

Product datasheet for **MG207589**

Ctsa (NM_001038492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsa (NM_001038492) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctsa
Synonyms:	AU019505; P; Pp; PPCA; Ppgb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207589 representing NM_001038492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCGAACCGCGCTGTCTCCACTGCTCTTGTGTCTCCTGTCTGGCGTCCCGGAACGAAGCAG
 CTCCGGACCAGGATGAAATCGATTGTCTCCCCGGCCTGGCCAAGCAGCCCTCTTTCCGGCAATACTCCGG
 CTACCTCAGAGCATCGGACTCCAAGCACTTCCACTACTGGTTTGTGGAGTCGAGAACGACCCAAAGAAC
 AGCCCCGTGGTGTCTTGGCTTAACGGGGTCCCAGCTGCAGCTCGCTCGATGGGCTGCTTACAGAGCAG
 GCCCTTTCTGATCCAGCCAGATGGTGTACCCTGGAGTACAACCCCTATGCTTGGAACTGATTGCCAA
 CGTGCTGTATATCGAGTCCCAGCTGGGTGGCTTCTCCTACTCGATGACAAGATGTACGTGACCAAT
 GACACAGAGGTGGCGGAGAACAATTATGAAGCCCTTAAAGACTTCTTCCGCCTCTTCCGGAATAACAAG
 ACAACAACTTTTCTGACAGGAGAGAGCTATGCTGGCATCTACATCCCCACCTGGCTGTACTGGTCAT
 GCAGGATCCTAGCATGAACCTTCAGGGCTGGCTGTGGCAATGGACTTGCTCCTATGAGCAGAACGAC
 AACTCCCTGGTCTACTTTGCCTACTACCATGGCCTTCTGGGAACAGACTTTGGACTTCACTGCAGACCC
 ACTGCTGCGCTCAGAACAAGTGAACCTTCTATGACAACAAGACCCAGAGTGTGTAACAATCTCCTGGA
 GGTGTCTCGAATTGTGGGCAATCTGGCCTCAACATCTACAATCTCTATGCTCCGTGTGCTGGTGGGGTG
 CCCGGCAGACATAGATATGAGGACACACTTGTGGTCCAGGATTTTGGCAACATCTTCACTCGCCTGCCAC
 TCAAGCGGAGATTTCTGAGGCACTGATGCGTTCTGGGACAAGGTACGCTTGGATCCTCCCTGCACCAA
 CACCACAGCCCCCTTCAACTACCTCAACAACCCCTATGTTCCGGAAGGCTCTCCACATCCCCGAGTCGCTG
 CCCCGCTGGGACATGTGCAACTTCTTGGTGAATTTACAGTACCGCCGCTCTACCAAAGCATGAATCCC
 AGTACCTGAAGCTGCTCAGTTCACAGAAATACCAGATCCTGCTCTACAACGGAGATGTGGACATGGCCTG
 CAACTTATGGGCGATGAGTGGTTTGTGGATTCACTCAACCAGAAGATGGAGGTGCAGCGCCGGCCCTGG
 CTAGTGGACTACTGGGAGAGCGGAGAACAGGTAGCTGGTTTCTGTAAGGAGTGTTCACACATCACCTTCC
 TCACCATCAAGGGTCCCGGACACATGGTCCCCACGGACAAGCCTCGAGCTGCTTTTACCATGTTCTCGAG
 GTTCTGAACAAAGAGCCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207589 representing NM_001038492
 Red=Cloning site Green=Tags(s)

MPGTALSPLLLLLLWSASRNEAAPDQDEIDCLPGLAKQPSFRQYSGYLRASDSKHFHYWFVESQNDPKN
 SPVVLWLNNGPGCSSLDGLL TEHGPFLIQPDGVTLEYNPYAWNLIANVLYIESPAGVGFYSDDKMYVTN
 DTEVAENNYEALKDFRFLPEYKDNKFLTGESYAGIYIPTLAVLVMQDPSMNLQGLAVGNGLASYEQND
 NSLVYFAYYHGLLGNRLWTSLQTHCCAQNKCNFYDNKDPECVNNLLEVSRIVGSGLNIYNLYAPCAGGV
 PGRHRYEDTLVVQDFGNIFTRLPLKRRFPEALMRSGDKVRLDPPCTNTTAPSNYLNPNPYVRKALHIPESL
 PRWDMCNFLVNLQYRRLYQMSNSQYLKLLSSQYQILLYNGDVDMACNFMGDEWFVDSL NQKMEVQRRPW
 LDVYWESGEQVAGFVKECSHITFLT IKGAGHMVPTDKPRAAFTMFSRFLNKEPY

TRTRPLE - GFP Tag - V

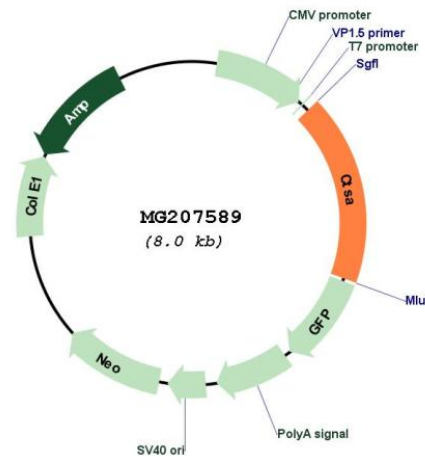
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001038492

ORF Size: 1422 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_001038492.1](#), [NP_001033581.1](#)

RefSeq Size: 3547 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]