

Product datasheet for **MG218660**

Csad (NM_144942) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csad (NM_144942) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Csad
Synonyms:	Csd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218660 representing NM_144942
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGACTCAAACCCTCAGGACCCTGGATGGGGACCCCGTGGCTGTGGAGGCCTTGCTCCAGGACG
 TGTTTGGATTGTTGTAGATGAGGCCATTCTGAAGGGGACCAGTGCCTCTGAGAAGTCTGCGAATGGAA
 GGAGCCTGAAGAACTCAAGCAGCTGCTGGACTTGAGCTGCAGAGCCAGGGCAGTCCCGGGAGCAGATC
 CTGGAGCGCTGCCGACTGTGATCACTACAGTGTCAAGACTGGTCACCCCGGTTCTTCAACCAGCTCT
 TCTCAGGGTTAGATCCCATGCTCTGGCTGGGCGCATCATCACGGAGAGCCTCAACACTAGCCAGTACAC
 ATATGAGATTGCCCCGTGTTTGTGCTCATGGAAGAGGAGGTGCTGAAGAACTCCGTGCCCTGGTGGGC
 TGGAACTCTGGGGATGGGTCTTCTGCTCTGGTGGCTCCATCTCCAACATGTACGCCATGAACCTGGCCC
 GCTTTCAGCGCTACCCAGACTGCAAGCAGAGGGGCTCCGGGCCCTGCCGCCCTGGCTCTTCACTTC
 AAAGGAGTGTCACTACTCCATCACAAGGGAGCTGCTTTTCTGGGACTTGGCACCACAGTGTCCGAGTG
 GTCAAGGCTGATGAGAGAGGGAGGATGATCCCTGAGGACCTGGAGAGGCAGATCATTCTGGCAGAGGCTG
 AGGGCTCTGTGCCATTTCTGGTCACTGACCCTCTGGTACCACCGTGTAGGGGCCTTTGACCCCTGGA
 TGCAATTGCCGATGTTTGCCAGCGACACGGACTGTGGTCCATGTGGATGCTGCCTGGGGTGGGAGCGTC
 CTGCTGTCTCGGACACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGCCTGGAACCTC
 ACAAGTCTCTCGCCGACAGGGCTGCAGTGTCCGCTCTTCTTCCGGGACACCTCGAACCTGCTCAAGCG
 CTGCCATGGATCCCAGGCCAGCTACCTCTCCAGCAAGACAAGTTCTACGATGTGGCTCTGGACACCGGA
 GACAAAGTGGTGCAGTGTGGCCCGCGCTGGACTGTCTGAAGCTATGGCTCATGTGAAGGCACAGGGTG
 GCGAGGGTTGGAGCGGCATCGACCAGGCCTTGTCTCACCCGGTACTTGGTGGAGAGATTAATAA
 GCGGGAAGGATTTGAGTTGGTAATGGAGCCCGAGTTCGTCAACGTGTGCTTCTGGTTTGTGCTCCAGC
 CTTCCGGGGAAGAAGGAGAGTCCAGATTACAGCCAAAGGCTGTCTCAGGTGGCCCTGTGCTCAAGGAGC
 GCATGGTGAAGAAGGGACCATGATGATTGGTACCAGCCCATGGGACCCGGGCAACTTCTTCCGAAT
 GGTGGTGGCAACCCATACTGGCCAGGCCGATATAGATTTCTTCTGGCGAGCTGGAGCTCCTGGGC
 CAGGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218660 representing NM_144942
 Red=Cloning site Green=Tags(s)

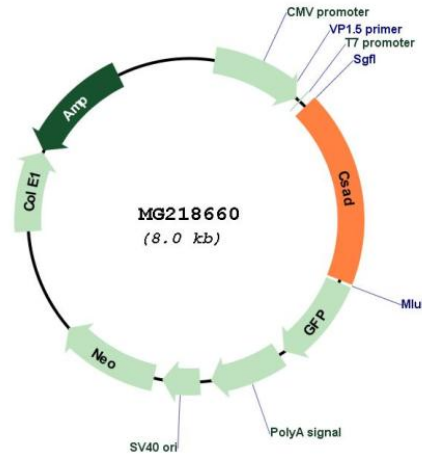
MADSKPLRTLGDGPVAVEALLQDVFIVVDEAILKGTSASEKVCEWKEPEELKQLLDLELQSQGESREQI
 LERCRTVIHYSVKTGHPFFNQLFSGLDPHALAGRITTESLNTSQYTYE IAPVFLMEEV LKLRALVG
 WNSGDGVFCPGGSI SNMYAMN LARFQRYPDCKQRGLRALPPLALFTSKECHYSITKGAFLGLGTD SVRV
 VKADERGRMIPEDLERQIILAEAE GSV PFLVSATSGTTVLGAFDPLDAIADVCQRHGLWFHVDAAWGGSV
 LLSRTHRHLLDGIQRADSVAWNPHKLLAAGLQCSALLLRDTSNLLKRCHGSQASYLFQQDKFYDVALDTG
 DKVVQCGRRVDCLKLWLMWKAQGGQGLERRIDQAFALTRYLVEEIKKREGFELVMEPEFVNVCFWFVPPS
 LRKKESPDSYQRLSQVAPVLKERMVKGMMIGYQPHGTRANFFRMVVANPILAQADIDFLLGELELLG
 QDL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



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

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]