

Product datasheet for **MR207589**

Ctsa (NM_001038492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsa (NM_001038492) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsa
Synonyms:	AU019505; P; Pp; PPCA; Ppgb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207589 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCGAACCGCGCTGTCTCCACTGCTCTTGTGTCTCCTGTCTGGCGTCCCGAACGAAGCAG
 CTCCGGACCAGGATGAAATCGATTGTCTCCCCGGCCTGGCCAAGCAGCCCTCTTTCCGGCAATACTCCGG
 CTACCTCAGAGCATCGGACTCCAAGCACTTCCACTACTGGTTTGTGGAGTCGAGAACGACCCAAAGAAC
 AGCCCCGTGGTCTTTGGCTTAACGGGGTCCCGGCTGCAGCTCGCTCGATGGGCTGCTTACAGAGCAG
 GCCCTTTCTGATCCAGCCAGATGGTGTACCCTGGAGTACAACCCCTATGCTTGGAACTGATTGCCAA
 CGTGCTGTATATCGAGTCCCAGCTGGGGTGGCTTCTCCTACTCGGATGACAAGATGTACGTGACCAAT
 GACACAGAGGTGGCGGAGAACAATTATGAAGCCCTTAAAGACTTCTTCCGCCTCTTCCGGAATAACAAG
 ACAACAACTTTTCTGACAGGAGAGAGCTATGCTGGCATCTACATCCCCACCTGGCTGTACTGGTCAT
 GCAGGATCCTAGCATGAACCTTCAGGGGCTGGCTGTGGCAATGGACTTGCTCCTATGAGCAGAACGAC
 AACTCCCTGGTCTACTTTGCCTACTACCATGGCCTTCTGGGGAACAGACTTTGGACTTCACTGCAGACCC
 ACTGCTGCGCTCAGAACAAGTGAACCTTCTATGACAACAAGACCCAGAGTGTGTAACAATCTCCTGGA
 GGTGTCTCGAATTGTGGGCAATCTGGCCTCAACATCTACAATCTCTATGCTCCGTGTGCTGGTGGGGTG
 CCCGGCAGACATAGATATGAGGACACACTTGTGGTCCAGGATTTTGGCAACATCTTCACTCGCCTGCCAC
 TCAAGCGGAGATTTCTGAGGCACTGATGCGTTCTGGGACAAGGTACGCTTGGATCCTCCCTGCACCAA
 CACCACAGCCCTTCAACTACCTCAACAACCCCTATGTTCCGGAAGGCTCTCCACATCCCCGAGTCGCTG
 CCCCGCTGGGACATGTGCAACTTCTTGGTGAATTTACAGTACCAGGCTCTACAAAGCATGAACCTCC
 AGTACCTGAAGCTGCTCAGTTCACAGAAATACCAGATCCTGCTCTACAACGGAGATGTGGACATGGCCTG
 CAACTTCATGGGCGATGAGTGGTTTGTGGATTCACTCAACCAGAAGATGGAGGTGACGCGCCGGCCTGG
 CTAGTGGACTACTGGGAGAGCGGAGAACAGGTAGCTGGTTTCTGTAAGGAGTGTTCACACATCACCTTCC
 TCACCATCAAGGGTCCCGGACACATGGTCCCCACGGACAAGCCTCGAGCTGCTTTTACCATGTTCTCGAG
 GTTCTGAACAAAGAGCCTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207589 protein sequence
 Red=Cloning site Green=Tags(s)

MPGTALSPLLLLLLWSASRNEAAPDQDEIDCLPGLAKQPSFRQYSGYLRASDSKHFHYWFVESQNDPKN
 SPVVLWLNNGPGCSSLDGLL TEHGPFLLIQPDGVTLEYNPYAWNLIANVLYIESPAGVGFYSDDKMYVTN
 DTEVAENNYEALKDFRFLFPEYKDNKFLFTGESYAGIYIPTLAVLVMQDPSMNLQGLAVGNGLASYEQND
 NSLVYFAYYHGLLGNRLWTSLQTHCCAQNKCNFYDNKDPECVNNLLEVSRIVGKSLNIYNLYAPCAGGV
 PGRHRYEDTLVVQDFGNIFTRLPLKRRFPEALMRSGDKVRLDPPCTNTTAPSNYLNPNPYVRKALHIPESL
 PRWDMCNFLVNLQYRRLYQSMNSQYLKLLSSQYQILLYNGDVMACNFMGDEWFVDSLNLQKMEVQRRPW
 LVDYWESGEQVAGFVKECSHITFLTIKAGHMVPTDKPRAAFTMFSRFLNKEPY

TRTRPLEQ**KL**I**SEEDLA**AND**ILDYK**DDDD**KV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001038492

ORF Size: 1425 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](#), [NM_001038492.2](#), [NP_001033581.1](#)
RefSeq Size: 3548 bp

RefSeq ORF: 1425 bp

Locus ID: 19025

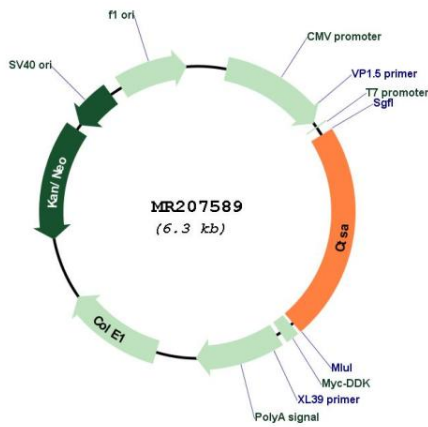
UniProt ID: [P16675](#)

Cytogenetics: 2 85.27 cM

MW: 54 kDa

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]

Product images:



Circular map for MR207589