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Product datasheet for RC229266

CSAD (NM_015989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSAD (NM_015989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSAD
Synonyms:	CSD; PCAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229266 representing NM_015989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAATTCCACTGAAGTCCTCATTTCTGCTGAGCTACCTGTGCACCCTGCCTCCGGCTCTCCTGAGCA
GAGAGATCCTGATGGCTGACTCAGAAGCACTCCCCTCCCTTGCTGGGGACCCAGTGGCTGTGGAAGCCTT
GCTCCGGGCCGTGTTTGGGGTTGTTGTGGATGAGGCCATTCAGAAAGGAACCAGTGTCTCCCAGAAGGTC
TGTGAGTGGAAGGAGCCTGAGGAGCTGAAGCAGCTGCTGGATTTGGAGCTGCGGAGCCAGGGCGAGTCAC
AGAAGCAGATCCTGGAGCGGTGTCGGGCTGTGATTCGCTACAGTGTCAAGACTGGTCACCCTCGGTTCTT
CAACCAGCTCTTCTCTGGGTTGGATCCCCATGCTCTGGCCGGGCGCATTATCACTGAGAGCCTCAACACC
AGCCAGTACACATATGAAATCGCCCCCGTGTTTGTGCTCATGGAAGAGGAGGTGCTGAGGAAACTGCGGG
CCCTGGTGGGCTGGAGCTCTGGGGACGGAATCTTCTGCCCTGGTGGCTCCATCTCCAACATGTATGCTGT
AAATCTGGCCCGCTATCAGCGCTACCCGGATTGCAAGCAGAGGGGCCTCCGCACACTGCCGCCCCTGGCC
CTATTCACATCGAAGGAGTGTCACTACTCCATCCAGAAGGGAGCTGCGTTTCTGGGACTTGGCACCGACA
GTGTCCGAGTGGTCAAGGCTGATGAGAGAGGGAAAATGGTCCCCGAGGATCTGGAGAGGCAGATTGGTAT
GGCCGAGGCTGAGGGTGCTGTGCCGTTCCTGGTCAGTGCCACCTCTGGCACCACTGTGCTAGGGGCCTTT
GACCCCCTGGAGGCAATTGCTGATGTGTGCCAGCGTCATGGGCTATGGCTGCATGTGGATGCTGCCTGGG
GTGGGAGCGTCCTGCTGTCACAGACACACAGGCATCTCCTGGATGGGATCCAGAGGGCTGACTCTGTGGC
CTGGAATCCCCACAAGCTCCTCGCAGCAGGCCTGCAATGCTCTGCACTTCTTCTCCAGGATACCTCGAAC
CTGCTCAAGCGCTGCCATGGGTCCCAGGCCAGCTACCTTTTCCAGCAGGACAAGTTCTACGATGTGGCTC
TGGACACGGGAGACAAGGTGGTGCAGTGTGGCCGCCGTGTGGACTGTCTGAAGCTGTGGCTCATGTGGAA
GGCACAGGGCGATCAAGGGCTGGAGCGGCGCATCGACCAGGCCTTTGTCCTTGCCCGGTACCTGGTGGAG
GAAATGAAGAAGCGGGAAGGGTTTGAGCTAGTCATGGAGCCTGAGTTTGTCAATGTGTGTTTCTGGTTCG
TACCCCCCAGCCTGCGAGGGAAGCAGGAGAGTCCAGATTACCACGAAAGGCTGTCAAAGGTGGCCCCCGT
GCTCAAGGAGCGCATGGTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCCCACGGGACCCGGGGCAAC
TTCTTCCGTGTGGTTGTGGCCAACTCTGCACTGACCTGTGCTGATATGGACTTCCTCCTCAACGAGCTGG
AGCGGCTAGGCCAGGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229266 representing NM_015989
Red=Cloning site Green=Tags(s)

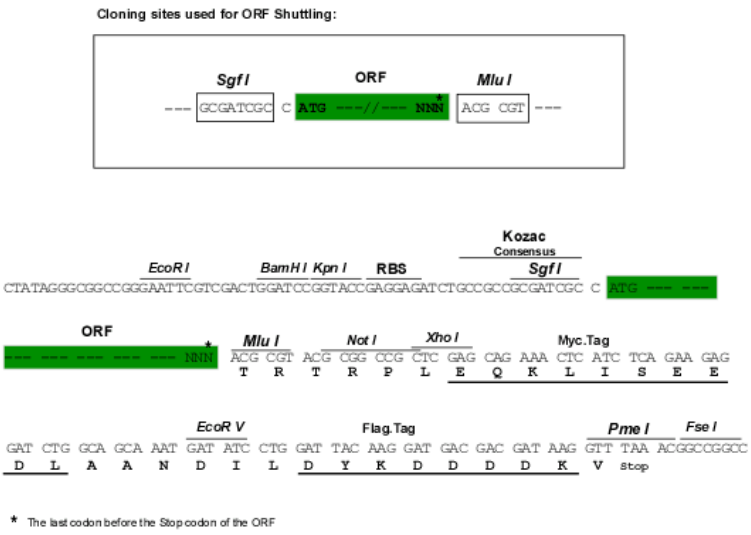
MSIPLKSSFLLSYLCTLPPALLSREILMADSEALPSLAGDPVAVEALLRAVFGVVVDEAIQKGTSVSQKV
CEWKEPEELKQLLDLELRSQGESQKQILERCRAVIRYSVKTGHPRFFNQLFSGLDPHALAGRIITESLNT
SQYTYEIAPVFVLMEEEVLRKLRALVGWSSGDGIFCPGGSISNMYAVNLARYQRYPDCKQRGLRTLPPLA
LFTSKECHYSIQKGAAFLGLGTDSVRVVKADERGKMVPEDLERQIGMAEAEGAVPFLVSATSGTTVLGAF
DPLEAIADVCQRHGLWLHVDAAWGGSVLLSQTHRHLLDGIQRADSVAWNPHKLLAAGLQCSALLLQDTSN
LLKRCHGSQASYLFQQDKFYDVALDTGDKVVQCGRRVDCLKLWLMWKAQGDQGLERRIDQAFVLARYLVE
EMKKREGFELVMEPEFVNVCFWFVPPSLRGKQESPDYHERLSKVAPVLKERMVKEGSMMIGYQPHGTRGN
FFRVVVANSALTCADMDFLLNELERLGQDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8065_c04.zip

Restriction Sites: SgfI-MluI

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 ORF: 1563 bp

Locus ID: 51380

UniProt ID: Q9Y600

Cytogenetics: 12q13.13

Domains: pyridoxal_deC

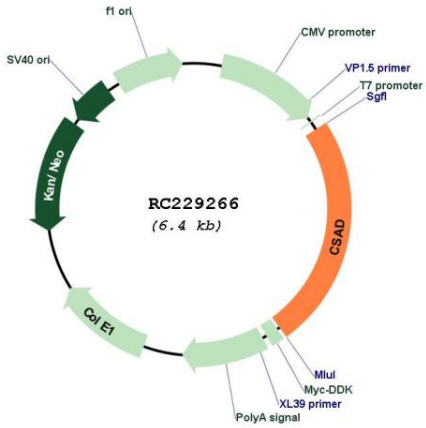
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Taurine and hypotaurine metabolism

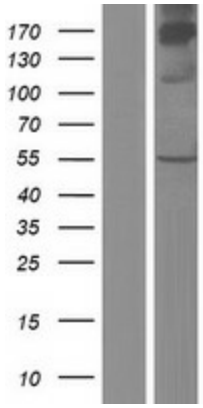
MW: 57.8 kDa

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]

Product images:



Circular map for RC229266



Western blot validation of overexpression lysate (Cat# [LY432285]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229266 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).