

## Product datasheet for MC210975

### Mlip (NM\_027150) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mlip (NM\_027150) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mlip  
**Synonyms:** 2310046A06Rik; AI931782; CIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210975 representing NM\_027150  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAATTTGGAAAGCATGAACCAGGAAGCTCACTAAAGAGGAACAAGAAGCTTAGAGGAGGGAGTGACGT  
 TTGAGTACAGTGATCATATGACCTTCAGCTCTGAGAGCAAACAAGAGAGGGTCCAGAGGATACTGGATTA  
 TCCGTCAGAGGTCAGTGGGAGGAATTCACAACAAAAGGAATTCATACAAAGGAACCTCAAGGAATGCAG  
 AAAGGTGATCTCTCAAAGCAGAATATGTTTTATTGTGGATTCTGATGGGAAGATGAAGCTACATGCA  
 GACAAGGTGAACAAGGCCCCCGAGGGGACCAGGCAACATAGCTACTCGGCCAAGTCTCTGGCTATTTCT  
 TTCTAGTCTGGCTTCTGACGTGGTGCCTCCAAAGTACGAGGGGCTGATCTCAAGACCTCATCACATCCT  
 GAAATTCCTCATGGGATAGCCCCCTCAGCAAAAGCATGGGCTGGCACTAGATGAACCAGCCAGGACTGAAA  
 GCAACTCCAAGGCCAGCGTGTTAGACCTACCAAGTGGAGCATTCTCTGATTCTCCTTCACGGCCCCACA  
 GACAATGTTGGGTTCTGAAACAATCAAACCTCTACAACCTATCCAAGAGCAGCTGGTCGAGAAACAAA  
 TACGCAAATCTTCTTCATCATCCTCAACAGCGTCTGAGAGCAACTGACTAAGCCTGGAGTAATTCGTC  
 CAGTACCTGTAAAATCAAACCTACTCCTGAGAAAGGATGAAGAAGTTTATGAGCCCAACCCTTTCAGTAA  
 ATACCTGAAGACAACAGTGGCCTGTTTTCTGAGCAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_027150  
**Insert Size:** 810 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_027150.1</a> , <a href="#">NP_081426.1</a>   |
| <b>RefSeq Size:</b>           | 1224 bp   |
| <b>RefSeq ORF:</b>            | 810 bp  |
| <b>Locus ID:</b>              | 69642   |
| <b>UniProt ID:</b>            | <a href="#">Q5FW52</a>  |
| <b>Cytogenetics:</b>          | 9 D   |
| <b>Gene Summary:</b>          | 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]   |