

Product datasheet for MC204519

Mios (NM_145374) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mios (NM_145374) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mios
Synonyms:	C81488
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC020002

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AGGCGGGGCTCACGGCGAGGAGGTCTGCTTCGGAGGCGGCAGGGTGGTTGGTCGGGGGCCAGCGGGT
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Restriction Sites:

RsrII-NotI

ACCN:

NM_145374

Insert Size:

2628 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.

Note:

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC020002](#), [AAH20002](#)

RefSeq Size: 3715 bp

RefSeq ORF: 2628 bp

Locus ID: 252875

UniProt ID: [Q8VE19](#)

Cytogenetics: 6 A1

Gene Summary: As a component of the GATOR subcomplex GATOR2, functions within the amino acid-sensing branch of the TORC1 signaling pathway. Indirectly activates mTORC1 and the TORC1 signaling pathway through the inhibition of the GATOR1 subcomplex. It is negatively regulated by the upstream amino acid sensors SESN2 and CASTOR1.[UniProtKB/Swiss-Prot Function]