

## Product datasheet for MR225301

### Ctsd (NM\_009983) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsd (NM_009983) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsd
Synonyms:	CatD; CD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225301 representing NM_009983 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAGACTCCCGCGTCTTGCTGCTCATTCTCGGCTCCTGGCTTCGTCCCTTCGCGATTATCAGAA  
TCCCTCTGCGCAAGTTCACATCTATCCGTCGGACTATGACGGAGGTGGCGGCTCTGTGGAAGACCTGAT  
CCTCAAAGGCCCATACCAAGTACTCCATGCAGTCATCGCTAAGACCACGGAGCCAGTGTGAGAGTTA  
CTCAAAAACACTACCTGGATGCCAGTACTATGGCGATATCGGCATCGGAACCCCGCCGAGTGTTCACAG  
TCGTCTTTGATACTGGCTCCTTAACCTGTGGTCCCCTCCATTCATTGCAAGATACTTGACATAGCCTG  
CTGGGTCCACCATAAGTACAACAGTGACAAGTCCAGCACCTATGTGAAGAACGGCAGTCCCTTTGACATC  
CACTACGGCTCAGGAAGCCTCTCTGGGTACCTGAGCCAGGACACTGTATCGGTTCCATGTAAAGTCTGACC  
AGTCAAAGGCAAGAGGTATCAAGGTGGAGAAACAGATCTTTGGAGAAGCCACCAAGCAGCCTGGAATCGT  
ATTTGTTGAGCCAAGTTTGTGGCATCTTGGGCATGGGCTACCCCTCATATCTCTGTTAAACAACGTGCTT  
CCGGTCTTTGACAACCTGATGCAACAGAAGCTGGTGGACAAGAACATCTTCTCCTTCTACCTGAACAGGG  
ACCCAGAAGGGCAACCCGGAGGAGAATAATGCTTGGTGGCACTGACTCCAAGTACTACCACGGGGAGCT  
GTCCTACCTGAACGTCACCTCGAAAGGCCTACTGGCAGGTGCACATGGACCAGTTGGAGGTGGGCAATGAG  
CTGACCCTGTGCAAGGGAGGCTGTGAGGCTATTGTGGACACAGGACATCTTCTGGTGGGCGCTGTGG  
AAGAGGTGAAGGAGCTGCAAGAGCCATCGGGGAGTGCCTCTTATCCAGGGTGAATATGATTCTCTTG  
TGAGAAGGTGTCCAGCCTGCCACGGTCTACCTGAAGCTAGGAGGCAAAAACATGAACACACCCAGAC  
AAGTATACTCAAGGTATCGCAGGGTGGAAAGACAATCTGCCTGAGTGGCTTCATGGGAATGGACATAC  
CCCCTCCAGTGGGCGCTCTGGATCCTGGGCGATGTCTTCATTGGTTCTACTACACTGTGTTTGACAG  
AGACAACAATAGGGTCGGCTTTGCCAATGCTGTCGTAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR225301 representing NM\_009983  
Red=Cloning site Green=Tags(s)

MKTPGVLLLILGLLASSFAIIRIPLRKFTSIRRTMTEVGGSVEDLILKGPITKYSMQSSPKTTEPVSEL  
 LKNYLDAQYYGDIGIGTPPQCFTVVFDTGSSNLWVPSIHCKILDIACVHHKYNDSKSSYVKNGTSFDI  
 HYGSGSLSGYLSQDTVSVPCSKDQSKARGIKVEKQIFGEATKQPGIVFVAAKFDGILGMGYPHISVNNVL  
 PVFDNLMQQKLVKDNIFSFYLNRPDPEGQPGGELMLGGTDSKYHGMELSYLNVTRKAYWQVHMDQLEVGNE  
 LTLCKGGCEAIVDTGTSLLVGPVEEVKELQKAIGAVPLIQGEYMIPEKVVSSLPTVYLKLGKKNYELHPD  
 KYILKVSQGGKTIICLSGFMGMDIPPPSGPLWILGDVFIGSYTYVDFDRDNNRVGFANAVVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_f04.zip](https://cdn.origene.com/chromatograms/mm9033_f04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009983

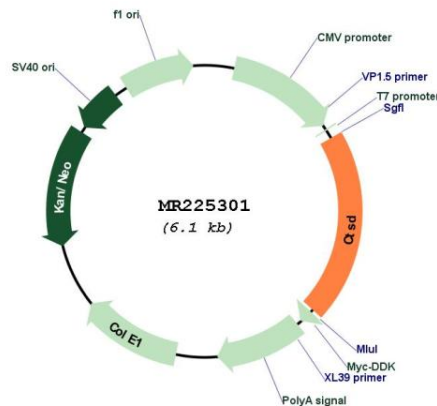
**ORF Size:** 1230 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_009983.3</a></u>
<b>RefSeq Size:</b>	1979 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	13033
<b>UniProt ID:</b>	<u><a href="#">P18242</a></u>
<b>Cytogenetics:</b>	7 F5
<b>MW:</b>	45.4 kDa
<b>Gene Summary:</b>	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 MR225301