

## Product datasheet for **RN209905**

### **Rhot2 (NM\_181823) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rhot2 (NM_181823) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rhot2
Synonyms:	Miro2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN209905 representing NM\_181823  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGCGCGACGTGCGCATCTGCTGCTGGGCGAGGCCAGGTGGGAAGACTTCTCTGATCCTGTGCG  
 TGGTCGGCGAGGAGTTTCCCGAGGAGTCCCTGCCGCGCGGAGGAGATAACCATCCCCGCGACGTCAC  
 CCCAGAGAAGGTGCCACCCATATCGTGGATTACTCAGAAGCGGAGCAGACAGAGGAGAACTTCAGGAG  
 GAGATCCACAAGGCAAACGTGGTGTGTGGTGTACGATGTGTCTGAGGAAGCCACCATTGAGAAGATCC  
 GAACCAAGTGGATTCCCCTCGTGAATGGCAGGACGGCAACAGGGCCAGGTTGCCCATCATCCTGGTAGG  
 CAATAAGTCAGACCTGCGGCCAGGGAGTACCATAGAGGCTGTGTTGCCATTATGAGCCAGTTTCTGAG  
 ATAGAGACCTGTGTGGAGTGTCTGCCAAGCACTTGAGGAATATCTCAGAGCTGTCTACTATGCCCAGA  
 AGGCTGTTCTGCATCCCACCGCTCCCCTTATGACCCTGAGGCCAAACAGTTAAGGCCTGCCTGCGCCCA  
 GGCACCTCACGCATCTCAGGCTGTCGGATCAGGACCTAGACCACGCACTCAGCGACAAGGAGCTCAAT  
 GCCTTCCAGAAGTCTGCTTTGGCCATCCTCTGGCCCCACAAGCCCTGGAGGATGTAAAGAGGGTAGTGT  
 GCAAGAATGTGGCAGGTGGTGTGCAAGGATGACCGACTGACCCTGGAAGGCTTCTCTTCCCTGAACACACT  
 TTTTCATCCAGCGTGGCCGGCATGAGACTACGTGGACCATCCTACGGCGCTTTGGTTACAGTGACTCGCTG  
 GAGCTGACTCCTGACTACCTCTGTCCACCGCTCTACGTACCCCTGGCTGCAGCACCGAGCTCAACCATC  
 GTGGCTACCAGTTTGTGCAGCGGGTGTGAGAAGCATGATCAGGACCATGATGGTGTCTCTCACCCAC  
 GGAAGTACAGAGTCTCTCAGCGTGTCTCAGTTGCTCCGTGGGGCCCTGAACTTTACACACAGTCCCC  
 ACTGAGGCTGGCTGTCTGCTTGGCTACCTGGGTTACCCTACCCTCTGTGAGCAGGACTCACAGGCACAGGC  
 AGCACTGCCTTGCCCATCTTGGCTACCTGGGTTACCCTACCCTCTGTGAGCAGGACTCACAGGCACAGGC  
 TATCACAGTTACCCGCGAGAAGAGACTGGACCAGGAGAAAGGGCAAACACAGCGCAGCGTCTCATGTGT  
 AAGGTGTTGGGAGCCCGAGGAGTGGGCAAGTCGGCCTTCTGTCAGGCCTTCTCGGCCACAGCCTTGGGG  
 AAGCCAGGGACAGGGACGCCCTGAGAAATTGCCACGCATACCATCAATACAGTGCGGGTGCAGCGGACA  
 GGAAAAGTACCTGATTCTGTGTGAAGTGAATGCTGACAGCCTGCTGGACACCTCTCTAGACACTACCTGT  
 GATGTCGCTGCTTAATGTTTGACAGCAGTGACCCCGAGACCTTCGTGCAGTGTGCTACCATCTACAAGC  
 GTTATTACATGGATGGGACAGACACCTGCCTTTATCTCCTCAAAGCTGATCTCCTGAAGGTGTTGC  
 CCCACCAGGCTATCACCAGCTGAGTTCTGCCGTAGGCACCGGCTGCCAGCCCCGGCCTCATTCTCCTGC  
 TTGGGACCAGCACAGTCCAGCATAGATGTCTTTACCAACTTGCTACTATGGCCACTTTCCACACCTGG  
 CGCACACAGAGCTGCACCCACCCCTTCTGGCTCCGAGGCGTGTGGTGGCTGTTGGGACCGCGGTGGC  
 TGCTGTCTTAGCTTCTCACTATATAGGGTCTAGTGAAGAGCCGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_181823

**Insert Size:** 1869 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\\_181823.1](#), [NP\\_861544.1](#)

**RefSeq Size:** 2781 bp

**RefSeq ORF:** 1869 bp

**Locus ID:** 287156

**UniProt ID:** [Q7TSA0](#)

**Cytogenetics:** 10q12

**Gene Summary:** Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution (By similarity).  
[UniProtKB/Swiss-Prot Function]