

Product datasheet for MR201790

Mocs2 (NM_001113374) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mocs2 (NM_001113374) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mocs2
Synonyms: AI415403
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR201790 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGCTTGGAGATCAGCAACTCCTGCTTCAGCCCGGAGACGAGGTCGCCATCATCCCGCCAATCAG
TGGAGGATAATGCATCTGAGCCTTCTGGGAAAGATGTGGACGATGCCAGGAGAAACCTAAAGACATAAT
ACAGTTCCTGCGGAGAAGCTCTCTGTGGGGGAAGTGTACAGTTGGTGGTGTCCCTCTGTGTGGTGCA
GTGTCTCTTTGTAGGGACTACAAGAAATAACTTTGAAGGCAAGAAAGTCATTAGCTTAGAATATGAAG
CGTATGTACCGATGGCAGAAAATGAAATCAGAAAATTTGTAATGACATTAGACAGAAATGGCCCGTGAG
ACACATAGCAGTATCCATCGGCTTGGTTGGTCCAGTGTGAGAAGCAAGCACAGTTATTGCTGTGTCT
TCAGCTCACAGAGCCGCTCCCTCGAAGCCGTGAGCTACGCCATTGATTCTTTAAAGCCAAGGTGCCCA
TATGAAAAAGGAAATATATGAAGAATCAACCTCATCTTGAAAAAGAAACAAAGAGTGCTTCTGGGCAGC
TGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201790 protein sequence
Red=Cloning site Green=Tags(s)

MSSLEISNSCFSPETRSPSSRQSVEDNASEPSGKDVEDVQEKPKDIIQFTAELKSVGEVSQLVVSPLCGA
VSLFVGTTRNNFEGKKVISLEYEAYVPAENEIRKICNDIRQKWPVRHIAVHRLGLVPVSEASTVIAVS
SAHRAASLEAVSYAIDSLKAKVPIWKKEIYEESTSSWKRKNECFWAAGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

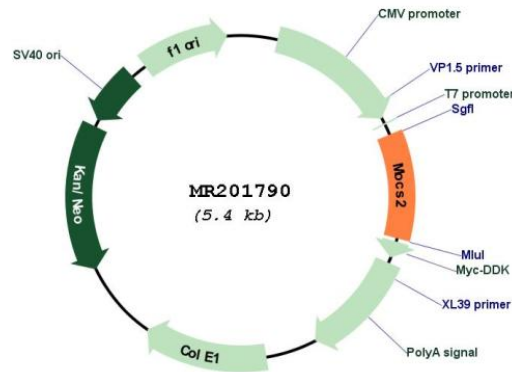
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001113374

ORF Size: 570 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_001113374.1](#), [NP_001106845.1](#)

RefSeq Size: 1767 bp

RefSeq ORF: 570 bp

Locus ID: 17434

UniProt ID: [Q9Z223](#)

Cytogenetics: 13 D2.2

MW: 20.9 kDa

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. Based on experiments with the human molybdopterin synthase ortholog, 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]