

Product datasheet for **RR203942**

Mocs2 (NM_001007633) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mocs2 (NM_001007633) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mocs2
Synonyms: MGC94220
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203942 representing NM_001007633
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGCTTGGAGATCAACAACCTCTGCTTCAGCCTGGAGACGAAGTTGCCATCATCCCACCAATCAG
TGGAGGATAGTGGCTCTGAGCCATCGGGGTATGAGCGAAGGACCCTCCACAGGATACCTTGAAAGATGT
GGATGATGTGCTGGAGAAACCTAAGGACATAATACAGTTCAGTCCAAGAAGCTCTCAGTGGGGGAAGT
TCACAGCTGGTGGTGTCCCTCTGTGTGGCGCAGTGTCTCTCTTTGTAGGACTACAAGAAATAACTTCG
AAGGCAAGAAAGTCATTAGCTTAGAATATGAAGCATATCTACCCATGGCAGAAAAATGAAATCAGAAAAAT
TTGCAATGACATTCGACAGAAATGGCCAGTGAGGCACATAGCGGTGTTCCATCGGCTTGGTCTGGTTCCA
GTGTCAGAAGCAAGCACAGTTATTGCTGTGTCCCTCAGCTCACAGAGCCGCGTCCCTTGAAGCCGTGAGCT
ACGCCATTGATCTTTAAAAGCCAAGGTGCCCATATGGAAGAAGGAAATATGAAGAATCAACATCATC
TTGAAAAGAAACAAGGAATGCTTCTGGGCAGCTGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203942 representing NM_001007633
Red=Cloning site Green=Tags(s)

MSSLEINNCFSLKLPSSHQSVEDSASEPSGYEAKDPPQDTLKDVEDVLEKPKDIIQFTAKKLSVGEV
SQLVVSPLCGAVSLFVGTTRNPFEGKVISLEYEAYLPAENEIRKICNDIRQKWPVRHIAVHRLGLVP
VSEASTVIAVSSAHRAASLEAVSYAIDSLKAKVPIWKKEIYEESTSSWKRKKECFWAADD

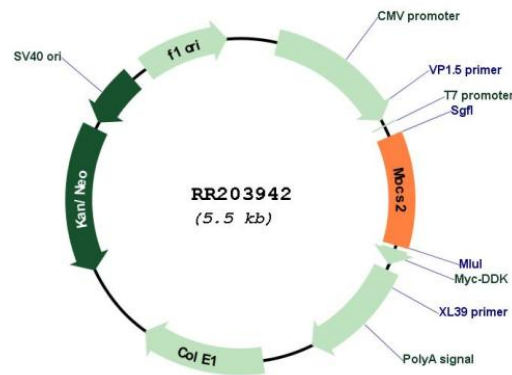
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001007633

ORF Size: 600 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001007633.2](#), [NP_001007634.1](#)

RefSeq Size: 1492 bp

RefSeq ORF: 603 bp

Locus ID: 294753

UniProt ID: [Q6AY59](#)

Cytogenetics: 2q14

MW: 22.2 kDa

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]