

## Product datasheet for **RR200329**

### **Csad (NM\_021750) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Csad (NM_021750) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csad
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200329 representing NM\_021750  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGACTCAAACCCTCAGAACCCTGGATGGGGACCCTGTGGCTGTGGAGCCTTGTCTCCGGGACG  
 TGTTTGGATTGTCGTAGATGAGGCCATTCGGAAGGGGACCAATGCCTCTGAGAAGTCTGCGAATGGAA  
 GGAGCCTGAAGAGCTCAAGCAGCTGCTGGACTTGAGCTGCAGAGCCAGGGCAGTCTAGGGAGCGGATC  
 CTGGAGCGCTGCCGGCTGTGATTACATTACAGTGTCAAGACTGGTCACCCCGGTTCTTCAACCAGCTCT  
 TCTCAGGATTAGATCCCCATGCTCTGGCCGGGCGCATCATTACGGAGAGCCTCAATACCAGCCAGTACAC  
 ATATGAGATTGCCCCGTGTTTGTGCTCATGGAAGAGGAGGTGCTGAAGAACTCCGTGCCCTTGTGGGC  
 TGGAACTGAGGATGGGTCTTCTGCTGCTGGTCCATCTAACATGTACGCCATAAACCTGGCCC  
 GCTTTCAGCGCTACCCAGACTGCAAGCAGAGGGGCTCCGGGCCCTGCCACCCTTGGCCCTTTCACCTC  
 AAAGGAGTGCCACTACTCCATCACAAGGGAGCTGCTTTTCTGGGACTTGGCACCAGAGTCCGAGTG  
 GTC AAGGCTGATGAGAGAGGGAAGATGATCCCTGAGGATCTGGAGAGGCAGATCAGTCTGGCAGAGGCTG  
 AGGGCTCGGTGCCATTTCTGGTCACTGCCACCTCTGGTACCACCGTGTAGGGGCCCTTGGACCCCTGGA  
 TGCAATTGCCGATGTTTCCAGCGTCACGGGCTGTGGTTACACGTGGATGCCGCTGGGGTGGGAGCGTC  
 CTGCTGTCCCGGACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCCGTGGCCTGGAACCCTC  
 ACAAGTCTTCCGCGCGGGGCTGCAGTGTCTGCTCTTCTTCCGGGACACCTCGAACCTGCTCAAGCG  
 CTGCCACGGTCCCAGGCCAGCTACCTCTCCAGCAAGACAAGTCTACAACGTGGCTCTGGACACCGGA  
 GACAAGGTGGTGCAGTGTGGCCCGCGCTGGACTGTCTGAAGCTGTGGCTCATGTGAAGGCGCAGGGTG  
 GGCAAGGCTGGAGTGGCGCATCGACAGGCTTTGCTCTACTCGGTACTTGGTGGAGGAGATAAAAA  
 CGGGGAAGGATTTGAGTTGGTCAATGGAGCCGAGTTCGTC AACGTGTGCTTCTGGTTTGTGCTCCAGC  
 CTGCGGGGAAGAAGGAGAGCCAGATTACAGCCAGAGGCTGTCTCAGGTGGCCCTGTGCTCAAGGAGC  
 GCATGGTGAAGAAGGGAACCATGATGATCGGCTACCAGCCCCATGGGACCCGGGCAACTTCTCCGAAT  
 GGTGGTGGCAACCCATACTGGTCCAGGCCGATATAGACTTCTTCTGGCGAGCTGGAGCGTCTGGGC  
 CAGGACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200329 representing NM\_021750  
 Red=Cloning site Green=Tags(s)

MADSKPLRRLDGDVPVAVEALLRDVFGIVVDEAIRKGTNASEKVCEWKEPEELKQLLDLELQSQGESRERI  
 LERCRAVIHYSVKTGHPFRFFNQLFSGLDPHALAGRIITESLNTSQYTYEIAVPFVLMEEV LKLRALVG  
 WNTGDGVFCPPGSI SNMYA INLARFQRYPDCKQRGLRALPPLALFTSKECHYSITKGA AFLGLGTD SVRV  
 VKADERGKMIPEDLERQISLAEAGSV PFLVSATSGTTVLGAFDPLDAIADVCQRHGLWLHVDAAWGGSV  
 LLSRTHRHLLDGIQRADSVAWNPHKLLAAGLQCSALLLRDTSNLLKRCHGSQASYLFQQDKFY NVALDTG  
 DKVVQCGR RVDCLKLWLMWKAQGGQGLEWRIDQAFALTRYLVEEIKKREGFELVMEPEFVNVC FWFVPPS  
 LRGKKE SPDYSQRLSQVAPVLKERMVKG TMMIGYQPHGTRANFFRMVVANPILVQADIDFLLGELERLG  
 QDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

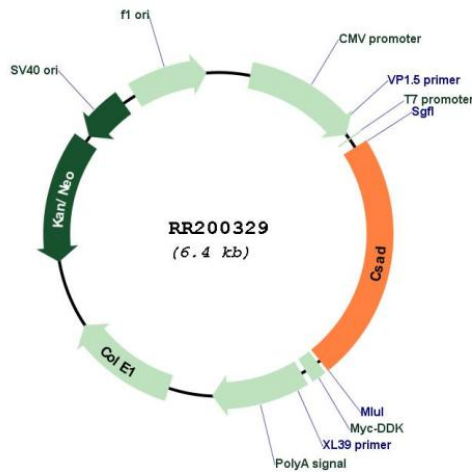
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_021750

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\\_021750.2](#), [NP\\_068518.1](#)

**RefSeq Size:** 2062 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 60356

**UniProt ID:** [Q64611](#)

**Cytogenetics:** 7q36

**MW:** 55.2 kDa

**Gene Summary:** catalyzes the conversion of 3-sulfino-L-alanine to hypotaurine in taurine biosynthesis [RGD, Feb 2006]