

## Product datasheet for MC216156

## Mocs3 (NM\_001160330) Mouse Untagged Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mocs3 (NM_001160330) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mocs3
Synonyms:	1700020H17Rik; Uba4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

## OriGene Technologies, Inc.

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	ocs3 (NM_001160330) Mouse Untagged Clone – MC216156
Fully Sequenced ORF:	MC216156 representing NM_001160330 Red=Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGCCCGGAGGACGTAGCTGCCTTACAGGCTGAAATCACCCGGCGGGAGGAAGAGCTAGCT
	TGGATTACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001160330
Insert Size:	1383 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).
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 Meth	<ul> <li>od: 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> </ul>

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Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM 001160330.1, NP 001153802.1
RefSeq Size:	1691 bp
RefSeq ORF:	1383 bp
Locus ID:	69372
UniProt ID:	A2BDX3
Cytogenetics:	2 H3
Gene Summary:	Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Also essential during biosynthesis of the molybdenum cofactor. Acts by mediating the C-terminal thiocarboxylation of sulfur carriers URM1 and MOCS2A. Its N-terminus first activates URM1 and MOCS2A as acyl-adenylates (-COAMP), then the persulfide sulfur on the catalytic cysteine is transferred to URM1 and MOCS2A to form thiocarboxylation (-COSH) of their C-terminus. The reaction probably involves hydrogen sulfide that is generated from the persulfide intermediate and that acts as nucleophile towards URM1 and MOCS2A. Subsequently, a transient disulfide bond is formed. Does not use thiosulfate as sulfur donor; NFS1 probably acting as a sulfur donor for thiocarboxylation reactions.[UniProtKB/Swiss-Prot Function]

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