

Product datasheet for **RG234277**

CSAD (NM_001244705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSAD (NM_001244705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSAD
Synonyms:	CSD; PCAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234277 representing NM_001244705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGACTCAGAAGCACTCCCCTCCCTTGCTGGGGACCCAGTGGCTGTGGAAGCCTTGCTCCGGGCCG
 TGTTTGGGGTTGTTGTGGATGAGGCCATTAGAAAGGAACCAAGTGTCTCCAGAAGGTCTGTGAGTGGAA
 GGAGCCTGAGGAGCTGAAGCAGCTGCTGGATTTGGAGCTGCGGAGCCAGGGCAGTACACAGAAGCAGATC
 CTGGAGCGGTGTCGGGCTGTGATTTCGCTACAGTGTCAAGACTGGTCACCCCTCGGTTCTTCAACCAGCTCT
 TCTCTGGGTTGGATCCCCATGCTCTGGCCGGGCGCATTACTACTGAGAGCCTCAACACCAGCCAGTACAC
 ATATGAAATCGCCCCGTGTTTGTGCTCATGGAAGAGGAGGTGCTGAGGAACTGCGGGCCCTGGTGGGC
 TGGAGCTCTGGGACGGAATCTTCTGCCCTGGTGGCTCCATCTCCAACATGTATGCTGTAATCTGGCCC
 GCTATCAGCGCTACCCGGATTGCAAGCAGAGGGGCTCCGCACACTGCCGCCCTGGCCCTATTCACATC
 GAAGGAGTGTCACTACTCCATCCAGAAGGGAGCTGCGTTTCTGGGACTTGGCACCACAGTGTCCGAGTG
 GTCAAGGCTGATGAGAGAGGAAAATGGTCCCGAGGATCTGGAGAGGCAGATTGGTATGGCCGAGGCTG
 AGGGTGTGTGCCGTTCCCTGGTCACTGCCACCTCTGGCACCAGTGTGCTAGGGGCCCTTGACCCCTGGA
 GGCAATTGCTGATGTGTGCCAGCGTATGGGCTATGGCTGCATGTGGATGCTGCCTGGGGTGGGAGCGTC
 CTGCTGTACAGACACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGCCTGGAATCCCC
 ACAAGCTCCTCGCAGCAGGCCTGCAATGCTCTGCACCTTCTTCCAGGATACCTCGAACCTGCTCAAGCG
 CTGCCATGGGTCCCAGGCCAGCTACCTTTCCAGCAGGACAAGTCTACGATGTGGCTCTGGACACGGGA
 GACAAGGTGGTGCAGTGTGGCCCGCTGTGGACTGTCTGAAGCTGTGGCTCATGTGGAAGGCACAGGGCG
 ATCAAGGCTGGAGCGGCATCGACAGGCCTTTGCTTCCCGGTACCTGGTGGAGAAATGAAGAA
 GCGGGAAGGGTTTGAGCTAGTCATGGAGCCTGAGTTTGTCAATGTGTGTTTCTGGTTCGTACCCCCAGC
 CTGCGAGGGAAGCAGGAGTCCAGATTACCACGAAAGGCTGTCAAGGTGGCCCCGCTGCTCAAGGAGC
 GCATGGTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCCCACGGGACCCGGGGCAACTTCTTCCGTGT
 GTTTGTGGCCAACTCTGCACTGACCTGTGCTGATGACTTCTCCTCAACGAGCTGGAGCGGCTAGGC
 CAGGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234277 representing NM_001244705
 Red=Cloning site Green=Tags(s)

MADSEALPSLAGDPVAVEALLRAVFGVVVDEAIQKGTSVSQVCEWKEPEELKQLLDLELRISQGESQKQI
 LERCRAVIRYSVKTGHPFFNQLFSGLDPHALAGRIITESLNYSQYTYEIAPVFVLMEEVLRKLRALVG
 WSSGDGIFCPGGSISNMYAVNLARYQRYPDCKQRGLRLLPPLALFTSKECHYSIQKGAFLGLGTDVSRV
 VKADERGKMVPEDLERQIGMAEAEAGAVPFLVSATSGTTVLGAFDPLEAIAVVCQRHGLWLHVDAWGGSV
 LLSQTHRHLLDGIQRADSVAWNPHKLLAAGLQCSALLLQDTSNLLKRCHGSQASYLFQQDKFYDVALDTG
 DKVVQCGRRVDCLKLWLMWKAQGDQGLERRIDQAFVLARYLVEEMKKREGFELVMEPEFVNVCFWFVPPS
 LRKQESP DYHERLSKVAPVLKERMVKEGSMIGYQPHGTRGNFRVAVVANSALTCADMDFLLNELERLQ
 QDL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001244705

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_001244705.2](#)

RefSeq Size: 2615 bp

RefSeq ORF: 1482 bp

Locus ID: 51380

UniProt ID: [Q9Y600](#)

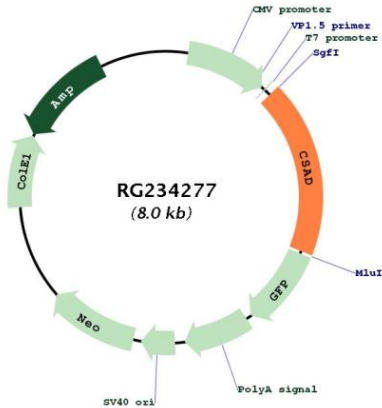
Cytogenetics: 12q13.13

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Taurine and hypotaurine metabolism

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]

Product images:



Circular map for RG234277