

Product datasheet for **RG229266**

CSAD (NM_015989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSAD (NM_015989) 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:

>RG229266 representing NM_015989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAATTCCTGAAGTCTCATTCTGCTGAGCTACCTGTGCACCCTGCCTCCGGCTCTCTGAGCA
 GAGAGATCCTGATGGCTGACTCAGAAGCACTCCCTCCCTTGTGGGGACCCAGTGGCTGTGGAAGCCTT
 GCTCCGGGCGTGTGGGGTTGTGTGGATGAGGCCATTAGAAAGGAACCAAGTGTCTCCAGAAAGGTC
 TGTGAGTGAAGGAGCCTGAGGAGCTGAAGCAGCTGCTGGATTTGGAGCTGCGGAGCCAGGGCGAGTCA
 AGAAGCAGATCCTGGAGCGGTGTCGGGCTGTGATTCGCTACAGTGTCAAGACTGGTACCCTCGTTCTT
 CAACCAGCTCTTCTGCGTTGGATCCCCATGCTCTGGCCGGGCGCATTACTGAGAGCCTCAACACC
 AGCCAGTACACATATGAAATCGCCCCGTGTTGTGCTCATGGAAGAGGAGGTGCTGAGGAACTGCGGG
 CCCTGGTGGGCTGGAGCTCTGGGACGGAATCTTCTGCCCTGGTGGCTCCATCTCCAACATGATGCTGT
 AAATCTGGCCCGCTATCAGCGCTACCCGGATTGCAAGCAGAGGGGCTCCGCACACTGCCGCCCTGGCC
 CTATTCACATCGAAGGAGTGTCACTACTCCATCCAGAAGGGAGCTGCGTTTCTGGGACTTGGCACCACA
 GTGTCCGAGTGGTCAAGGCTGATGAGAGAGGAAAATGGTCCCCGAGGATCTGGAGAGGCAGATTGGTAT
 GGCCGAGGCTGAGGGTGTGTGCCGTTCTGGTCAAGTCCACTCTGGCACCCTGTGCTAGGGGCTTT
 GACCCCTGGAGGCAATTGCTGATGTGTGCCAGCGTCAATGGGCTATGGCTGCATGTGGATGCTGCCTGG
 GTGGGAGCGTCTGTGTACAGACACACAGGCATCTCTGGATGGGATCCAGAGGGCTGACTCTGTGGC
 CTGGAATCCCCACAAGCTCCTCGCAGCAGGCTGCAATGCTCTGCACTTCTTCTCCAGGATACCTCGAAC
 CTGCTCAAGCGCTGCCATGGGTCCAGGCCAGCTACCTTTCCAGCAGGACAAGTCTACGATGTGGCTC
 TGGACAGGGGAGACAAGGTGGTGCAGTGTGGCCCGCTGTGGACTGTCTGAAGCTGTGGCTACATGGGAC
 GGCACAGGGCGATCAAGGCTGGAGCGGCGCATCGACCAGGCTTTGTCCTTGCCCGGTACTGGTGGAG
 GAAATGAAGAAGCGGAAGGGTTTGTGAGTGTGATGAGCCTGAGTTTGTCAATGTGTTTCTGGTTCTG
 TACCCCCAGCCTGCGAGGGAAGCAGGAGTCCAGATTACCACGAAAGGCTGTCAAAGGTGGCCCCGT
 GCTCAAGGAGCGCATGGTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCACGGGACCCGGGCAAC
 TTCTTCCGTGTGGTTGTGGCCAACTCTGCACTGACCTGTGCTGATATGGACTTCTCTCAACGAGCTGG
 AGCGGCTAGGCCAGGACCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG229266 representing NM_015989
 Red=Cloning site Green=Tags(s)

MSIPLKSSFLLSYLCTLPPALLSREILMADSEALPSLAGDPVAVEALLRAVFGVVVDEAIQKTSVSVQKV
 CEWKEPEELKQLLDLELRSQGESQKQILERCRAVIRYSVKTGHPFFNQLFSGLDPHALAGRIITESLNT
 SQTYEIAPVFVLMEEVLRKLRALVGWSSDGI FCPGGSISNMYAVNLARYQRYPDCKQRGLRTLPPLA
 LFTSKECHYSIQKGAFLGLGTDSVRVVKADERGKMVPEDLERQIGMAEAEAGAVPFLVSATSGTTVLGAF
 DPLEAIADVCQRHGLWLHVDAWGGSVLLSQTHRLLDGIQRADSVAWNPHKLLAAGLQCSALLLQDTSN
 LLKRCHGSQASYLFQQDKFYDVALDTGDKVVQCGRRDCLKLWLMWKAQGDQGLERRIDQAFVLARYLVE
 EMKKREGFELVMEPEFVNVCFFWVPPSLRGKQESPDYHERLSKVAPVLKERMVKEGSMIGYQPHGTRGN
 FFRVVVANSALTCADMDFLLNELERLQDL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015989

ORF Size: 1560 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_015989.5](#)

RefSeq Size: 2709 bp

RefSeq ORF: 1563 bp

Locus ID: 51380

UniProt ID: [Q9Y600](#)

Cytogenetics: 12q13.13

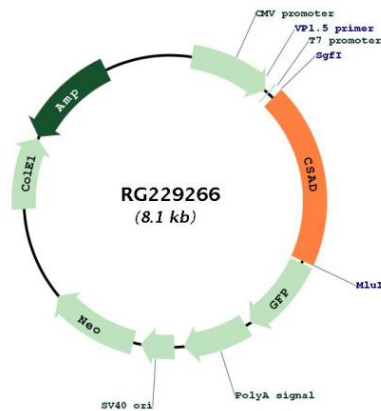
Domains: pyridoxal_deC

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 RG229266