

Product datasheet for **MC219914**

Mocs1 (NM_020042) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mocs1 (NM_020042) 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



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Fully Sequenced ORF: >MC219914 representing NM_020042
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGCGGCTGCGTTTCGGAATAGTGGCGAGCTCCTGAGGTCCAATGCTCGGGTTGACGCTCGG
 GGGCTCCGGTGACGCAGCCTCGCCCCGGGAGCCCTCGAGACCTACCAGGGAGGGCTGTCCCTGAGGCT
 CCAGTTCCTCCAGGAGCATGCGGCTCCCTTCTCTGCCTTCTCACGGACAGCTTTGGCCGACAACATAGT
 TACCTGCGGATCTCTCTCACAGAGAAGTGAACCTCCGATGCCAGTATTGCATGCCCGAGGAGGGTGTGC
 CCCTGACCCCAAAGCTGACCTACTGACCACAGAGGAGATCCTGACCCTTGCCCGCCTCTTTGTGAAGGA
 AGGTGTGGACAAGATCCGTCTCACTGGTGGGAGCCTCTCATCCGACCGGATGTGGTGGACATCGTGCC
 AGACTTACATGGGCTGGAAGGGCTGAGAACCATCGGCCTCACCACCAACGGCATCAACCTAGCCCGGCTGC
 TGCCCGACTTCAGCAAGCAGGGCTCAATGCTGTTAACATCAGCCTGGACTCTGGTCCCGCCAAGTT
 TGAGTTCATCGTCCGAGAAAAGGCTTCCACAAGTTATGGAGGGTATCCACAAAGCCATCGAGCTGGGT
 TACAAGCCTGTGAAGGTGAAGTGTGTGGTATGCGAGGCCTGAATGAAGACGAGCTGCTGGACTTCGTGG
 CCCTGACAGAGGGCCTTCCCTTGACGCTGCGCTTCAATTGAGTACATGCCATTTGACGGCAACAAGTGGAA
 CTTCAAGAAGATGGTTAGCTACAAGGAGATGCTGGACACCATCCGACAGCGGTGGCCAGGGCTGGAGAAG
 CTGCCGGAGGAGGACTCGAGCACTGCCAAGGCCTTAAGATCCCTGGCTTCCAGGGTCAGATCAGCTTCA
 TCACATCCATGTCAGAGCATTCTGTGGGACCTGCAACCGGTTGCGCATCACAGCTGATGGGAACCTCAA
 GGTCTGCCTCTTTGGGAAGTCTGAGGTGTCACTGCGGGACCACCTGCGGGCGGGGCTCTGAGGAGGAG
 CTGCTGAGAATCATTGGGGCCGAGTGGGTAGGAAGAAGCGGCAGCAGCAGGCATGTTCAATATTGCC
 AGATGAAGAACCAGCCCATGATCCTCATCGGGTACTTTTGTGATGCTTTCAGGATTCACCACAGCTCGTTG
 GAGCAATTTCTCCTGGGATCCCTCCGTGTTTCGGAATCCAAGTCCAGACAGTGTCTCTCTGACAGATG
 GCATCTTTGTGGAAGAGACACTGCATCCCAAGGCCCTTCTCTGTCTCAACAGTGCCTAGGGTCTGGCT
 CCCCTCAGAGACTACAGCTCCTATCCAGACCCTGACTCACTCAAAGTGCCTTAGCACAGGGTCCCA
 GGCACCTGATGCCCCCTCAGGTCAGGGCCGACCTCAAATCAGCTAACTCATGTGGATTACGAGGGCGG
 GCATCTATGGTAGATGTGGGTGGGAAGCCGAGACAGAGCGGGTGGCTGTGGCCTCTGCCATGGTTCTTC
 TTGGACCCGTGGCCTTCAAGCTTGTCCAGCAGAACCAACTGAAGAAGGGCGATGCTCTCGTGGTGGCCCA
 GCTGGCTGGAGTCCAGGCAGCAAGCTAACAGTCAGTTGATCCCTCTGCCACCATGTGGCCCTGAGC
 CACGTGCAGGTACACCTGGAGTTAGACAGCACACGCCACGCTGTGTTGATCCAGGCATCCTGCCGGGCC
 GGGGTCCACCGGGTAGAGATGGAGGCGCTGACCTCGGCTGCCATGGCTGCCCTGACGGTGTATGACAT
 GTGCAAGGCAGTCAGCAGGGACATTGTGGTGCAGAGGTGAAGCTCATTAGTAAGACTGGAGGGCAGCGG
 GGAGACTTCCATCGGGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_020042
- Insert Size:** 1911 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:

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_020042.2](#), [NP_064426.2](#)

RefSeq Size: 2640 bp

RefSeq ORF: 1911 bp

Locus ID: 56738

UniProt ID: [Q5RKZ7](#)

Cytogenetics: 17 C

Gene Summary: 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]

Transcript Variant: This variant (1) encodes the longer protein (isoform 1, which was also called protein B). 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.