

Product datasheet for **RC201310**

MYLIP (NM_013262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MYLIP
Synonyms:	IDOL; MIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC201310 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGTGTTATGTGACGAGGCCGACGCGGTGCTGATGGAGGTGGAGGTGGAGGCGAAAGCCAACGGCG
 AGGACTGCCTCAACCAGGTGTGCAGGCGACTGGGAATCATAGAAAGTTGACTATTTTGGACTGCAGTTTAC
 GGGTAGCAAAGGTGAAAGTTTATGGCTAAACCTGAGAAACCGGATCTCCAGCAGATGGATGGGCTAGCC
 CCTTACAGGCTTAACTTAGAGTCAAGTTCTTCGTGGAGCCTCATCTCATCTTACAGGAGCAGACTAGGC
 ATATCTTTTCTTGACATCAAGGAGGCCCTCTTGGCAGGCCACCTCTTGTGTTCCCAAGCAGGAGCAGT
 GGAACCTCAGTGCCTCTGGCCAGACCAAGTTTGGAGACTACAACAGAACACTGCCAAGTATAACTAT
 GAGGAGCTCTGTGCCAAGGAGCTCTCTCTGCCACCTGAACAGCATTGTTGCAAAACATAAGGAGTTGG
 AGGGGACGACGAGGCTTCAGCTGAATACCAAGTTTTCAGATTGTGTCGGCAATGGAAATATGGCAT
 AGAATGGCATTCTGTGCGGATAGCGAAGGGCAGAACTGCTCATTGGGTTGGACCTGAAGGAATCTCA
 ATTTGTAAAGATGACTTTAGCCCAATTAATAGGATAGCTTATCCTGTGGTGCAGATGGCCACCCAGTCAG
 GAAAGAATGTATATTTGACGGTCACCAAGGAATCTGGGAACAGCATCGTGCTCTTGTTTAAATGATCAG
 CACCAGGGCGGCCAGCGGGCTCTACCGAGCGATAACAGAGACGCACGCATTCTACAGGTGTGACACAGTG
 ACCAGCGCGTGATGATGCAGTATAGCCGTGACTTGAAGGGCCACTTGGCATCTCTGTTTCTGAATGAAA
 ACATTAACCTTGGCAAGAAATATGTCTTTGATATTAAGAAGACATCAAAGGAGGTGTATGACCATGCCAG
 GAGGGCTCTGTACATGCTGGCGTTGTGGACCTCGTTTCAAGAAACAACAGAGCCCTTCACTCGCCT
 CTGAAGTCTCAGAAAGCAGCATGAAGTGCAGCAGCTGCGAGGGCCTCAGTGCAGCAGACCCGGGTGC
 TGCAGGAGAAGCTACGCAAGCTGAAGGAAGCCATGCTGTGCATGGTGTGCTGCGAGGAGGAGATCAACTC
 CACCTTCTGTCCCTGTGGCCACACTGTGTGCTGTGAGAGCTGCGCCGCCAGCTACAGTCATGTCCCGTC
 TGCAGGTGCGGTGTGGAGCATGTCCAGCAGCTCTATCTGCCAACGCACACAGTCTTCTCAATCTGACTG
 TAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201310 protein sequence
 Red=Cloning site Green=Tags(s)

MLCYVTRPDAVLMEVEVEAKANGEDCLNQVRRLLGIIEDVYFGLQFTGSKGESLWNLNRNISQQMDGLA
 PYRLKLRVKFFVEPHLILQEQRHIFFLHIKEALLAGHLLCSPEQAVELSALLAQTKFGDYNQNTAKYNY
 EELCAKELSSATLNSIVAKHKELEGTSQSAEYQVLQIVSAMENYGIWHSVRDSEGQKLLIGVGPEGIS
 ICKDDFSPIINRIAYPVVQMATQSGKNVYLVTKESGNSIVLLFKMISTRAASGLYRAITETHAFYRCDTV
 TSAVMMQYSRDLKGHLASLFLNENINLGKKYVFDIKRTSKEVYDHARRALYNAGVVDLVSRNNQSPSHSP
 LKSSSESMNCSSCEGLSCQQTRVLQEKLRKLKEAMLCMVCEEEINSTFCPCGHTVCCESCAAQLQSCPV
 CRSRVEHVQHVVLPHTSLLNLTVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6572_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013262

ORF Size: 1335 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_013262.4](#)

RefSeq Size: 3086 bp

RefSeq ORF: 1338 bp

Locus ID: 29116

UniProt ID: [Q8WY64](#)

Cytogenetics: 6p22.3

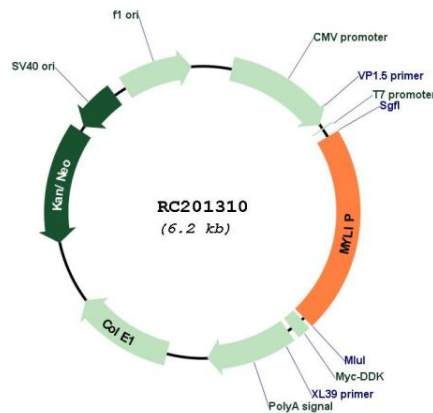
Domains: B41

Protein Families: Druggable Genome

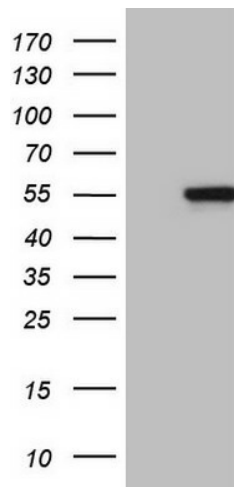
MW: 49.9 kDa

Gene Summary: The ERM protein family members ezrin, radixin, and moesin are cytoskeletal effector proteins linking actin to membrane-bound proteins at the cell surface. Myosin regulatory light chain interacting protein (MYLIP) is a novel ERM-like protein that interacts with myosin regulatory light chain and inhibits neurite outgrowth. [provided by RefSeq, Jul 2008]

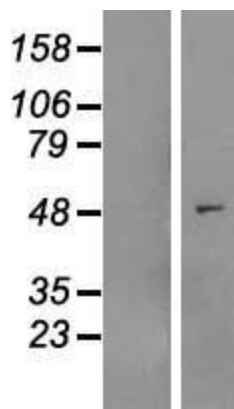
Product images:



Circular map for RC201310



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYLIP (Cat# RC201310, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYLIP (Cat# [TA807457])(1:2000). Positive lysates [LY415697] (100ug) and [LC415697] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415697]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201310 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).