

Product datasheet for **SC313241**

MOCS1 (AF034374) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MOCS1 (AF034374) Human Untagged Clone
Tag: Tag Free
Symbol: MOCS1
Synonyms: MIG11; MOCOD; MOCODA
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for AF034374, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGCGGCCACTGTCCCGGATGCTGCGGGCGCTTCTGAGGTCCAGCGCCCGGAGC
TGCAGCTCAGGGGCTCCGGTGACCCAGCCCTGCCCGGGGAGTCCGCGCGAGCTGCCTCG
GAGGAGGTGTCCAGGCGGAGGCAGTTCTGCGGGAGCATGCGGCCCTTCTCCGCCTTC
CTCACAGACAGCTTCGGCCGGCAGCACAGCTACCTGCGGATCTCCCTCACAGAGAAGTGC
AACCTCAGATGTCAGTACTGCATGCCCGAGGAGGGGTCCCGTGACCCCAAAGCCAAC
CTGCTGACCACAGAGGAGATCCTGACCTCGCCCGGCTCTTTGTGAAGGAAGGCATCGAC
AAGATCCGGCTCACAGGTGGAGAGCCGTTATCCGGCCGGACGTGGTGGACATTGTGGCC
CAGCTCCAGCGGCTGGAAGGGCTGAGAACCATAGGTGTTACCACCAATGGCATCAACCTG
GCCCGGCTACTGCCCCAGCTTCAGAAGGCTGGTCTCAGTGCCATCAACATCAGCCTGGAC
ACCCTGGTGCCTGCCAAGTTTGAGTTCATTGTCCGCAGGAAAGGCTTCCACAAGGTCATG
GAGGGCATCCACAAGGCCATCGAGCTGGGCTACAACCCTGTGAAGGTGAACTGTGTGGTG
ATGCGAGGCCTTAACGAGGATGAACTCCTGGACTTTGCGGCCCTTGACTGAGGGCCACCC
CTGGATGTGCGCTTCATAGAGTATATGCCCTTTGATGGCAACAAGTGGAACTTCAAGAAG
ATGGTCAGCTATAAGGAGATGCTAGACTGTCCGGCAGCAGTGGCCAGAGCTGGAGAAG
TGCCAGAGGAGGAATCCAGCACAGCCAAGGCCTTAAAAATCCCTGGCTTCCAAGGCCAG
ATCAGCTTCATCACATCCATGTCTGAGCATTCTGTGGGACCTGCAACCGCCTGCGAATC
ACAGCTGATGGGAACCTCAAGGTCTGCCTTTTGAAACTCTGAGGTATCCCTGCGGGAT
CACCTGCGAGCTGGGCTCTGAGCAGGAGCTGCTGAGAATCATTGGGGCTGCTGTGGG
AGGAAGAAGCGGCAGCATGCAGGCATGTTTCAGTATTTCCAGATGAAGAACCAGCCCATG
ATCCTCATCGGTGGG
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Restriction Sites: Please inquire

ACCN: AF034374

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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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	AF034374.1 , AAB87523.1
RefSeq Size:	3013 bp
RefSeq ORF:	750 bp
Locus ID:	4337
Cytogenetics:	6p21.2
Domains:	Elp3, Radical_SAM
Gene Summary:	Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. This gene was originally thought to produce a bicistronic mRNA with the potential to produce two proteins (MOCS1A and MOCS1B) from adjacent open reading frames. However, only the first open reading frame (MOCS1A) has been found to encode a protein from the putative bicistronic mRNA, whereas additional splice variants are likely to produce a fusion between the two open reading frames. This gene is defective in patients with molybdenum cofactor deficiency, type A. A related pseudogene has been identified on chromosome 16. [provided by RefSeq, Nov 2017]