

## Product datasheet for **RC214804**

### MOCS2 (NM\_176806) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MOCS2 (NM\_176806) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MOCS2  
**Synonyms:** MCBPE; MOCO1; MOCODB; MPTS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC214804 representing NM\_176806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCGCTGTGCCAGGTTGAAGTATTGTATTTGCAAAAAGTGCTGAAATAACAGGAGTTCGTTTCAG  
AGACCATTTCTGTGCCTCAAGAAATAAAGCGTTGCAGCTGTGGAAGGAGATAGAACTCGACATCCTGG  
ATTGGCTGATGTTAGAAATCAGATAATTTGCTGTTTCGTCGAAGAATATGTCGAGCTTGAGATCAGCTC  
CTCGTGCTTCAGCCTGGAGACGAAATTGCCGTTATCCCCCATTAGTGGAGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214804 representing NM\_176806  
 Red=Cloning site Green=Tags(s)  
 MVPLCQVEVLYFAKSAEITGVRSETISVPQEIKALQLWKEIETRHPGLADVRNQIIFAVRQEYVELGDQL  
 LVLQPGDEIAVIPPISGG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6493\\_h03.zip](https://cdn.origene.com/chromatograms/mk6493_h03.zip)

**Restriction Sites:** Sgfl-Mlul



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_176806

**ORF Size:** 264 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\\_176806.4](#)

**RefSeq Size:** 1347 bp

**RefSeq ORF:** 267 bp

**Locus ID:** 4338

UniProt ID: [O96033](#)

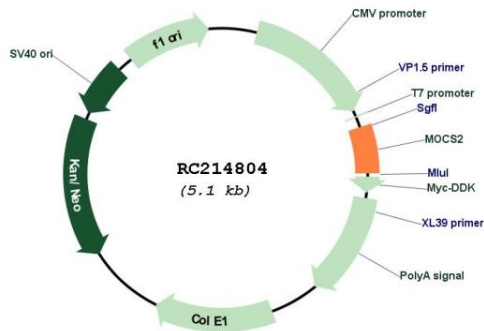
Cytogenetics: 5q11.2

Protein Families: Druggable Genome

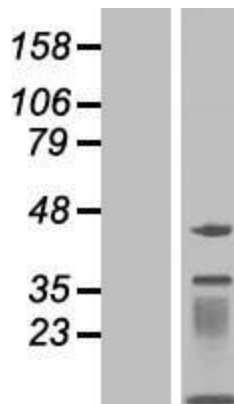
MW: 9.6 kDa

**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. 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]

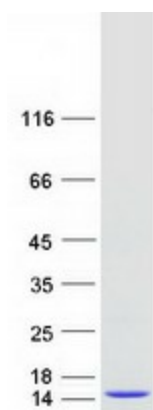
### Product images:



Circular map for RC214804



Western blot validation of overexpression lysate (Cat# [LY406129]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214804 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOCS2 protein (Cat# [TP314804]). The protein was produced from HEK293T cells transfected with MOCS2 cDNA clone (Cat# RC214804) using MegaTran 2.0 (Cat# [TT210002]).