

Product datasheet for **RG238712**

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:	TurboGFP
Symbol:	MIRO1
Synonyms:	ARHT1; MIRO-1; MIRO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238712 representing NM_001288758.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGACCATCCTTCTATTATGAACCAAGTATACAGAAATAGAAACCTGTGTGGAGTGTTCAGCGAAA
AACCTGAAGAACATATCAGAGCTCTTTTATTACGCACAGAAAGCTGTTCTTCATCTACAGGGCCCTG
TACTGCCAGAGGAGAAGGAGATGAAACCAAGCTTGATAAAAGCCCTTACTCGTATATTTAAATATCT
GATCAAGATAATGATGGTACTCTCAATGATGCTGAACTCAACTCTTTTCAGAGGATTTGTTTCAACACT
CCATTAGCTCCTCAAGCTCTGGAGGATGTCAAGAATGTAGTCAGAAAACATATAAGTGATGGTGTGGCT
GACAGTGGGTTGACCCTGAAAGGTTTTCTCTTTTACACACACTTTTTATCCAGAGAGGGAGACACGAA
ACTACTGGACTGTGCTTCGACGATTTGGTTATGATGATGACCTGGATTTGACACCTGAATATTTGTTT
CCCCTGCTGAAAATACCTCCTGATTGCACTACTGAATTAATCATCATGCATATTTATTTCTCAAAGC
ACCTTTGACAAGCATGATTTGGATAGAGACTGTGCTTTGTACCTGATGAGCTTAAAGATTTATTTAAA
GTTTTCCCTTACATACCTTGGGGGCCAGATGTGAATAACACAGTTTGTACCAATGAAAGAGGCTGGATA
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GATAAAAAGATAGACCTGCAGAAAAACAACTCAAAGAAATGTGTTTCAGATGTAATGTAATGGAGTG
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CGTGAAGATCATAAATCTACTATGCGATTAACACTGTTTATGTATATGGACAAGAGAAATACTTGTG
TTGCATGATATCTCAGAATCGGAATTTCTAACTGAAGTGAATCATTGTGATGTTGTATGCCTGGTA
TATGATGTCAGCAATCCAAATCCTTTGAATACTGTGCCAGGATTTTTAAGCAACTTTTATGGACAGC
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CCTACTGATTTTGCAGGAAACACAAAATGCCTCCACCACAAGCCTTCACTTGCAATACTGCTGATGCC
CCCAGTAAGGATATCTTTGTTAAATTGACAACAATGGCCATGTATCCAGAGGATCATTACAGAGACAGA
CTCTCCCAGACATGGGCCACACTGATAGAATAGAGAATTTGAGAAAAATCTGGGCTTTTCTAAAAACT
GCTTTGCACGTGACACAAGCTGACCTCAAGAGCTCCACGTTTTGGCTTCGAGCAAGTTTTGGTGCTACT
GTTTTGCAGTTTTGGGCTTTGCTATGTACAAAGCATTATTGAAACAGCGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238712
 Blue=ORF Red=Cloning site Green=Tag(s)

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METILPIMNQYTEIETCVECSAKNLKNISELFYYAQKAVLHPTGPLYCPEEKEMKPACIKALTRIFKIS
DQDNDGTLNDAELNFFQRICFNTP LAPQALEDVKNVVRKHI SDGVADSLTLKGFLLHTLFIQRGRHE
TTWTVLRRFGYDDDLDL TPEYLFPLKIPDCTELNHAYLFLQSTFDKHDLDRCALSPDELKDLFK
VFPYIPWGPDVNNTVCTNERGWITYQGFLSQWLT TYLDVQRCL EYLYL GYLSILTEQESQASAVTVTR
DKKIDLQKKQTQRNVFR CNVIGVKNCGKSGVLQALLGRNLMRQKKIREDHKSYYAINTVYVYGQEKYLL
LHDI SESEFLTEAEIICDVVCLVYDVSNPKSFEYCARIFKQHFMDSRIPCLIVA AKSDLHEVKQEYSIS
PTDFCRKHKMPPPPQAF TCNTADAPSKDIFVKLTTMAMPEDHYDRDLSRDMGHTDRIENLRKIWVFLKT
ALHVTQADLKSSTFWLRASFGATVFAVLGFAMYKALLKQR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDL DGSFTRTFLSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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```

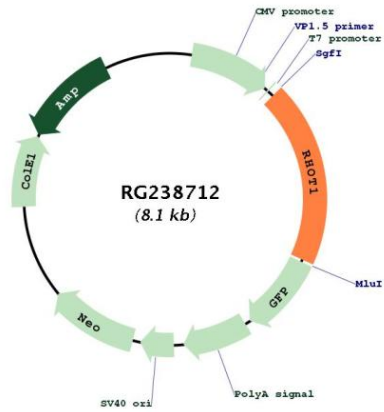
Restriction Sites:

SgfI-MluI

Cloning Scheme:


- 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).
- 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]

Product images:



Circular map for RG238712