

## Product datasheet for **MR218660**

### Csad (NM\_144942) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Csad (NM_144942) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csad
Synonyms:	Csd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR218660 representing NM\_144942  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGACTCAAACCCTCAGGACCCTGGATGGGGACCCCGTGGCTGTGGAGGCCTTGCTCCAGGACG  
 TGTTTGGATTGTTGTAGATGAGGCCATTCTGAAGGGGACCAGTGCCTCTGAGAAGTCTGCGAATGGAA  
 GGAGCCTGAAGAAGCTCAAGCAGCTGCTGGACTTGAGCTGCAGAGCCAGGGCGAGTCCCGGAGCAGATC  
 CTGGAGCGCTGCCGACTGTGATCACTACAGTGTCAAGACTGGTCACCCCGGTTCTTCAACCAGCTCT  
 TCTCAGGGTTAGATCCCATGCTCTGGCTGGGCGCATCATCACGGAGAGCCTCAACACTAGCCAGTACAC  
 ATATGAGATTGCCCCGTGTTTGTGCTCATGGAAGAGGAGGTGCTGAAGAACTCCGTGCCCTGGTGGGC  
 TGGAACTCTGGGGATGGGTCTTCTGCTGCTGGTGGCTCCATCTCCAACATGTACGCCATGAACCTGGCCC  
 GCTTTCAGCGCTACCCAGACTGCAAGCAGAGGGGCTCCGGGCCCTGCCGCCCTGGCTCTTCACTTC  
 AAAGGAGTGTCACTACTCCATCACAAGGGAGCTGCTTTTCTGGGACTTGGCACCACAGTGTCCGAGTG  
 GTCAAGGCTGATGAGAGAGGGAGGATGATCCCTGAGGACCTGGAGAGGCAGATCATTCTGGCAGAGGCTG  
 AGGGCTCTGTGCCATTTCTGGTCACTGACCCTCTGGTACCACCGTGTAGGGGCCTTTGACCCCTGGA  
 TGCAATTGCCGATGTTTCCAGCGACACGGACTGTGGTCCATGTGGATGCTGCCTGGGGTGGGAGCGTC  
 CTGCTGTCTCGGACACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGCCTGGAACCCCTC  
 ACAAGTCTCTCGCCGACGGGCTGCAGTGTCCGCTCTTCTTCCGGGACACCTCGAACCTGCTCAAGCG  
 CTGCCATGGATCCAGGCCAGCTACCTCTCCAGCAAGACAAGTCTACGATGTGGCTCTGGACACCGGA  
 GACAAAGTGGTGCAGTGTGGCCCGCGCTGGACTGTCTGAAGCTATGGCTCATGTGAAGGCACAGGGTG  
 GCGGGAAGGATTTGAGTTGGTAATGGAGCCCGAGTTCGTCACCGTGTGCTTCTGGTTTGTGCTCCAGC  
 CTTCCGGGGGAAGAAGGAGTCCAGATTACAGCCAAAGGCTGTCTCAGGTGGCCCTGTGCTCAAGGAGC  
 GCATGGTGAAGAAGGGACCATGATGATTGGTACCAGCCCATGGGACCCGGGCAACTTCTTCCGAAT  
 GGTGGTGGCAACCCATACTGGCCAGGCCGATATAGATTTCTTCTGGCGAGCTGGAGCTCCTGGGC  
 CAGGACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218660 representing NM\_144942  
 Red=Cloning site Green=Tags(s)

MADSKPLRTLGDGPVAVEALLQDVFVIVDEAILKGTSASEKVCWEKEPEELKQLLDLELQSQGESREQI  
 LERCRTVIHYSVKTGHPRFFNQLFSGLDPHALAGRIITESLNTSQTYYEIAPVFVLMEEVLLKLRALVG  
 WNSGDGVFCPGGSI SNMYAMNLARFQRYPDCKQRGLRALPPLALFTSKECHYSITKGA AFLGLGTD SVRV  
 VKADERGRMIPEDLERQIILAEAEGSVPFLVSATSGTTVLGAFDPLDAIADVCQRHGLWFHVDAAWGGSV  
 LLSRTHRLLDGIQRADSVAWNPHKLLAAGLQCSALLLRDTSNLLKRCHGSQASYLFQQDKFYDVALDTG  
 DKVVQCGRRVDCLKLWLMWKAQGGQGLERRIDQAFALTRYLVEEIKKREGFELVMEPEFVNVCFWFVPPS  
 LRGKKEPDYSQRLSQVAPVLKERMVKGMMIGYQPHGTRANFFRMVVANPILAQAADIDFLLELELLG  
 QDL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9065\\_f03.zip](https://cdn.origene.com/chromatograms/mm9065_f03.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_144942

ORF Size: 1479 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\\_144942.4](#), [NP\\_659191.1](#)

RefSeq Size: 2265 bp

RefSeq ORF: 1482 bp

Locus ID: 246277

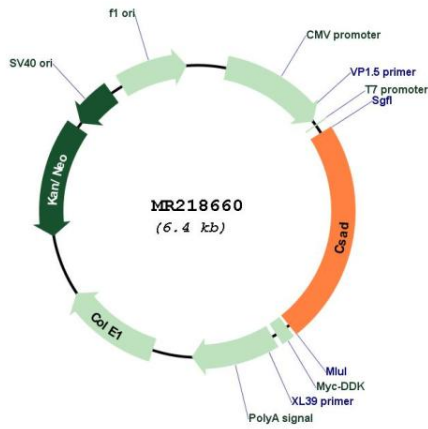
UniProt ID: [Q9DBE0](#)

Cytogenetics: 15 F2

**MW:** 55.1 kDa

**Gene Summary:** Catalyzes the decarboxylation of L-aspartate, 3-sulfinio-L-alanine (cysteine sulfinic acid), and L-cysteate to beta-alanine, hypotaurine and taurine, respectively. The preferred substrate is 3-sulfinio-L-alanine. Does not exhibit any decarboxylation activity toward glutamate. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218660