

Product datasheet for SC106950

MOCS2 (NM 176806) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MOCS2 (NM_176806) Human Untagged Clone

Tag: Tag Free Symbol: MOCS2

Synonyms: MCBPE; MOCO1; MOCODB; MPTS

Mammalian Cell

Selection:

None

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >NCBI ORF sequence for NM_176806, the custom clone sequence may differ by one or more

nucleotides

CTCGTGCTTCAGCCTGGAGACGAAATTGCCGTTATCCCCCCCATTAGTGGAGGATAG

GTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTAGGCGGGATGGTGC

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_176806 unedited

CATCTCTTTACTAGTGGACAAAGGGAGAAAAGGAGCAGATAAC



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

MOCS2 (NM_176806) Human Untagged Clone - SC106950

Restriction Sites: Notl-Notl

ACCN: NM 176806

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: <u>NM 176806.2</u>, <u>NP 789776.1</u>

RefSeq Size: 1347 bp
RefSeq ORF: 267 bp
Locus ID: 4338
UniProt ID: 096033

Cytogenetics: 5q11.2

Protein Families: Druggable Genome



Gene Summary:

Eukaryotic molybdoenzymes use a unique molybdenum cofactor (MoCo) consisting of a pterin, termed molybdopterin, and the catalytically active metal molybdenum. MoCo is synthesized from precursor Z by the heterodimeric enzyme molybdopterin synthase. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. The proteins were initially thought to be encoded from a bicistronic transcript. They are now thought to be encoded from monocistronic transcripts. Alternatively spliced transcripts have been found for this locus that encode the large and small subunits. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) has an alternate splice site in the 5' region, as compared to variant 3. This variant encodes the small subunit MOCS2A, also called MOCO1-A, which is derived from the upstream ORF and is supported by PMID 16737835. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: This CCDS ID represents the protein described in PMIDs: 10053003, 16737835 and 9889283. This transcript is supported by BC095417.1. It should be noted this transcript is predicted to undergo nonsense-mediated mRNA decay (NMD). However, the protein is represented because it was detected endogenously in PMID: 10053003 and 16737835.