

Product datasheet for **MG225301**

Ctsd (NM_009983) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ctsd (NM_009983) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ctsd |
| Synonyms: | CatD; CD |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG225301 representing NM_009983 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGACTCCCGCGTCTTGCTGCTCATTCTCGGCTCCTGGCTTCGTCCCTTCGCGATTATCAGAA
TCCCTCTGCGCAAGTTCACATCTATCCGTCGGACTATGACGGAGGTGGCGGCTCTGTGGAAGACCTGAT
CCTCAAAGGCCCATCACCAAGTACTCCATGCAGTCATCGCTAAGACCACGGAGCCAGTGTGAGAGTTA
CTCAAAAACACTACCTGGATGCCAGTACTATGGCGATATCGGCATCGGAACCCCGCCGAGTGTTCACAG
TCGTCTTTGATACTGGCTCCTTAACCTGTGGTCCCCTCCATTCATTGCAAGATACTTGACATAGCCTG
CTGGGTCCACCATAAGTACAACAGTGACAAGTCCAGCACCTATGTGAAGAACGGCACGTCCTTTGACATC
CACTACGGCTCAGGAAGCCTCTCTGGGTACCTGAGCCAGGACACTGTATCGGTTCCATGTAAAGTCTGACC
AGTCAAAGGCAAGAGGTATCAAGGTGGAGAAACAGATCTTTGGAGAAGCCACCAAGCAGCCTGGAATCGT
ATTTGTTGAGCCAAGTTTGATGGCATCTTGGGCATGGGCTACCCCTCATATCTCTGTTAAACAACGTGCTT
CCGGTCTTTGACAACCTGATGCAACAGAAGCTGGTGGACAAGAACATCTTCTCCTTCTACCTGAACAGGG
ACCCAGAAGGGCAACCCGGAGGAGAATAATGCTTGGTGGCACTGACTCCAAGTACTACCACGGGGAGCT
GTCCTACCTGAACGTCACTCGAAAGCCCTACTGGCAGGTGCACATGGACCAGTTGGAGGTGGGCAATGAG
CTGACCCTGTGCAAGGGAGGCTGTGAGGCTATTGTGGACACAGGACATCTTCTGGTGGGCGCTGTGG
AAGAGGTGAAGGAGCTGCAGAAGGCCATCGGGGAGTGCCTCTTATCCAGGGTGAATATGATTCCTTG
TGAGAAGGTGTCCAGCCTGCCACGGTCTACCTGAAGCTAGGAGGCAAAAACATGAACACACCCAGAC
AAGTATACTCAAGGTATCGCAGGGTGGAAAGACAATCTGCCTGAGTGGCTTCATGGGAATGGACATAC
CCCCTCCAGTGGGCGCTCTGGATCCTGGGCGATGTCTTCATTGGTTCTACTACACTGTGTTTGACAG
AGACAACAATAGGGTCGGCTTTGCCAATGCTGTCGTAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225301 representing NM_009983
 Red=Cloning site Green=Tags(s)

MKTPGVLLLILGLLASSFAIIRIPLRKFTSIRRTMTEVGGSVEDLILKGPITKYSMQSSPKTTEPVSEL
 LKNYLDAQYYGDIGIGTPPQCFTVVFDTGSSNLWVPSIHCKILDIACVHHKYNDSKSSYVKNGTSFDI
 HYGSGSLSGYLSQDTSVVPCKSDQSKARGIKVEKQIFGEATKQPGIVFVAAKFDGILGMGYPHISVNNVL
 PVFDNLMQQKLVDKNIFSFYLNRPDPEGQPGGELMLGGTDSKYHGGELSYLNVTRKAYWQVHMDQLEVGNE
 LTLCKGGCEAIVDTGTSLLVGPVEEVKELQKAIGAVPLIQGEYMIPEKVVSSLPTVYVYKLGKKNYELHPD
 KYILKVSQGGKTIKLSGFMGMDIPPPSGPLWILGDVFIGSYTTFDRDNNRVGFANAVVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009983

ORF Size: 1230 bp

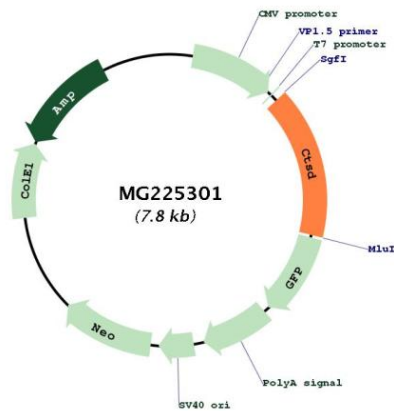
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_009983.3](#)
- RefSeq Size:** 1979 bp
- RefSeq ORF:** 1233 bp
- Locus ID:** 13033
- UniProt ID:** [P18242](#)
- Cytogenetics:** 7 F5
- Gene Summary:** Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225301