

Product datasheet for **MR220402**

Ctsa (NM_008906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsa (NM_008906) 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:

>MR220402 representing NM_008906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTCCAGTCCAAGGCGCCTCTGGAGAGCAAGGACGCAAGGAAGCAGAGATGCCCGAACCGCGC
 TGCTCCACTGCTTGTGGTCTCTGTCTGGGCGTCCCGAACGAAGCAGCTCCGGACCAGGATGA
 AATCGATTGTCTCCCGCCTGGCCAAGCAGCCCTCTTCCGGCAATACTCCGGTACTCTCAGAGATCG
 GACTCCAAGCACTTCCACTACTGGTTTGTGGAGTCGACAGAACGCCAAAGAAGCAGCCCGTGGTCTTT
 GGCTTAACGGGGTCCCGCTGCAGCTCGCTCGATGGGCTGTTACAGAGCACGGCCCTTTCTGATCCA
 GCCAGATGGTGTACCCTGGAGTACAACCCTATGCTTGGAACTGATTGCCAACGTGCTGTATATCGAG
 TCCCCAGCTGGGTGGGCTTCTCTACTCGGATGACAAGATGTACGTGACCAATGACACAGAGGTGGCGG
 AGAACAAATATGAAGCCCTAAAGACTTCTTCCGCCTCTTCCGGAATACAAGGACAACAACTTTCTCT
 GACAGGAGAGAGCTATGTGGCATCTACATCCCCACCTTGGCTGTACTGGTCATGCAGGATCCTAGCATG
 AATCTTACAGGGCTGGCTGTGGCAATGGACTTGCTCCTATGAGCAGAACGACAACCTCCCTGGTCTACT
 TTGGCTACTACCATGGCCTTCTGGGGAACAGACTTTGGACTTCACTGCAGACCCACTGCTGCGCTCAGAA
 CAAGTGTAACTTCTATGACAACAAAGACCCAGAGTGTGTAACAATCTCCTGGAAGTGTCTCGAATTGTG
 GGCAAACTGGCCTCAACATCTACAATCTATGCTCCGTGTGCTGGTGGGGTCCCGGCAGACATAGAT
 ATGAGGACACACTTGTAGTCCAGGATTTGGCAACATCTCACTCGCCTGCCACTTAAGCGGAGATTTCC
 TGAGGCACTGATGCGTTCGGGACAAGGTACGCTTGGATCCTCCCTGCACCAACACCACAGCCCTTCC
 AACTACCTCAACAACCCCTATGTTCCGAAGCTCTCCACATCCCCGAGTCGCTGCCCGCTGGGACATGT
 GCAACTTCTGGTGAATTTACAGTACCGCCGCTCTACCAAGCATGAACTCCAGTACCTGAAGCTGCT
 CAGTTTACAGAAAATACCAGATCCTGCTCTACAACGGAGATGTGGACATGGCCTGCAACTTATGGGCGAT
 GAGTGGTTTGTGATTTCGCTCAACCAGAAGATGGAGGTGCAGCGCCGCCCTGGTAGTGGACTACGGGG
 AGAGCGGAGAACAGGTAGCTGGTTTCGTAAGGAGTGTTCACACATCACCTTCTCACCATCAAGGGTGC
 CGGACACATGGTCCCCACGGACAAGCCTCGAGCTGCTTTTACCATGTTCTCGAGGTTCTGAACAAAGAG
 CCTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220402 representing NM_008906
 Red=Cloning site Green=Tags(s)

MTSSPKAPPGEQGRKEAEMPGTALSPLLLLLLLSWASRNEAAPDQDEIDCLPGLAKQPSFRQYSGYLRAS
 DSKHFHYWFVESQNDPKNSPVVWLNGGPGCSSLDGLLTEHGPFLLIQPDGVTLTYNPNYAWNLIANVLYIE
 SPAGVGFYSDDKMYVTNDTEVAENNYEALKDFRLLFPEYKDNKFLFTGESYAGIYIPTLAVLVMQDPSM
 NLQGLAVGNGLASYEQNDNSLVYFAYYHGLLGNRLWTSLQTHCCAQNKC�FYDNKDPECVNNLLEVSRIV
 GKSGLNINLYAPCAGGVPGRHRYEDTLVVQDFGNIFTRLPLKRRFPEALMRSGDKVRLDPPCTNTTAPS
 NYLNNPYVRKALHIPESLPRWDMCNFLVNLQYRRLYQSMNSQYLKLLSSQKYQILLYNGDVDMACNFMGD
 EWFVDSLNLQKMEVQRRPWLVDYGESGEQVAGFVKECSHITFLTIKAGHMVPTDKPRAAFTMFSRFLNKE
 PY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008906

ORF Size: 1476 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

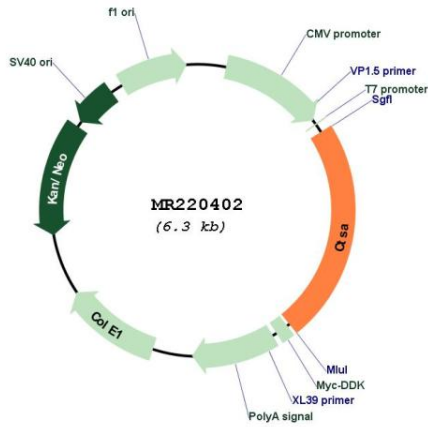
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_008906.4, NP_032932.2](#)

RefSeq Size: 3674 bp
 RefSeq ORF: 1479 bp
 Locus ID: 19025
 Cytogenetics: 2 85.27 cM
 MW: 56.2 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 MR220402