

## Product datasheet for **SC330220**

### CSAD (NM\_001244706) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CSAD (NM\_001244706) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CSAD  
**Synonyms:** CSD; PCAP  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330220 representing NM\_001244706.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

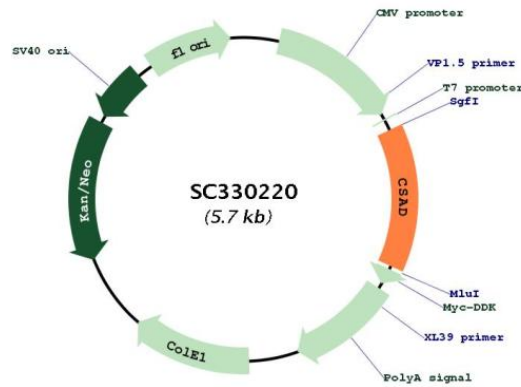
```
ATGGGTGCTGTGCCGTTCTGGTCAGTGCCACCTCTGGCACCCTGTGCTAGGGGCTTTGACCCCTG
GAGGCAATTGCTGATGTGTGCCAGCGTCATGGGCTATGGCTGCATGTGGATGCTGCCTGGGGTGGGAGC
GTCCTGCTGTACAGACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGCCTGGAAT
CCCCACAAGCTCCTCGCAGCAGGCCTGCAATGCTCTGCACTTCTTCTCCAGGATACCTCGAACCTGCTC
AAGCGCTGCCATGGGTCCAGGCCAGCTACCTTTCCAGCAGGACAAGTTCTACGATGTGGCTCTGGAC
ACGGGAGACAAGGTGGTGCAGTGTGGCCCGGTGTGGACTGTCTGAAGCTGTGGCTCATGTGAAGGCA
CAGGGCGATCAAGGGCTGGAGCGGCGCATCGACCAGGCCTTTGTCCTTGCCCGGTACCTGGTGGAGGAA
ATGAAGAAGCGGGAAGGGTTTGAGCTAGTCATGGAGCCTGAGTTTGTCAATGTGTGTTTCTGTTTCGTA
CCCCCAGCCTGCGAGGGAAGCAGGAGAGTCCAGATTACCACGAAAGGCTGTCAAAGGTGGCCCCCGTG
CTCAAGGAGCGCATGGTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCCCACGGGACCCGGGGCAAC
TTCTTCCGTGTGGTTGTGGCCAACTCTGCACTGACCTGTGCTGATATGGACTTCTCCTCAACGAGCTG
GAGCGGCTAGGCCAGGACCTGTGA
```

**Restriction Sites:** SgfI-MluI



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Plasmid Map:



**ACCN:** NM\_001244706

**Insert Size:** 783 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001244706.1](#)

**RefSeq Size:** 1757 bp

**RefSeq ORF:** 783 bp

**Locus ID:** 51380

**Cytogenetics:** 12q13.13

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Taurine and hypotaurine metabolism

**MW:** 29.2 kDa

**Gene Summary:** 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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a large portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1.