

## Product datasheet for **MR207105**

### **Mylip (NM\_153789) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Mylip (NM_153789) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Mylip                                    |
| Synonyms:                 | 9430057C20Rik; Mir                       |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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## ORF Nucleotide Sequence:

>MR207105 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCTGTGCTATGTGACGAGGCCGACGCGGTGCTGATGGAGGTAGAGGTGGAGGCAAAGCCAACGGCG  
 AGGACTGTCTCAACCAGGTGTGCAGGCGTCTAGGGATCATCGAGGTTGATTATTTTGGGCTGCAGTTCAC  
 GGGGAGCAAAGGTGAGAGCTTATGGCTGAATCTGAGAAACCGGATCTCCAGCAGATGGATGGGCTGGCA  
 CCTTACCGCCTTAAACTGAGGTCAAGTCTTTGTGGAGCCTCATCTCATCTTACAGGAGCAGACAAGGC  
 ATATCTTTTTCTGCACATTAAGAGTCCCTCTTGGCAGGCCACCTCCAGTGTCTGCAGAGCAGGCCGT  
 GGAACCTCAGTGCCTCTGGCTCAGACCAAATTTGGAGACTACAACCAGAACACCGCCCAATACAGCTAT  
 GAGGACCTGTGTGAGAAAGAGCTCTCCAGCTCCACTTTGAACAGCATCGTTGCGAAGCATAAGGAGCTGG  
 AGGGCATCAGCCAGGCCCTCTGCCGAGTACCAGTTCTGCAGATTGTGTCAGCGATGGAGAACTACGGCAT  
 AGAGTGGCATGTGTGAGGGACAGCGAAGGACAGAACTCCTCATTGGGGTCGGACCTGAAGGCATCTCG  
 ATCTGTAAAGAGGACTTTAGCCCTATTAACAGGATAGCTTATCCTGTGGTGCAGATGGCCACCCAGTCAG  
 GAAAGAATGTCTACTTGACCGTCACCAAGGAGTCCGGCAACAGCATCGTGCTCCTGTTTAAAGATGATCAG  
 CACCAGAGCAGCCAGCGCCTCTACCGAGCCATCACCGAAACACATGCATTCTATAGGTGTGACACAGTC  
 ACCAGTGCCGTCATGATGCAGTACAGTCGCGACCTGAAGGGCCACTTGGCGTCTCTGTTTCTGAACGAAA  
 ACATTAACCTTGGTAAGAAATACGTCTTCGACATCAAGAGAACATCCAAAGAGGTCTATGACCATGCCAG  
 GAGGGCTCTGTACAACGCCGGCGTTGTGGACCTTGTCTCTCGAAGTGACCAGAGCCCCCAGCTCACCC  
 CTGAAGTCTCAGACAGCAGCATGAGCTGCAGCAGCTGTGAGGGCCTCAGCTGCCAGCAGACCCGGGTGC  
 TGCAGGAGAAGCTGCGCAAGCTGAAGGAAGCCATGCTGTGTATGGCGTGTGCGAGGAGGAGATCAACTC  
 CACCTTCTGCCCTGCGGCCACACTGTGTGCTGCGAGAGCTGTGCAGCCAGCTGCAGTCTGTCCGGTC  
 TGCAGATCCCGTGTGGAGCATGTCCAGCACGTCTACCTGCCACCCACACAGTCTCCTCAATCTGACTG  
 TCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>MR207105 protein sequence  
 Red=Cloning site Green=Tags(s)

MLCYVTRPDAVLMEVEVEAKANGEDCLNQVCRRLGIIIEVDYFGLQFTGSKGESLWLNLRNRSQQMDGLA  
 PYRLKLRVKFFVEPHLILQEQRHIFFLHIKESLLAGHLQCSAEQAVELSALLAQTKFGDYNQNTAQYSY  
 EDLCEKELSSSTLNSIVAKHKELEGISQASAEYQVLQIVSAMENYGIEWHVRDSEGQKLLIGVGPEGIS  
 ICKEDFSPINRIAYPVVQMATQSGKNVYLTVTKEGNSIVLLFKMISTRAASGLYRAITETHAFYRCDTV  
 TSAVMMQYSRDLKGHLASLFLNENINLGKKYVFDIKRTSKEVYDHARRALYNAGVVDLVSRSDQSPSSP  
 LKSSDSSMSCSSCEGLSCQQTRVLQEKLRKLKEAMLCMACCEEEINSTFCPCGHTVCCESCAQLQSCPV  
 CRSRVEHVQHVVLPHTHTSLLNLTVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_153789

ORF Size: 1335 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

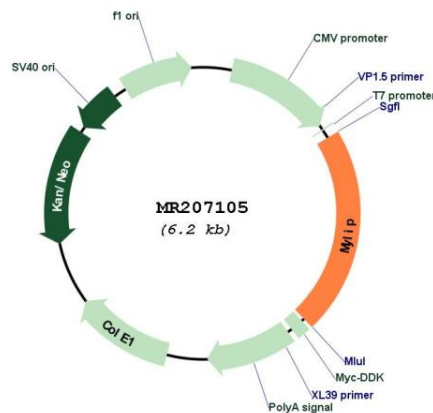
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note:</b>         | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq:</b>       | <a href="#">NM_153789.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>  | 2983 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq ORF:</b>   | 1338 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Locus ID:</b>     | 218203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID:</b>   | <a href="#">Q8BM54</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b> | 13 A5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MW:</b>           | 49.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Summary:</b> | 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] |

## Product images:



Circular map for MR207105