

Product datasheet for **RR215773**

Mocs2 (NM_001162413) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mocs2 (NM_001162413) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mocs2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215773 representing NM_001162413
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCCTAGGTGTGATCGAAGTGTGATTTTGCAAAAAGTGTGAAATCGCTGGCGTTCGCTCCG
AGACCATCTCTGTGCCACAGGAAATCAAGGCATCACAGCTGTGGCAGGAGCTAGAGACTCTCCATCCTGG
GTTGGCTGATGTTAGAAACCAGGTGATTTGCTGTTTCGTCAGAGATATGTCGAGCTTGGAGATCAACAA
CTCCTGCTTCAGCCTGGAGACGAAGTTGCCATCATCCCAATCAGTGGAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215773 representing NM_001162413
Red=Cloning site Green=Tags(s)

MVPRCQIEVLYFAKSAEIAVRSETISVPQEIKASQLWQELETLPGLADVRNQVIFAVRQEYVELGDQQ
LLLQPGDEVAIIIPPISGG

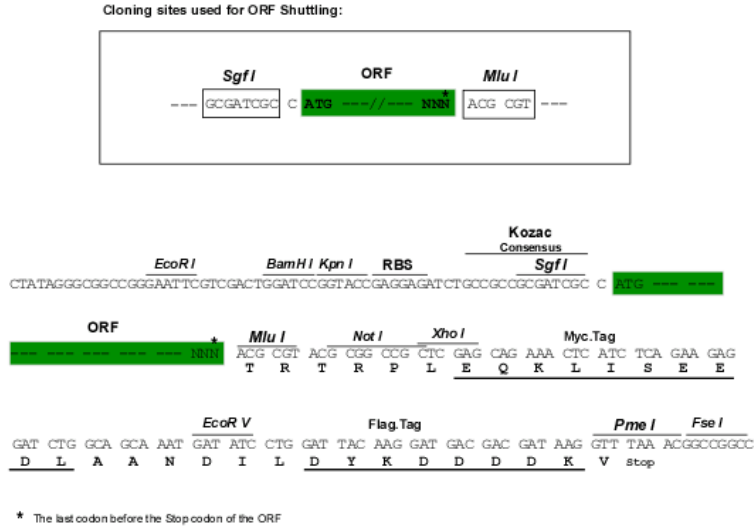
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

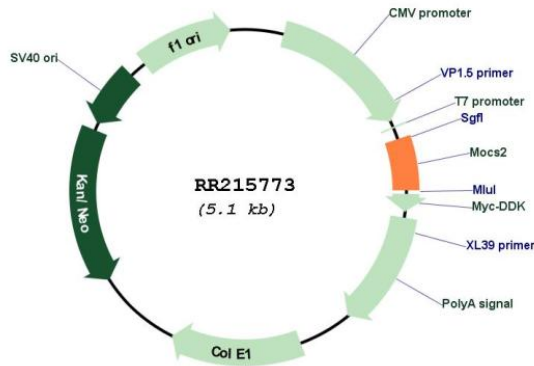


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001162413

ORF Size: 264 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:	<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:	NM_001162413.1 , NP_001155885.1
RefSeq Size:	1614 bp
RefSeq ORF:	267 bp
Locus ID:	294753
UniProt ID:	Q6AY59
Cytogenetics:	2q14
MW:	9.7 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]