

## Product datasheet for **MC219452**

### **MIph (NM\_053015) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIph (NM_053015) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	MIph
Synonyms:	2210418F23Rik; 5031433I09Rik; AW228792; D1Wsu84e; I(1)-3Rk; I1Rk3; In; Slac-2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219452 representing NM\_053015  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAAAAGGTTGGACCTTTCCACGCTCACAGACGAGGAGGCTGAGCACGTGTGGCAGTGGTTCAGC  
 GGGACTTTGACCTCAGGAGGCGAGAGGAAGAAAGACTCCAGGGGCTGAAGGGCAAAATACAAAAGGAGAG  
 CTCCAAGAGGGAGCTGCTGTCGGACACAGCCATCTGAATGAGACTCACTGTGCCCGCTGCCTGCAGCCC  
 TACCGGCTGCTCCTGAACAGCAGACGACAGTGCCTAGAGTGCAGCCTCTTCGTCTGCAAAAGCTGCAGCC  
 ACGCCACCCAGAAGAGCAGGGCTGGCTCTGCGACCCCTGCCACCTGGCCAGGGTCTGGAAGATCGGTTC  
 TCTGGAGTGGTACTACCAGCACGTGAGGGCTCGCTTCAAGCGTTTCGGGAGTGCCAAAGTATCCGGTCT  
 CTCTGTGGGCGGCTGCAGGGTGGAGGTGGATCTGAGCCAAGCTTGAAGAAGGAAATGGAGACAGTGAAC  
 AGACTGATGAGGATGGAGACCTGGACACAGAGGCCAGAGACCAGCCCTCAACAGCAAAAAGAAAAAGCG  
 CCTGCTCTCCTCCGAGATGTGGACTTTGAGGAAGACTCAGACCCTTGGTGCAGCCTTGCAGCCAAACC  
 TTGGGCTGTCCCTCAGTCCCTGAGTCTGCACACAGCCTGCAGTCCCTCTCAGGTGAGCCCTACTCTGAGG  
 ACACCACCTCTCTGGAGCCCAGGGCCTAGAGGAGACTGGTGCAAGGGCTTTGGGATGTCATCCCAGTCC  
 TGAAGTGCAGCCATGTAGCCCTTACCCTCTGGGGAGGATGCTCACGCTGAACTGGACTCGCCTGCAGCA  
 TCCTGCAAGAGTGCCTTTGGGACCACAGCTATGCCTGGAACAGACGATGTGAGGGCAAAACATCTGCCCT  
 CACAGTACCTGGCTGATGTAGACACCTCTGATGAAGACAGTATCCAGGGTCCCAGGGCAGCCTCCCAGCA  
 TAGCAAGAGGAGGGCCCGGACTGTGCCTGAGACTCAGATCTTGGAGTTGAACAAGCGAATGTCAGCTGTG  
 GAGCACCTGCTAGTCCACCTGGAGAATACGGTTCTGCCACCCTCAGCCCAGGAACCAACTGTGGAGACAC  
 ACCCCAGTGTGACACAGAGGAGGAGACTCAGGAGGAGGCTGGAGGAGCTGACCAGAACATCAGTGG  
 TTCCAGCACCTCATCAGAAGATGAGACCAAGCCAGATGGCACCTTCTTGGAGGGTCCCCAAAGGTGTGC  
 ACAGACACAGGGCACATGGAGACACAGGAAGGAACCCTCGGAGCCCTGGGAACCCTGCTCGGCCTACAA  
 AAAGCACAGATGAGGAGCTCTCTGAGATGGAGGATAGAGTGGCCATGACAGCCTCTGAAGTTCAGCAGGC  
 TGAGAGTGAGATCTCAGACATCCAGTCCAGGATCGCAGCTCTGAGAGCCGAGGACTCACAGTGAAGCCC  
 TCGGGAAAACCTCGGAGAAAGTCAAGCATCCCGATCTTTCTTCCCGCGTTACTGAGAACTTGACAGGA  
 TCCCAAAGACTCCACCTGCAGACCCTGATACCAAGCCAAGATGCCCAAGGCAACAACAGCTGTGCCCTC  
 TCTCTGAGGAGGAAGTATTCTCCAGCAGCCAAGGCGTAGACAGTGGTCTTTTGTATCGGAAATCAGTG  
 TACCGTGGCTCGCTGACCAAAGGAACCCTAACGGGAGGAGGGACAGCCAGACACATCTTCGCGAAAC  
 CCGTGATGGCCCAGCAGCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053015
- Insert Size:** 1773 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\\_053015.3](#), [NP\\_443748.2](#)

**RefSeq Size:** 4484 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 171531

**UniProt ID:** [Q91V27](#)

**Cytogenetics:** 1 45.73 cM

**Gene Summary:** Rab effector protein involved in melanosome transport. Serves as link between melanosome-bound RAB27A and the motor protein MYO5A.[UniProtKB/Swiss-Prot Function]