

Product datasheet for **RC239861**

MLIP (NM_001281747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLIP (NM_001281747) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLIP
Synonyms:	C6orf142; CIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239861 representing NM_001281747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCTTTTCAGAACAGGGGCTTCTGAGTGACTGCGGAACAATTACTTCCAAATGACCTCGTGCATCTTAT
CAGGGAGCATTACAGACCACCCCAGGTCTCTGCTGGTGGTCTGAAGCCAAACCTCTGATCTTCACATT
TGTCCTCCACTGTCAGAAGACTACCAACCCATACTCAGTTGGCTGACACCTCTAAATTCCTTGTTAAAT
CCAGAAGAATCAAGTGATAAGAGTCCAGAACTGTAATAGGTCTAAATCCAATGACTACTTGACCTTGA
ATGCTGGGAGCCAACAAGAGAGAGACCAAGCGAAATTGACTTGTCTTCAGAGGTCAGTGAACGATTTT
ACAAGAAAGGGAATTCGAAGCAAACAACTTCAAGGGATGCAGCAAAGTGACCTCTTCAAAGCTGAATAT
GTCCTTATTGTGGACTCCGAAGGGGAAGATGAGGCTGCAAGCAGAAAAAGTTGAACAAGGCCCCCAGGGG
GGATTGGCACCAGCTGTCCGGCCCAAGTCTCTAGCTATCTCGTCCAGTCTGGTCTCTGATGTAGTGCG
TCCCAAAACACAGGGGACTGATCTCAAGACCTCATCACATCCTGAAATGCTTCATGGGATGGCCCCCTCAG
CAAAAGCATGGGCAGTTAACTTCTTCTCCCACTACCTCTGAGCAGCTTGCTGTAAACCACTGCTTTCT
CCTTTGTTTCTCCAATAATCCGAACACACCCGACCCAGTTAACTCGAGGGAGCCTCTGTCTCTAGA
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CAAGAAGACAACCTTAACCTCGCATGTCTTAGTCACGGAGAAAGTCCGAGAACCCTTCTTCTCCACCG
TCCTCCAGTGCTTCTCTGAAGTCGAATTCGGCCTCGTACATACCAGTCCGATTGTACGCATTCACTCT
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TTTCACCTGCCTGTTTTACCAAGTCTACTCCGCTTTCTCAGGCGCCCTCCCTCTCTCTACAAAACAGG
CTAGTAGCAGCCTTGCTTCCATGAATGTAGAGAGAACACCATCACCTACTTTGAAGAGCAATACCATGCT
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CCTCCCAAGCCTGTCTCGCTCCATCCTTATATCAGACTAAACTCTATCCTCCTGCTAAGTCACTGCTGC
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TGATGAACAGGAGAATTCTCACACCTCCTCAGTCACAACGCATGCAACAAGCTGAGTCATCCAATGGTG
GCTATTCTGAACATGAAGCTCTTGATTCCAAAGAGCAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239861 representing NM_001281747
Red=Cloning site Green=Tags(s)

MLSEQGLLSDCGNYYFQMTSCILSGSIQTPQVSAGGSEAKPLIFTFVPTVRRPLPHTQLADTSKFLVKI
PEESSDKSPETVNRKSNLYTLNAGSQQERDQAKLTCPSEVSGTILQEREFANKLQGMQSDLFKA
VLIIVDSEGEDEAASRKVEQPPGGIGTAAVRPKSLAISSSLVSDVVRPKTQGTDLKTSHPMLHGM
QKHGQLTSSPTTSEQLACKPPAFSFSPTNPNTPPDPVNLEGASVLEEFHTRRLDVGGAVVEESATYFQT
TAHSTPFSASKGTSSTLLFPSTQLSGSNLPSSTAADPKPGLTSEVLKKTLLTSHVLSHGESPTSSSP
SSSASLKSNSASYIPVRIVTHSLSPSPKPTSSFHGSSTICSQMSSSGNLKSGVKSPVPSRLALLTAI
LKSNSHQRPFSASCPTFSLNSPASSTLTDQKEKQTPPTPKKSLSSCSLRAGSPDQELQVSELQQS
FHLPVFTKSTPLSQAPSLSPKQASSSLASMNVERTPSPTLKSNTMLSLLTSTSSSVGLPPVPPSSLS
SLKSKQDGLRGPENPRNIHTYPTSLASSALSSLSPINQRTFSSEKCFHPSPALSSLINRSKRASSQ
LSGQELNPSALPSLPVSSADFASLPNLRSSSLPHANLPTLVPQLSPSALHPHCGSGTLPSRLGKSESTTP
NHRSPVSTPSLPISLTRTEELISPCALSMSTGPENKSKQYKTKSSYKAFAAIPTNTLLLEQKALDEPAK
TESVSKDNTLEPPVELYFPAQLRQTEELCATIDKVLQDSLMSHSSDSPSRPKTLLGSDTVKPTTLPR
AAGRETKYANLSSPSSTVSESQLTKPGVIRVPVKSRILLKKEEVYEPNPF SKYLEDNSDLFSEQDVT
PPKPVSLHPLYQTKLYPPAKSLLHPQTLSHADCLAPGPFSHLSFSLSDEQENSHTLLSHNACNKL
AIPEHEALDSKEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001281747

ORF Size: 2979 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:

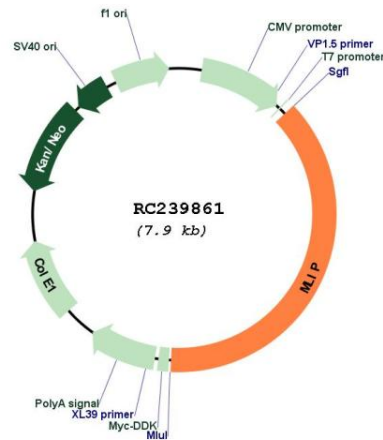
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001281747.2](#)

RefSeq Size:	3379 bp
RefSeq ORF:	2982 bp
Locus ID:	90523
UniProt ID:	<u>Q5VWP3</u>
Cytogenetics:	6p12.1
MW:	106.4 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. Acts as a transcriptional cofactor, represses transactivator activity of ISL1 and MYOCD.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239861