

## Product datasheet for **RC232313**

### CSAD (NM\_001244706) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CSAD (NM\_001244706) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CSAD  
**Synonyms:** CSD; PCAP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232313 representing NM\_001244706  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTGCTGTGCCGTTCTGGTCAGTGCCACCTCTGGCACCCTGTGCTAGGGGCCTTTGACCCCTGG  
AGGCAATTGCTGATGTGTGCCAGCGTCATGGGCTATGGCTGCATGTGGATGCTGCCTGGGTGGGAGCGT  
CCTGCTGTACAGACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGCCTGGAATCCC  
CACAAGCTCCTCGCAGCAGGCCTGCAATGCTCTGCACTTCTTCTCCAGGATACCTCGAACCTGCTCAAGC  
GCTGCCATGGGTCCCAGGCCAGCTACCTTTTCCAGCAGGACAAGTTCTACGATGTGGCTCTGGACACGGG  
AGACAAGGTGGTGCAGTGTGGCCGCGTGTGGACTGTCTGAAGCTGTGGCTCATGTGGAAGGCACAGGGC  
GATCAAGGGCTGGAGCGGCATCGACCAGGCCTTTGTCCTTGCCCGGTACCTGGTGGAGGAAATGAAGA  
AGCGGGAAGGGTTTGAGCTAGTCATGGAGCCTGAGTTTGTCAATGTGTGTTTCTGGTTCGTACCCCCAG  
CCTGCGAGGGAAGCAGGAGATCCAGATTACCACGAAAGGCTGTCAAAGGTGGCCCCGCTGCTCAAGGAG  
CGCATGGTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCCCAGGGACCCGGGCAACTTCTTCCGTG  
TGGTTGTGGCCAACCTCTGCACTGACCTGTGCTGATATGGACTTCTCTCAACGAGCTGGAGCGGCTAGG  
CCAGGACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232313 representing NM\_001244706  
 Red=Cloning site Green=Tags(s)

MGAVPFLVSATSGTTVLGAFDPLEAIADVCQRHGLWLHVDAAWGGSVLLSQTHRHLLDGIQRADSVAWNP  
 HKLLAAGLQCSALLLQDTSNLLKRCHGSQASYLFQQDKFYDVALDTGDKVVQCGRRVDCCLKLWLMWKAQG  
 DQGLERRIDQAFVLARYLVEEMKKREGFELVMEPEFVNVCFFWFPPSLRGKQESP DYHERLSKVAPVLKE  
 RMVKEGSMIMIGYQPHGTRGNFFRVVVANSALTCADMDFLNLERLQGDL

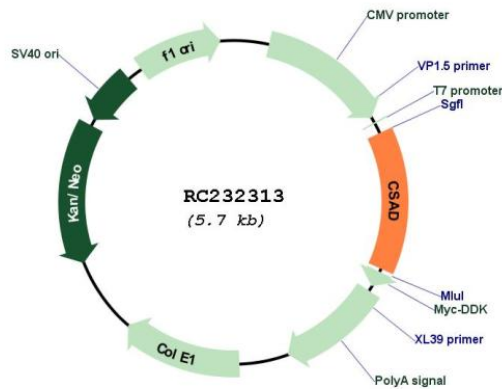
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001244706  
 ORF Size: 780 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001244706.1</a> , <a href="#">NP_001231635.1</a>
<b>RefSeq Size:</b>	1757 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	51380
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Taurine and hypotaurine metabolism
<b>MW:</b>	29.7 kDa
<b>Gene Summary:</b>	This gene encodes a member of the group 2 decarboxylase family. A similar protein in rodents plays a role in multiple biological processes as the rate-limiting enzyme in taurine biosynthesis, catalyzing the decarboxylation of cysteinesulfinate to hypotaurine. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]