

## Product datasheet for **RN215773**

### Mocs2 (NM\_001162413) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mocs2 (NM\_001162413) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mocs2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN215773 representing NM\_001162413  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGTTCCTAGGTGTGATCGAAGTGTGATTTTGC AAAAGTCTGAAATCGCTGGCGTTCCGCTCCG  
AGACCATCTGTGCCACAGGAAATCAAGGCATCACAGCTGTGGCAGGAGCTAGAGACTCTCCATCCTGG  
GTTGGCTGATGTTAGAAACCAGGTGATATTGCTGTTGTCGTCGAGGATGTCGAGCTTGAGATCAACAA  
CTCCTGCTTCAGCCTGGAGACGAAGTTGCCATCATCCACCAATCAGTGGAGGAT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001162413  
**Insert Size:** 267 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).  
**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.  
**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).



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**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\\_001162413.1](#), [NP\\_001155885.1](#)

**RefSeq Size:** 1614 bp

**RefSeq ORF:** 267 bp

**Locus ID:** 294753

**UniProt ID:** [Q6AY59](#)

**Cytogenetics:** 2q14

**Gene Summary:** Catalytic subunit of the molybdopterin synthase complex, a complex that catalyzes the conversion of precursor Z into molybdopterin. Acts by mediating the incorporation of 2 sulfur atoms from thiocarboxylated MOCS2A into precursor Z to generate a dithiolene group. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the small subunit (Mocs2A).