

Product datasheet for **RC216260**

MIRO1 (RHOT1) (NM_001033566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIRO1 (RHOT1) (NM_001033566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIRO1
Synonyms:	ARHT1; MIRO-1; MIRO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC216260 representing NM_001033566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAAAGACGTGCGGATCCTGCTGGTGGGAGAACCTAGAGTTGGGAAGACATCACTGATTATGTCTC
 TGGTCAGTGAAGAATTTCCAGAAGAGGTTCTCCCGGGCAGAAGAAATCACCATTCCAGCTGATGTCAC
 CCCAGAGAGAGTTCCAACACACATTGTAGATTACTCAGAAGCAGAACAGAGTGATGAACAACCTTCATCAA
 GAAATATCTCAGGCTAATGTCATCTGTATAGTGTATGCCGTTAACAAACAAGCATTCTATTGATAAGGTAA
 CAAGTCGATGGATTCTCTCATAAATGAAAGAACAGACAAAGACAGCAGGCTGCCTTAATATTGGTTGG
 GAACAAATCTGATCTGGTGAATATAGTAGTATGGAGACCATCCTTCTATTATGAACAGTATACAGAA
 ATAGAAACCTGTGTGGAGTGTTCAGCGAAAAACCTGAAGAACATATCAGAGCTCTTTTATTACGCACAGA
 AAGCTGTTCTTCATCCTACAGGGCCCTGTACTGCCAGAGGAGAAGGAGATGAAACCAGCTTGATAAA
 AGCCCTTACTCGTATATTTAAAAATCTGATCAAGATAATGATGGTACTCTCAATGATGCTGAACCTAAC
 TTCTTTACAGAGGATTTGTTTCAACACTCCATTAGCTCCTCAAGCTCTGGAGGATGTCAAGAATGTAGTCA
 GAAAACATATAAGTGATGGTGTGGCTGACAGTGGGTTGACCTGAAAGGTTTTCTTTTTACACACACT
 TTTTATCCAGAGAGGGAGACACGAACTACTTGGACTGTGCTTCGACGATTTGGTTATGATGATGACCTG
 GATTTGACACCTGAATATTTGTTCCCTCTGCTGAAAATACCTCCTGATTGCACTACTGAATTAATCATC
 ATGCATATTTATTTCTCCAAAGCACCTTGGACAAGCATGATTTGGATAGAGACTGTGCTTTGTCACCTGA
 TGAGCTTAAAGATTTATTTAAAGTTTTCCCTTACATACCTTGGGGCCAGATGTGAATAACACAGTTTGT
 ACCAATGAAAGAGGCTGGATAACCTACCAGGGATTCTTTCCAGTGGACGCTCACGACTATTTAGATG
 TACAGCGGTGCCGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAAGCTTC
 AGCTGTTACAGTGACAAGAGATAAAAAAGATAGACCTGCAGAAAAACAACTCAAAGAAATGTGTTTCA
 TGTAAATGTAATTGGAGTGAAAACTGTGGGAAAAGTGGAGTTCCTCAGGCTCTTCTTGAAGAACTTAA
 TGAGGCAGAAGAAAATTCGTGAAGATCATAAATCCTACTATGCGATTAACACTGTTTATGTATATGGACA
 AGAGAAATACTTGTGTTGCATGATATCTCAGAATCGGAATTTCTAACTGAAGCTGAAATCATTGTGAT
 GTTGTATGCCTGGTATATGATGTCAGCAATCCCAAATCCTTTGAATACTGTGCCAGGATTTTAAAGCAAC
 ACTTTATGGACAGCAGAATACCTTGCTTAATCGTAGCTGCAAAGTCAGACCTGCATGAAGTTAAACAAGA
 ATACAGTATTTACCTACTGATTTCTGCAGGAAACACAAAATGCCTCCACCACAAGCCTTCACTTGCAAT
 ACTGCTGATGCCCCAGTAAGGATATCTTTGTTAAATTGACAACAATGGCCATGTATCCCATGCCCGGT
 TACGCTGTATGTGACCTGCAACAGGTGTACATTTGCATCTGTCAGAACTTCTCAACTCAGACTTGCT
 GCAATCTGTAAAGAACAAAATCTTCACTGCAGTCTTAAACAGGCAGTGACACAAGCTGACCTCAAGAGC
 TCCACGTTTTGGCTTCGAGCAAGTTTTGGTGCTACTGTTTTTGCAGTTTTGGGCTTTGCTATGTACAAAG
 CATTATTGAAACAGCGA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216260 representing NM_001033566
Red=Cloning site Green=Tags(s)

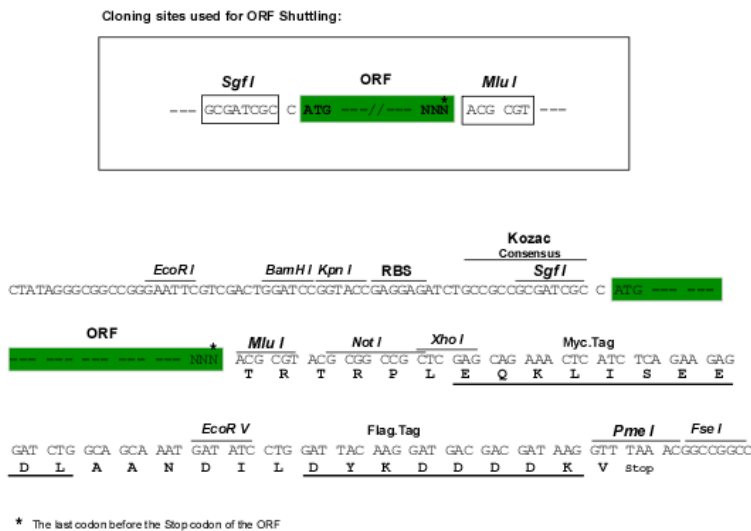
MKKDVRILLVGEPRVGKTSLIMSLVSEEFPEEVPRAEETIPADVTPERVPTHIVDYSEAEQSDEQLHQ
 EISQANVICIVYAVNNKHSIDKVTSRWIPLINERTDKDSRLPLILVGNKSDLVEYSSMETILPIMNQYTE
 IETCVCESAKNLKNISELFYYAQKAVLHPTGPLYCPEEKEMKPACIKALTRIFKISDQDNDGTLNDAELN
 FFQRICFNTPLAPQALEDVKNVVRKHISDGVADSGLTLKGFLFLHTLFIQRGRHETTWTVLRFRFGYDDDL
 DLTPEYLFPLLKIPPDCTTELNHAYLFLQSTFDKHDLDRDCALSPDELKDLFKVFPYIPWGPVNNNTVC
 TNERGWITYQGFLLSQWTLTTYLDVQRCLYLGYLGYLSILTEQESQASAVTVTRDKKIDLQKKQTQRNVFR
 CNVIGVKNCGKSGVLQALLGRNLMRQKKIREDHKSYYAINTVYVYQGEKYLLHDI SESEFLTEAEIICD
 VVCLVYVSNPKSFEYCARIKQHFMSRIPCLIVAASDLHEVKQEYSISPTDFCRKHKMPPPAQATCN
 TADAPSKDIFVKLTMMYPHARLCMCTCNRCTFCICQNFLNSDLLQSVKNKIFTAVLNRHVTQADLKS
 STFWLRASFGATVFAVLGFAMYKALLKQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8071_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033566

ORF Size: 1977 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_001033566.2](#), [NP_001028738.1](#)

RefSeq Size: 3213 bp

RefSeq ORF: 1980 bp

Locus ID: 55288

UniProt ID: [Q8IXI2](#)

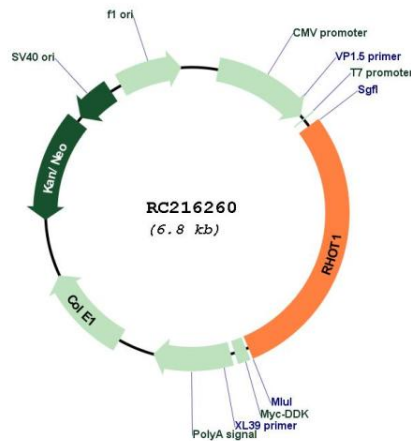
Cytogenetics: 17q11.2

Protein Families: Transmembrane

MW: 75.4 kDa

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

Product images:



Circular map for RC216260