCACTTCCACTACTGGTTTGTGGAGTCGAGAACGACCCAAAGAAGCAGCCCGTGGTCTTT  
GGCTTAACGGGGTCCCGGCTGCAGCTCGCTCGATGGGCTGTTACAGAGCACGGCCCTTTCTGATCCA  
GCCAGATGGTGTACCCTGGAGTACAACCCTATGCTTGGAACTGATTGCCAACGTGCTGTATATCGAG  
TCCCCAGCTGGGGTGGGCTTCTCCTACTCGGATGACAAGATGTACGTGACCAATGACACAGAGGTGGCGG  
AGAACAATTATGAAGCCCTAAAGACTTCTTCCGCCTCTTCCGGAATACAAGGACAACAACTTTCTCT  
GACAGGAGAGAGCTATGCTGGCATCTACATCCCCACCTTGGCTGTACTGGTCATGCAGGATCCTAGCATG  
AATCTTACAGGGGCTGGCTGTGGCAATGGACTTGCTCCTATGAGCAGAACGACAACCTCCCTGGTCTACT  
TTGGCTACTACCATGGCCTTCTGGGGAACAGACTTTGGACTTCACTGCAGACCCACTGCTGCGCTCAGAA  
CAAGTGTAACTTCTATGACAACAAAGACCCAGAGTGTGTAACAATCTCCTGGAAGTGTCTCGAATTGTG  
GGCAAACTGGCCTCAACATCTACAATCTATGCTCCGTGTGCTGGTGGGGTGGCCGGCAGACATAGAT  
ATGAGGACACACTTGTAGTCCAGGATTTGGCAACATCTCACTCGCCTGCCACTAAGCGGAGATTTCC  
TGAGGCACTGATGCGTTCTGGGGACAAGGTACGCTTGGATCCTCCCTGCACCAACACCACAGCCCTTCC  
AACTACCTCAACAACCCCTATGTTCCGAAGGCTCTCCACATCCCCGAGTCGCTGCCCGCTGGGACATGT  
GCAACTTCTTGGTGAATTTACAGTACCGCCGCTCTACCAAGCATGAACTCCAGTACCTGAAGCTGCT  
CAGTTTACAGAAAATACCAGATCCTGCTCTACAACGGAGATGTGGACATGGCCTGCAACTTCATGGGCGAT  
GAGTGGTTTGTGATTGCTCAACCAGAAGATGGAGGTGCAGCGCCGGCCCTGGCTAGTGGACTACGGGG  
AGAGCGGAGAACAGGTAGCTGGTTTCGTGAAGGAGTGTTCACACATCACCTTCTCACCATCAAGGGTGC  
CGGACACATGGTCCCACGGACAAGCCTCGAGCTGCTTTTACCATGTTCTCGAGGTTCTGAACAAAGAG  
CCTTACTGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_008906

**Insert Size:** 1479 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:** [NM\\_008906.4](#), [NP\\_032932.2](#)

**RefSeq Size:** 3301 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 19025

**Cytogenetics:** 2 85.27 cM

**Gene Summary:** This gene encodes a glycoprotein with deamidase, esterase and carboxypeptidase activities. The encoded protein associates with and provides a protective function to the lysosomal enzymes beta-galactosidase and neuraminidase. Deficiency of the related gene in humans results in galactosialidosis. The proprotein is processed into two shorter chains. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]  
Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (a).