

Product datasheet for **RG218122**

MLIP (NM_138569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLIP (NM_138569) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MLIP
Synonyms:	C6orf142; CIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218122 representing NM_138569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGAAGCTGAAAGCGTGAAAAAGAAGCTTATTAACAAGAATTTAGAGGAGAACTGACGGTCTCTG
 CTGGTGGTTCTGAAGCCAAACCTCTGATCTTCACATTTGTCCCACTGTCAGAAGACTACCAACCCATAC
 TCAGTTGGCTGACACCTCTAAATTCCTTGTAAATTCAGAAGAATCAAGTGATAAGAGTCCAGAACT
 GTAAATAGGTCTAAATCCAATGACTACTTGACCTTGAATGCTGGGAGCCAACAAGAGAGAGACCAAGCGA
 AATTGACTTGTCTTCAGAGGTCACTGGAACGATTTTACAAGAAAGGGAATTCGAAGCAAACAACTTCA
 AGGGATGCAGCAAAGTGACCTCTTCAAAGCTGAATATGTCCTTATTGTGGACTCCGAAGGGGAAGATGAG
 GCTGCAAGCAGAAAAGTTGAACAAGGCCCCAGGGGGATTGGCACCAGCTATCCGGCCCAAGTCTC
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 CAGGCAGCAAACTGAAGAGCTCTGTGCTACCATGATAAGGTCTTACAGGATTCTTGTCTATGCATTCT
 TCTGATTCTCTTCAAGGTCCCAAGACATTGTTGGGTCTGACACAGTCAAACTCCTACAACCTTTC
 CAAGAGCAGCTGGTCGAGAAACCAATATGCAATCTCTCCTCACCACCTTCTACAGTATCTGAGAGTCA
 GCTGACTAAGCCTGGAGTAATTCGCCAGTACCTGTAATCCAGAATATTACTGAAAAAGAGGAGGAA
 GTCTATGAACCAACCTTTTCAGTAAATCTTGAAGATAACAGCGACCTCTTTCTGAACAGGATGTAA
 CAGTCCCTCCCAAGCCTGTCTCGCTCCATCCTTATATCAGACTAACTCTATCCTCTGCTAAGTCACT
 GCTGCATCCACAGACCCTCTCAGATGCTGACTGTCTTGGCCAGGACCCTTCAGTCATCTGCTCTCTCC
 TTGAGTGATGAACAGGAGAATTCTCACACCCTCCTCAGTCACAACGCATGCAACAAGCTGAGTCATCCAA
 TGGTGGCTATTCTGAACATGAAGCTCTTGATTCCAAAGAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

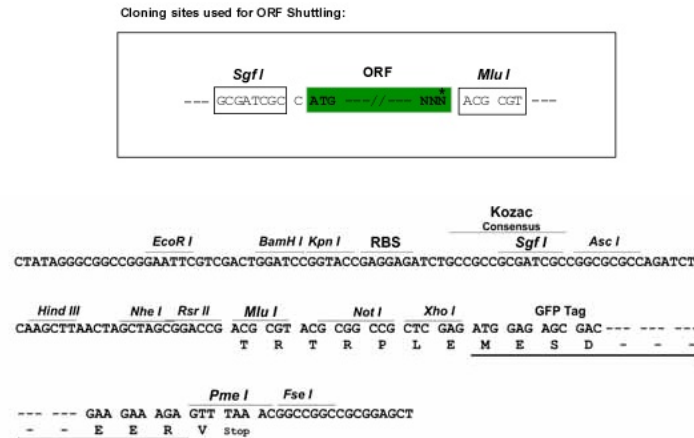
>RG218122 representing NM_138569
 Red=Cloning site Green=Tags(s)

MELEKREKRSLLNKNLEEKLTVSAGGSEAKPLIFTFVPTVRRLPHTQLADTSKFLVKIPEESSDKSPET
 VNRSKSNLYLTNAGSQQERDQAKLTCPSEVSGTILQEREFEANKLQGMQQSDLFKAQYVLIIVDSEGEDE
 AASRKVEQGGPGGIGTAIRPKSLAISSSLVSDVVRPKTQGTDLKTSHPPEMLHGMAPPQKHGQYKTKS
 SYKAFAAIPTNTLLLEQKALDEPAKTESVSKDNTLEPPVELYFPAQLRQQTEELCATIDKVLQDSLMSHS
 SDSPSRSPKTLTGSDTVKPTTLPRAAGRETKYANLSSPTSTVSESQLTKPGVIRPVVKSRILLKKEEE
 VYEPNPFKYLEDNSDLFSEQDVTVPKPVSLHPLYQTKLYPPAKSLLHPQTLSHADCLAPGPFSLHSFS
 LSDEQENSHTLLSHNACNKLSPMVAIPEHEALDSKEQ

TRTRPLE – GFP Tag – V

Restriction Sites:

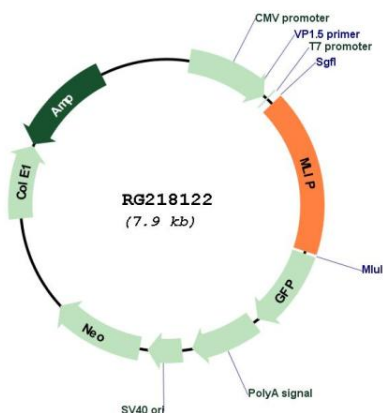
SgfI-MluI

Cloning Scheme:


ACCN:	NM_138569
ORF Size:	1374 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_138569.1 , NP_612636.1
RefSeq Size:	1740 bp
RefSeq ORF:	1377 bp
Locus ID:	90523
UniProt ID:	Q5VWP3
Cytogenetics:	6p12.1

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. Acts as a transcriptional cofactor, represses transactivator activity of ISL1 and MYOCD.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG218122