

Product datasheet for MC210090

Mocs1 (NM_028464) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mocs1 (NM_028464) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mocs1
Synonyms: 3110045D15Rik; AI043170; AW536397
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210090 representing NM_028464
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCGGCGGGCTGCGTTCGGAATAGTGGCGAGCTCCTGAGGTCCAATGCTCGGGTTCAGCTCGG
 GGGCTCCGGTGACGCAGCCTCGCCCGGGGAGCCCTCGAGACCTACCAGGGAGGGCTGTCCCTGAGGCT
 CCAGTTCTCCAGGAGCATGCGGCTCCCTTCTCTGCCTTCTCACGGACAGCTTTGGCCACAACATAGT
 TACCTGCGGATCTCTCTACAGAGAAGTCAACCTCCGATGCCAGTATTGCATGCCCGAGGAGGGTGTGC
 CCCTGACCCCAAGCTGACCTACTGACCACAGAGGAGATCCTGACCCCTTGCCCGCCTTTTGTGAAGGA
 AGGTGTGGACAAGATCCGTCTCACTGGTGGGAGCCTCTCATCCGACCGGATGTGGTGGACATCGTGGCC
 AGACTTCATGGGCTGGAAGGGCTGAGAACCATCGGCCTCACCAACCGGCATCAACCTAGCCCGGCTGC
 TGCCCGACTTCAGCAAGCAGGGCTCAATGCTGTTAACATCAGCCTGGACACTCTGGTCCCGCCAAGTT
 TGAGTTCATCGTCCGAGAAAAGGCTTCCACAAGTTATGGAGGGTATCCACAAAGCCATCGAGCTGGGT
 TACAAGCCTGTGAAGTGAAGTGTGTGGTATGCGAGGCCTGAATGAAGACGAGCTGCTGGACTTCGTGG
 CCCTGACAGAGGGCCTCCCTTGAGCTGCGCTTATTGAGTACATGCCATTTGACGGCAACAAGTGGAA
 CTTCAAGAAGATGGTTAGCTACAAGGAGATGCTGGACACCATCCGACAGCGGTGGCCAGGGCTGGAGAAG
 CTGCCGAGGAGGACTCGAGCACTGCCAAGGCCTTTAAGATCCCTGGCTTCCAGGTCAGATCAGCTTCA
 TCACATCCATGTCAGAGCATTCTGTGGGACCTGCAACCGGTTGCGCATCACAGCTGATGGGAACCTCAA
 GGTCTGCCTTTGGAACTCTGAGGTGTCACTGCGGGACCACCTGCGGGCGGGGCTCTGAGGAGGAG
 CTGCTGAGAATCATTGGGGCCGAGTGGGTAGGAAGAAGCGGCAGCACGCAGGCATGTTCAATATTGCC
 AGATGAAGAACCAGCCATGATCCTCATCGGTGGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_028464
Insert Size:	1158 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 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:	<u>NM_028464.1</u> , <u>NP_082740.1</u>
RefSeq Size:	2655 bp
RefSeq ORF:	1158 bp
Locus ID:	56738
UniProt ID:	<u>Q5RKZ7</u>
Cytogenetics:	17 C
Gene Summary:	<p>Isoform Mocs1a and isoform Mocs1b probably form a complex that catalyzes the conversion of 5'-GTP to cyclic pyranopterin monophosphate (cPMP). Mocs1a catalyzes the cyclization of GTP to (8S)-3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate and Mocs1b catalyzes the subsequent conversion of (8S)-3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate to cPMP. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses a different splice site in the 3' UTR which results in an early stop codon, compared to variant 1. The resulting protein (isoform 2 which was also called protein A) has a shorter and distinct C-terminus when it is compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>