

Product datasheet for **MR214422**

Mlip (NM_027150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mlip (NM_027150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mlip
Synonyms:	2310046A06Rik; AI931782; CIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214422 representing NM_027150 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATTTGAAAGCATGAACCAGGAAGCTCACTAAAGAGGAACAAGAAGCTTAGAGGAGGGAGTGACGT
TTGAGTACAGTGATCATATGACCTTCAGCTCTGAGAGCAAACAAGAGAGGGTCCAGAGGATACTGGATTA
TCCGTGAGAGGTCAGTGGGAGGAATTCACAACAAAAGGAATTCATACAAAGGAACCTCAAGGAATGCAG
AAAGGTGATCTCTCAAAGCAGAATATGTTTTATTGTGGATTCTGATGGGAAGATGAAGCTACATGCA
GACAAGGTGAACAAGGCCCCCGGGGACCAGGCAACATAGCTACTCGGCCAAGTCTCTGGCTATTTT
TTCTAGTCTGGCTTCTGACGTGGTGCCTCCAAAGTACGAGGGGCTGATCTCAAGACCTCATCACATCCT
GAAATTCCTCATGGGATAGCCCTCAGCAAAAGCATGGGCTGGCACTAGATGAACCAGCCAGGACTGAAA
GCAACTCCAAGGCCAGCGTGTTAGACCTACCAGTGGAGCATTCTTCTGATTCTCCTTCACGGCCCCACA
GACAATGTTGGGTTCTGAAACAATCAAACTCCTACAACCTCAAGAGCAGCTGGTCGAGAAACCAAA
TACGAAATCTTCTTCATCCTCAACAGCGTCTGAGAGCCAAGTACTAAGCCTGGAGTAATTCGTG
CAGTACCTGTAATCAAACTACTCCTGAGAAAGGATGAAGAAGTTTATGAGCCCAACCCTTTCAGTAA
ATACCTTGAAGACAACAGTGGCCTGTTTTCTGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR214422 representing NM_027150
Red=Cloning site Green=Tags(s)

```
MEFGKHEPGSSLKRKNLLEEGVTFEYSDHMTFSSESKQERVQRILDYPSEVSGRNSQQKEFNTKEPQGMQ
KGDLFKAEYVFI VDSGDGEDEATCRQGEQPPGGPGNIATRPKSLAISSSLASDVVRPKVRGADLKTSSHP
EIPHGIAPQQKHGLALDEPARTESNSKASVLDLPVEHSSDSPSRPPQTM LGSETIKTPTTHPRAAGRETK
YANLSSSSSTASESQLTKPGVIRPVVKSKLLLKKDEEVYEPNPF SKYLEDN SGLF SEQ
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027150

ORF Size: 807 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_027150.1](#), [NP_081426.1](#)

RefSeq Size: 1224 bp

RefSeq ORF: 810 bp

Locus ID: 69642

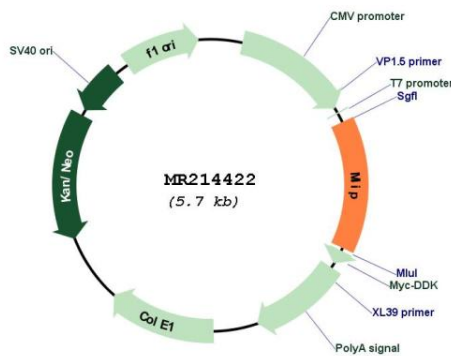
UniProt ID: [Q5FW52](#)

Cytogenetics: 9 D

MW: 29.9 kDa

Gene Summary: Required for precocious cardiac adaptation to stress through integrated regulation of the AKT/mTOR pathways and FOXO1. Regulates cardiac homeostasis and plays an important role in protection against cardiac hypertrophy (PubMed:26359501, PubMed:22343712, PubMed:26436652). Acts as a transcriptional cofactor, represses transactivator activity of ISL1 and MYOCD (PubMed:22343712).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214422