

Product datasheet for **MC216412**

Ctsa (NM_001038492) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsa (NM_001038492) 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: >MC216412 representing NM_001038492
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGAACCGCGCTGTCTCCACTGCTCTTGTGTCTCTGTCTCTGGCGTCCCGAACGAAGCAG
 CTCCGGACCAGGATGAAATCGATTGTCTCCCGGCCTGGCCAAGCAGCCCTCTTTCCGGCAATACTCCGG
 CTACCTCAGAGCATCGGACTCCAAGCACTTCCACTACTGGTTTGTGGAGTCGAGAACGACCCAAAGAAC
 AGCCCCGTGGTCTTTGGCTTAACGGGGTCCCGGCTGCAGCTCGCTCGATGGGCTGTTACAGAGCAG
 GCCCTTTCTGATCCAGCCAGATGGTGTACCCTGGAGTACAACCCCTATGCTTGGAACTGATTGCCAA
 CGTGCTGTATATCGAGTCCCAGCTGGGTGGCTTCTCCTACTCGGATGACAAGATGTACGTGACCAAT
 GACACAGAGGTGGCGGAGAACAATTATGAAGCCCTTAAAGACTTCTTCGCCTCTTCCGGAATAACAAG
 ACAACAACTTTTCTGACAGGAGAGAGCTATGCTGGCATCTACATCCCCACCTGGCTGTACTGGTCAT
 GCAGGATCCTAGCATGAATCTTCAGGGTGGCTGTGGCAATGGACTTGCCTCCTATGAGCAGAACGAC
 AACTCCCTGGTCTACTTTGCCTACTACCATGGCCTTCTGGGAACAGACTTTGGACTTCACTGCAGACCC
 ACTGCTGCGCTCAGAACAAGTGAACCTTCTATGACAACAAGACCCAGAGTGTGTAACAATCTCCTGGA
 AGTGTCTCGAATTGTGGGCAATCTGGCCTCAACATCTACAATCTCTATGCTCCGTGTGCTGGTGGGGTG
 CCCGGCAGACATAGATATGAGGACACACTTGTAGTCCAGGATTTTGGCAACATCTTCACTCGCCTGCCAC
 TTAAGCGGAGATTTCTGAGGCACTGATGCGTTCTGGGACAAGGTACGCTTGGATCCTCCCTGCACCAA
 CACCACAGCCCCCTTCAACTACCTCAACAACCCCTATGTTCCGGAAGGCTCTCCACATCCCCGAGTCGCTG
 CCCCCTGGGACATGTGCAACTTCTTGGTGAATTTACAGTACCAGGCTCTACCAAAGCATGAACCTCC
 AGTACCTGAAGCTGCTCAGTTCACAGAAATACCAGATCCTGCTCTACAACGGAGATGTGGCATGGCCTG
 CAACTTCATGGGCGATGAGTGGTTTGTGGATTCGCTCAACCAGAAGATGGAGGTGCAGCGCCGCTGG
 CTAGTGGACTACGGGAGAGCGGAGAACAGGTAGCTGGTTTCTGTAAGGAGTGTTCACACATCACCTTCC
 TCACCATCAAGGGTCCCGGACACATGGTCCCCACGGACAAGCCTCGAGCTGCTTTTACCATGTTCTCGAG
 GTTCTGAACAAAGAGCCTTACT**G**A

ACGGTACGGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001038492

Insert Size: 1425 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_001038492.2](#), [NP_001033581.1](#)

RefSeq Size: 3548 bp

RefSeq ORF: 1425 bp

Locus ID: 19025

UniProt ID: [P16675](#)

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 (2) differs in the 5' UTR, and initiates translation at an alternate downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.