OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG201790

Mocs2 (BC024371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mocs2 (BC024371) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mocs2
Synonyms:	AI415403
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG201790 representing BC024371
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAGCTTGGAGATCAGCAACTCCTGCTTCAGCCCGGAGACGAGGTCGCCATCATCCCGCCAATCAG
TGGAGGATAATGCATCTGAGCCTTCTGGGAAAGATGTGGACGATGTCCAGGAGAAACCTAAAGACATAAT
ACAGTTCACTGCCGAGAAGCTCTCTGTGGGGGAAGTGTCACAGTTGGTGGTGTCCCCTCTGTGTGGTGCA
GTGTCTCTCTTTGTAGGGACTACAAGAAATAACTTTGAAGGCAAGAAAGTCATTAGCTTAGAATATGAAG
CGTATGTACCGATGGCAGAAAATGAAATCAGAAAAATTTGTAATGACATTAGACAGAAATGGCCCGTGAG
ACACATAGCAGTATTCCATCGGCTTGGTTTGGTTCCAGTGTCAGAAGCAAGCACAGTTATTGCTGTGTCT
TCAGCTCACAGAGCCGCGTCCCTCGAAGCCGTGAGCTACGCCATTGATTCTTTAAAAGCCAAGGTGCCCA
TATGGAAAAAGGAAATATATGAAGAATCAACCTCATCTTGGAAAAGAAACAAAGAGTGCTTCTGGGCAGC
TGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG201790 representing BC024371
Red=Cloning site Green=Tags(s)

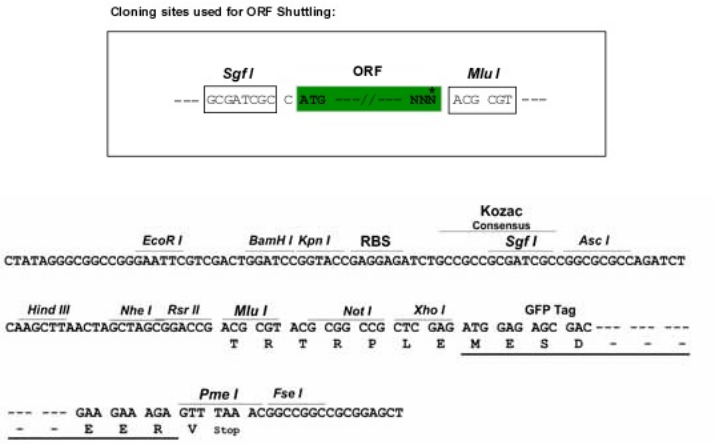
MSSLEISNSCFSPETRSPSSRQSVEDNASEPSGKDVDDVQEKPKDIIQFTAEKLSVGEVSQLVVSPLCGA
VSLFVGTTRNNFEGKKVISLEYEAYVPMAENEIRKICNDIRQKWPVRHIAVFHRLGLVPVSEASTVIAVS
SAHRAASLEAVSYAIDSLKAKVPIWKKEIYEESTSSWKRNKECFWAAGD

TRTRPLE - GFP Tag - V

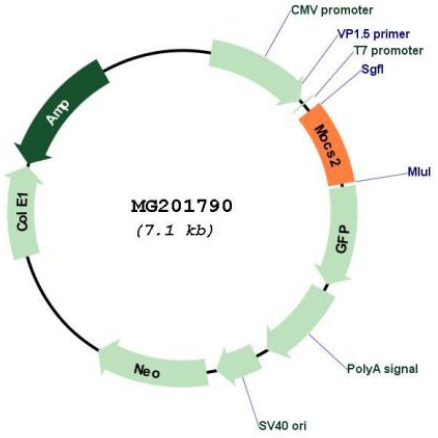
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN:	BC024371
ORF Size:	569 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:	BC024371, AAH24371
RefSeq Size:	1177 bp
RefSeq ORF:	569 bp
Locus ID:	17434
Cytogenetics:	13 D2.2
Gene Summary:	Eukaryotic molybdoenzymes use a unique molybdenum cofactor (MoCo) consisting of a pterin, termed molybdopterin, and the catalytically active metal molybdenum. MoCo is synthesized from precursor Z by the heterodimeric enzyme molybdopterin synthase. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. The proteins were initially thought to be encoded from a bicistronic transcript. Based on experiments with the human molybdopterin synthase ortholog, they are now thought to be encoded from monocistronic transcripts. Alternatively spliced transcripts have been found for this locus that encode the large and small subunits. [provided by RefSeq, Jul 2008]