

## Product datasheet for **MR221872**

### **MIph (NM\_053015) Mouse Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR221872 representing NM\_053015  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAAAAGGTTGGACCTTCCACGCTCACAGACGAGGAGGCTGAGCACGTGTGGCAGTGGTTCAGC  
 GGGACTTTGACCTCAGGAGGCGAGAGGAAGAAAGACTCCAGGGGCTGAAGGGCAAAATACAAAAGGAGAG  
 CTCCAAGAGGGAGCTGCTGTCGGACACAGCCATCTGAATGAGACTCACTGTGCCCGCTGCCTGCAGCCC  
 TACCGGCTGCTCCTGAACAGCAGACGACAGTGCCTAGAGTGCAGCCTCTTCGTCTGCAAAAGCTGCAGCC  
 ACGCCACCCAGAAGAGCAGGGCTGGCTCTGCGACCCCTGCCACCTGGCCAGGGTCTGAAGATCGGTTC  
 TCTGGAGTGGTACTACCAGCACGTGAGGGCTCGCTTCAAGCGTTTCGGGAGTGCCAAAGTATCCGGTCT  
 CTCTGTGGGCGGCTGCAGGGTGGAGGTGGATCTGAGCCAAGCTTGAAGAAGGAAATGGAGACAGTGAAC  
 AGACTGATGAGGATGGAGACCTGGACACAGAGGCCAGAGACCAGCCCTCAACAGCAAAAAGAAAAAGCG  
 CCTGCTCTCCTCCGAGATGTGGACTTTGAGGAAGACTCAGACCCTTGGTGCAGCCTTGCAGCCAAACC  
 TTGGGCTGTCTCAGTCCCTGAGTCTGCACACAGCCTGCAGTCCCTCTCAGGTGAGCCCTACTCTGAGG  
 ACACCACCTCTCTGGAGCCCAGGGCCTAGAGGAGACTGGTGCAAGGGCTTTGGGATGTCATCCCAGTCC  
 TGAAGTGCAGCCATGTAGCCCTTACCCTCTGGGGAGGATGCTCACGCTGAACTGGACTCGCTGCAGCA  
 TCCTGCAAGAGTGCCTTTGGGACCACAGCTATGCCTGGAACAGACGATGTGAGGGCAAAACATCTGCCCT  
 CACAGTACCTGGCTGATGTAGACACCTCTGATGAAGACAGTATCCAGGGTCCCAGGGCAGCCTCCAGCA  
 TAGCAAGAGGAGGGCCCGGACTGTGCCTGAGACTCAGATCTTGGAGTTGAACAAGCGAATGTCAGCTGTG  
 GAGCACCTGCTAGTCCACCTGGAGAATACGGTTCTGCCACCCTCAGCCAGGAACCAACTGTGGAGACAC  
 ACCCCAGTGTGACACAGAGGAGGAGACACTCAGGAGGAGGCTGGAGGAGCTGACCAGCAACACTGTTGG  
 TCCAGCACCTCATCAGAAGATGAGACCAAGCCAGATGGCACCTCCTTGGAGGGTCCCCAAAGGTGTGC  
 ACAGACACAGGGCACATGGAGACACAGGAAGGAACCCTCGGAGCCCTGGGAACCCTGCTCGGCCTACAA  
 AAAGCACAGATGAGGAGCTCTCTGAGATGGAGGATAGAGTGGCCATGACAGCCTCTGAAGTTCAGCAGGC  
 TGAGAGTGAATCTCAGACATCCAGTCCAGGATCGCAGCTCTGAGAGCCGAGGACTCACAGTGAAGCCC  
 TCGGGAAAACCTCGGAGAAAGTCAAGCATCCCGATCTTTCTTCCCGCGTTACTGAGAACTTGACAGGA  
 TCCCAAAGACTCCACCTGCAGACCCTGATGACCAAGCCAAGATGCCCAAGGCAACAACAGCTGTGCCCTC  
 TCTCTGAGGAGGAAGTATTCTCCAGCAGCCAAGGCGTAGACAGTGGTCTTTTGTGCGAAATCAGTG  
 TACCGTGGCTCGCTGACCAAAGGAACCCTAACGGGAGGAGGGACAGCCAGACACATCTTCGCGAAAC  
 CCGTGATGGCCAGCAGCCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221872 representing NM\_053015  
 Red=Cloning site Green=Tags(s)

MGKRLDLSTLTDEEAHVAVVQRDFDLRRREEERLQGLKGIQKESKRELLSDTAHLNETHCARCLQP  
 YRLLLSRRQCLECSLFVCKSCSHAPPEEQWLCDPCHLARVVKIGSLEWYYQHVRFKRFSAKIVIRS  
 LCGRLQGGGSEPSLEEGNGDSEQTDDEGDLDEARDQPLNSKKKRLLSFRDVFDEEDSDHLVQPCSQT  
 LGLSSVPESAHSLSLSEPEYSEDTTSLPEGLEETGARALGCHPSPEVQPCSPSPGEDAHAELDSPAA  
 SCKSAFGTTAMPGTDDVRGKHLPSQYLADVDTSDEDSIQGPRAASQHSKRRARTVPETQILELNKRMSAV  
 EHLLVHLENTVLPESAQEPTVETHPSADTEETLRRRLEELTSNISGSSTSEDETKPDGTFLLGGSPKVC  
 TDTGHMETQERNPRSPGNPARPTKSTDEELSEMEDRVAMTASEVQQAESISDIQSRIAALRAAGLTVKP  
 SGKPRRSGIPIFLPRVTEKLDRIKTPPADPDDQAKMPKATTAVPSLLRRKYSPSSQGVDSGSFDRKSV  
 YRGLTQRNPNRRGTARHIFAKPVMAQQP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9045\\_h08.zip](https://cdn.origene.com/chromatograms/mm9045_h08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_053015

ORF Size: 1770 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.

RefSeq: [NM\\_053015.3](#), [NP\\_443748.2](#)

RefSeq Size: 4484 bp

RefSeq ORF: 1773 bp

Locus ID: 171531

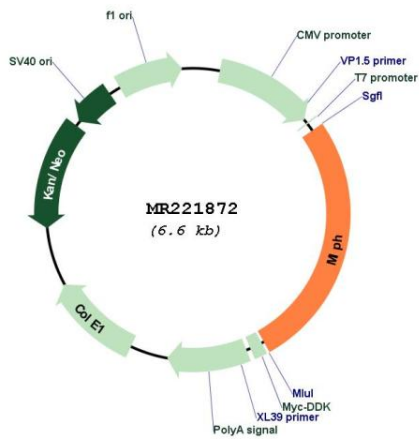
UniProt ID: Q91V27

Cytogenetics: 1 45.73 cM

MW: 65.5 kDa

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]

**Product images:**



Circular map for MR221872