

## Product datasheet for **MC208032**

### Mocs2 (NM\_001113374) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mocs2 (NM\_001113374) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mocs2  
**Synonyms:** AI415403  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208032 representing NM\_001113374  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGAGCTTGGAGATCAGCAACTCCTGCTTCAGCCCGGAGATGAGGTTGCCATCATCCCCTCAATCAG  
TGGAGGATAATGCATCTGAGCCATCTGGAAAGATGTGGACGATGTCCAGGAGAAACCTAAAGACATAAT  
ACAGTTCACTGCCGAGAAGCTCTCTGTGGGGAAGTGTCACAGTTGGTGGTGTCCCTCTGTGTGGTGCA  
GTGTCTCTTTGTAGGGACTACAAGAAATAACTTTGAAGGCAAGAAAGTCATTAGCTTAGAATATGAAG  
CGTATGTACCGATGGCAGAAAATGAAATCAGAAAATTTGTAATGACATTAGACAGAAATGGCCCGTGAG  
ACACATAGCAGTATTCATCGGCTTGGTTGGTCCAGTGTGAGAAGCAAGCACAGTTATTGCTGTGTCT  
TCAGCTCACAGAGCCGCTCCCTCGAAGCCGTGAGCTACGCCATTGATTCTTTAAAGCCAAGGTGCCCA  
TATGAAAAAGGAAATATATGAAGAATCAACCTCATCTTGAAAAAGAAACAAAGAGTGCTTCTGGGCAGC  
TGGTGAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001113374  
**Insert Size:** 570 bp

**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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001113374.1, NP_001106845.1</u>
<b>RefSeq Size:</b>	1767 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	17434
<b>UniProt ID:</b>	<u>Q9Z223</u>
<b>Cytogenetics:</b>	13 D2.2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the 5' end, compared to variant 1, and encodes the large subunit (Mocs2B). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>