

Product datasheet for **RC238712**

MIRO1 (RHOT1) (NM_001288758) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIRO1 (RHOT1) (NM_001288758) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHOT1
Synonyms:	ARHT1; MIRO-1; MIRO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238712 representing NM_001288758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGACCATCCTTCTATTATGAACCAGTATACAGAAATAGAAACCTGTGTGGAGTGTTCAGCGAAAA
 ACCTGAAGAACATATCAGAGCTCTTTTATTACGCACAGAAAGCTGTTCTTCATCCTACAGGGCCCTGTA
 CTGCCAGAGGAGAAGGAGATGAAACCAGCTTGTATAAAAGCCCTTACTCGTATATTTAAAAATATCTGAT
 CAAGATAATGATGGTACTCTCAATGATGCTGAACTCAACTTCTTTAGAGGATTTGTTTCAACACTCCAT
 TAGCTCCTCAAGCTCTGGAGGATGTCAAGAATGTAGTCAGAAAACATATAAGTATGGTGTGGCTGACAG
 TGGGTTGACCCTGAAAGGTTTTCTTTTTACACACACTTTTTATCCAGAGAGGGAGACACGAAACTACT
 TGGACTGTGCTTCGACGATTTGGTTATGATGATGACCTGGATTTGACACCTGAATATTTGTTCCCTCTGC
 TAAAAACCTCCTGATTGCACTACTGAATTAATCATCATGCATATTTATTTCTCCAAAGCACCTTTGA
 CAAGCATGATTTGGATAGAGACTGTGCTTTGTACCTGATGAGCTTAAAGATTTATTTAAAGTTTTCCCT
 TACATACCTTGGGGGCCAGATGTGAATAACACAGTTTGTACCAATGAAAGAGGCTGGATAACCTACCAGG
 GATTCCTTTCCAGTGGACGCTCACGACTTATTTAGATGTACAGCGGTGCCTGGAATATTTGGGCTATCT
 AGGCTATTCATATTGACTGAGCAAGAGTCTCAAGCTTCAGCTGTTACAGTGACAAGAGATAAAAAGATA
 GACCTGCAGAAAAACAACTCAAAGAAATGTGTTTCCAGATGTAATGTAATTGGAGTGAAAACTGTGGGA
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 ATCCTACTATGCGATTAACACTGTTTATGTATATGGACAAGAGAAACTTGTGTTGTCATGATATCTCA
 GAATCGGAATTTCTAACTGAAGCTGAAATCATTGTGATGTTGTATGCCTGGTATATGATGTCAGCAATC
 CCAAATCCTTTGAATACTGTGCCAGGATTTTTAAGCAACACTTTATGGACAGCAGATACTTTGCTTAAT
 CGTAGTCGAAAAGTCAGACCTGCATGAAGTTAAACAAGAATACAGTATTTACCTACTGATTTCTGCAGG
 AAACACAAAATGCCTCCACCACAAGCCTTCACTTGCAATACTGCTGATGCCCCAGTAAGGATATCTTTG
 TAAAATTGACAACAATGGCCATGTATCCAGAGGATCATTACAGAGACAGACTCTCCCAGACATGGGCCA
 CACTGATAGAATAGAAATTTGAGAAAACTGGGTCTTCTAAAAACTGCTTTGCACGTGACACAAGCT
 GACCTCAAGAGCTCCACGTTTTGGCTTCGAGCAAGTTTTGGTCTACTGTTTTGTCAGTTTTGGCTTTG
 CTATGTACAAAGCATTATTGAAACAGCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238712 representing NM_001288758
 Red=Cloning site Green=Tags(s)

METILPIMNQYTEIETCVECSAKNLKNISELFYYAQAVLHPTGPLYCPEEKEMKPACIKALTRIFKISD
 QDNDGTLNDAELNFFQRICFNTP LAPQALEDKVNVVRKHISDGVADSL TLKGF LFLH LFIQRGRHETT
 WTVLRRFGYDDDLDL TPEYLFLLKIPPDCTTELNHAYLFLQSTFDKHDLD RDCALSPDELKDLFKVFP
 YIPWGPVNNVTCTNERGWITYQGFLSQWTL TTYLDVQRCL EYLGYL GYSILTEQESQASVTVTRDKKI
 DLQKKQTORNVFRCNVIGVKNCGKSGVLQALLGRNLMRQKKIREDHKSYYAINTVYVYGQEKYLLLDHDS
 ESEFLTEAEIICDVVCLVYDVSNPKSFEYCARIKQHFMDSRIPCLIVAAKSDLHEVKQEYSISPTDFCR
 KHKMPPPQAFTCNTADAPSKDIFVKLTTMAMPEDHYRDRLSRDMGHTDRIENLRKIWVFLKTALHVTQA
 DLKSSTFWLRASFGATVFAVLGFAMYKALLKQR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

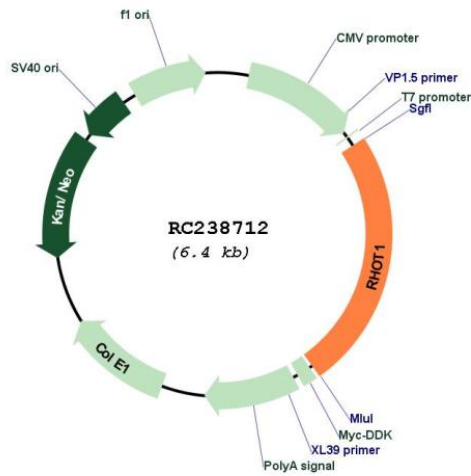
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001288758
ORF Size:	1569 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:	<ol style="list-style-type: none">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_001288758.1 , NP_001275687.1
RefSeq Size:	3360 bp
RefSeq ORF:	1572 bp
Locus ID:	55288
UniProt ID:	Q8IXI2
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
MW:	60.9 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]