

Product datasheet for **MG214422**

MLip (NM_027150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLip (NM_027150) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MLip
Synonyms:	2310046A06Rik; AI931782; CIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214422 representing NM_027150 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAATTTGAAAGCATGAACCAGGAAGCTCACTAAAGAGGAACAAGAACTTAGAGGAGGGAGTGACGT
 TTGAGTACAGTGATCATATGACCTTCAGCTCTGAGAGCAAACAAGAGAGGGTCCAGAGGATACTGGATTA
 TCCGTCAGAGGTCAGTGGGAGGAATTCACAACAAAAGGAATTCATACAAAGGAACCTCAAGGAATGCAG
 AAAGGTGATCTCTCAAAGCAGAATATGTTTTATTGTGGATTCTGATGGGAAGATGAAGCTACATGCA
 GACAAGGTGAACAAGGCCCGCCAGGGGACCAGGCAACATAGCTACTCGGCCAAGTCTCTGGCTATTTCT
 TTCTAGTCTGGCTTCTGACGTGGTGCCTCCAAAGTACGAGGGGCTGATCTCAAGACCTCATCACATCCT
 GAAATTCCTCATGGGATAGCCCCCTAGCAAAAGCATGGGCTGGCACTAGATGAACCAGCCAGGACTGAAA
 GCAACTCCAAGGCCAGCGTGTTAGACCTACCAAGTGGAGCATTCTCTGATTCTCCTTCACGGCCCCCACA
 GACAATGTTGGGTTCTGAAACAATCAAACTCCTACAACCTCATCCAAGAGCAGCTGGTCGAGAAACCAAA
 TACGCAATCTTTCTTCATCATCCTCAACAGCGTCTGAGAGCCAAGTACTAAGCCTGGAGTAATTCGTC
 CAGTACCTGTAAATCCAACCTACTCCTGAGAAAGGATGAAGAAGTTTATGAGCCCAACCCTTTCAGTAA
 ATACCTTGAAGACAACAGTGGCCTGTTTCTGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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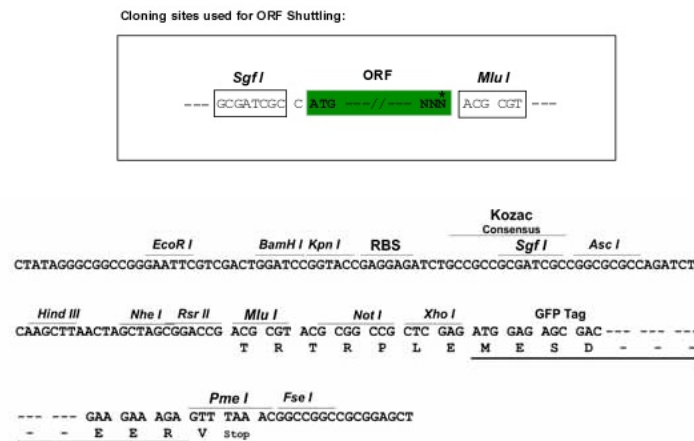
Protein Sequence: >MG214422 representing NM_027150
 Red=Cloning site Green=Tags(s)

MEFGKHEPGSSSLKRKNLEEGVTFEYSDHMTFSSESKQERVQRILDYPSEVSGRNSQQKEFNTKEPQGMQ
 KGDLFKA EYVFI VDS DGEDEATCRQGEQGP GPGNIATRPKSLA ISSLASDVVRPKVRGADLKTSSHP
 EIPHGIA PQQKHGLALDEPARTESNSKASVLDLPVEHSSDSPSRPPQ TMLGSETIKTPTTHPRAAGRETK
 YANLSSSSSTASESQLTKPGVIRPVVKSKLLLRKDEEVYEPNPF SKYLEDNSGLFSEQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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

RefSeq: [NM_027150.1](#), [NP_081426.1](#)

RefSeq Size: 1224 bp

RefSeq ORF: 810 bp

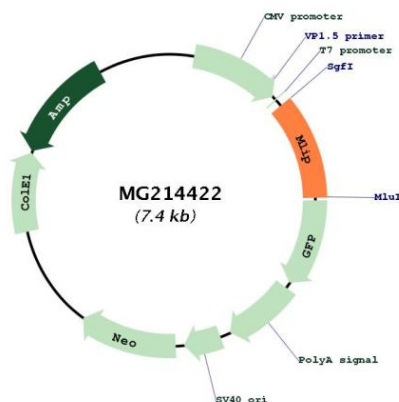
Locus ID: 69642

UniProt ID: [Q5FW52](#)

Cytogenetics: 9 D

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 MG214422