

Product datasheet for **RN202353**

Mylip (NM_001107344) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylip (NM_001107344) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mylip
Synonyms:	MIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202353 representing NM_001107344
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGCTATGTGACGAGCCGACGCGGTGCTGATGGAGGTGGAGGTGGAGGCAAAGCCAACGGCG
 AGGACTGTCTCAACCAGGTGTGCAGGCGATTGGGAATCATAGAAGTTGATTATTTGGGCTGCAGTTCAC
 GGGTAGCAAAGGTGAAAGCTTATGGCTGAATCTGAGAAACCGGATCTCCAGCAGATGGATGGGCTGGCA
 CCTTACCGGCTTAAACTGAGGGTCAAGTTCTTTGTGGAGCCCATCTCATCTTACAGGAGCAGACAAGGC
 ATATCTTTTTCTGCACATTAAGAGTCCCTCTTGGCAGGCCACCTCCAGTGTCCCCAGAGCAGGCAGT
 GGAACCTAGTGCCTCTGGCCAGACAAATTCGGAGACTACAACCAGAACACTGCCAATACAGCTAT
 GAGGACCTGTGTGAGAAAGAGCTCTCCAGCTCCACATTGAACAGCATTGTTGGGAAGCATAAGGAGCTGG
 AGGGCATCAGCCAGGCTTCTGCAGAATACCAAGTTCTGCAGATTGTGCAGCAATGGAGAACTACGGCAT
 AGAGTGGCATGCCGTGAGGGACAGCGAAGGACAGAACTCCTCATTGGGGTCGGACCTGAAGGCATCTCA
 ATTTGTAAGAGGACTTTAGCCCTATTAACAGGATAGCTTATCCTGTGGTGCAGATGGCCACCCAGTCAG
 GAAAGAATGTCTACTTGACCGTCAACAAGGAGTCCGGTAACAGCATCGTGCTCCTGTTTAAAATGATCAG
 CACCCGAGCTGCCAGTGGGCTCTACCGAGCTATCACGAAACACATGCATTCTACAGGTGTGACACAGTC
 ACCAGTCCGTCATGATGCAGTACAGTCGTGACTTGAAGGGCCACTTGGCGTCTCTGTTTCTGAATGAGA
 ACATTAATCTTGGCAAGAAATATGTCTTTGATATTAAGAACATCCAAGAGGTATATGACCATGCCAG
 GAGGGCTCTGTACAACGCCGGTGTGTGGACCTGTCTCTCGAAATGACCAGAGCCCTCCAGCTCGCCT
 CTGAAGTCTCTGACAGCAGCATGAGCTGCAGCAGCTGCGAGGGCCTCAGCTGCCAGCAGACCAGAGTGC
 TGCAGGAGAAGCTGCGCAAAGTGAAGGAAGCCATGCTGTGCATGGTGTGCTGCGAGGAGGAGATCAACTC
 TACCTTTTGCCCTGTGGCCATACTGTGTGCTGTGAGAGCTGTGCAGCCAGCTGCAGTCATGTCCCGTCTC
 GCAGATCACGTGTGAACATGTCCAGCACGTCTACCTGCCACCCACACAGTCTTCTCAATCTGACTG
 TCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001107344
- Insert Size:** 1338 bp
- OTI Disclaimer:** 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).
- 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_001107344.2](#), [NP_001100814.2](#)

RefSeq Size: 3069 bp

RefSeq ORF: 1338 bp

Locus ID: 306825

UniProt ID: [D3ZDI6](#)

Cytogenetics: 17p14

Gene Summary: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of myosin regulatory light chain (MRLC), LDLR, VLDLR and LRP8. Activity depends on E2 enzymes of the UBE2D family. Proteasomal degradation of MRLC leads to inhibit neurite outgrowth in presence of NGF by counteracting the stabilization of MRLC by saposin-like protein (CNPY2/MSAP) and reducing CNPY2-stimulated neurite outgrowth. Acts as a sterol-dependent inhibitor of cellular cholesterol uptake by mediating ubiquitination and subsequent degradation of LDLR.[UniProtKB/Swiss-Prot Function]