

Product datasheet for **SC111328**

MIRO1 (RHOT1) (NM_018307) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIRO1 (RHOT1) (NM_018307) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIRO1
Synonyms:	ARHT1; MIRO-1; MIRO1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018307, the custom clone sequence may differ by one or more nucleotides

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ATGAAGAAAGACGTGCGGATCCTGCTGGTGGGAGAACCTAGAGTTGGGAAGACATCACTGATTATGTCTC
TGGTCAGTGAAGAATTTCCAGAAGAGGTTCTCCCGGGCAGAAGAAATCACCATTCAGCTGATGTCAC
CCCAGAGAGAGTTCCAACACACATTGTAGATTACTCAGAAGCAGAACAGAGTGATGAACAACTTCATCAA
GAAATATCTCAGGCTAATGTCATCTGTATAGTGTATGCCGTTAAACAACAAGCATTCTATTGATAAGGTAA
CAAGTCGATGGATTCTCTCATAAATGAAAGAACAGACAAAGACAGCAGGCTGCCTTTAATATTGTTGG
GAACAAATCTGATCTGGTGAATATAGTAGTATGGAGACCATCCTTCCTATTATGAACCAGTATACAGAA
ATAGAAACCTGTGTGGAGTGTTCAGCGAAAAACCTGAAGAACATATCAGAGCTCTTTTATTACGCACAGA
AAGCTGTTCTTCATCCTACAGGGCCCCTGTACTGCCAGAGGAGAAGGAGATGAAACCAGCTTGATAAA
AGCCCTTACTCGTATATTTAAAAATCTGATCAAGATAATGATGGTACTCTCAATGATGCTGAACCTCAAC
TTCTTTCAGAGGATTTGTTTCAACACTCCATTAGCTCCTCAAGCTCTGGAGGATGTCAAGAATGTAGTCA
GAAAACATATAAGTGATGGTGTGGCTGACAGTGGGTTGACCCTGAAAGGTTTTCTCTTTTACACACACT
TTTTATCCAGAGAGGGAGACACGAAACTACTTGGACTGTCTTCGACGATTTGGTTATGATGATGACCTG
GATTTGACACCTGAATATTTGTTCCCCCTGCTGAAAATACCTCCTGATTGCACTACTGAATTAATCATC
ATGCATATTTATTTCTCCAAAGCACCTTTGACAAGCATGATTTGGATAGAGACTGTGCTTTGTCACCTGA
TGAGCTTAAAGATTTATTTAAAGTTTTCCCTTACATACCTTGGGGGCCAGATGTGAATAACACAGTTTGT
ACCAATGAAAGAGGCTGGATAACCTACCAGGGATTCTTTCCAGTGGACGCTCACGACTTATTTAGATG
TACAGCGGTGCCTGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAAGCTTC
AGCTGTTACAGTGACAAGAGATAAAAAGATAGACCTGCAGAAAAACAACCTCAAAGAAATGTGTTTCTG
GTAATGTAATTGGAGTGAAAAACTGTGGGAAAGTGGAGTTCTTCAGGCTCTTTTGGAAAGAACTTAA
TGAGGCAGAAGAAAATTCGTGAAGATCATAAATCCTACTATGCGATTAACACTGTTTATGTATATGGACA
AGAGAAATACTTGTGTTGCATGATATCTCAGAATCGGAATTTCTAACTGAAGCTGAAATCATTTGTGAT
GTTGTATGCCTGGTATATGATGTCAGCAATCCCAAATCCTTTGAATACTGTGCCAGGATTTTAAAGCAAC
ACTTTATGGACAGCAGAAATACCTTGCTTAACTCGTAGCTGCAAAGTCAGACCTGCATGAAGTTAAACAAGA
ATACAGTATTTACCTACTGATTTCTGCAGGAAACACAAAATGCCTCCACCACAAGCCTTCACTTGAAT
ACTGCTGATGCCCCAGTAAGGATATCTTTGTTAAATTGACAACAATGGCCATGTATCCGCACGTGACAC
AAGCTGACCTCAAGAGCTCCACGTTTTGGCTTCGAGCAAGTTTTGGTGTACTGTTTTTGCAGTTTTGG
CTTTGCTATGTACAAAGCATTATTGAAACAGCGATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018307 unedited

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ATATTTGTATACGACTTACTATAGGGCGCCGCAATTCGGCACGAGGATAAATGAAAGA
CAGACAAAAGACGAGGCTGCCTTTATATTGGTTGGGAACAAATCTGATCTGGTGAATAT
AGTAGTATGGAGACCATCCTTCTATTATGAACCAGTATACAGAAATAGAAACCTGTGTG
GAGTGTTTCAGCGAAAAACCTGAAGAACATATCAGAGCTCTTTTATTACGCACAGAAAGCT
GTTCTTCACTCCTACAGGGCCCCTGTACTGCCAGAGGAGAAGGAGATGAAACCAGCTTGT
ATAAAAGCCCTTACTCGTATATTTAAAAATCTGATCAAGATAATGATGGTACTCTCAAT
GATGCTGAACTCAACTTCTTTCAGAGGATTTGTTTCAACACTCCATTAGCTCCTCAAGCT
CTGGAGGATGTCAAGAATGTAGTCAGAAAACATATAAGTGATGGTGTGGCTGACAGTGGG
TTGACCCTGAAAGGTTTTCTCTTTTACACACACTTTTTATCCAGAGAGGGAGACACGAA
ACTACTTGGACTGTGCTTCGACGATTTGGTTATGATGATGACCTGGATTTGACACCTGAA
TATTTGTTCCCCCTGCTGAAAATACCTCCTGATTGCACTACTGAATTAATCATCATGCA
TATTTATTTCTCCAAAGCACCTTTGACAAGCATGATTTGGATAGAGACTGTGCTTTGTCA
CCTGATGAGCTTAAAGATTTATTTAAAGTTTTCCCTTACATACCTTNGGGCCAGATGTG
AATAACACAGTTTCGTACCACATGAAGAGGCTGGATAACCTACCAGGATTCCTTTCCCAT
GGACGCTCCGACTTATTTANAGTACAGCGGTGCCTGGNATATTGGCTATCTAGGCTATTC
ACTATGACTGAGCAAGATCTCAAGCTCAGCTGTTACGTGACCAGAGAAAAAGATAGCACT
GCAGANAACA
    
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Restriction Sites:	NotI-NotI
ACCN:	NM_018307
Insert Size:	2790 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:	<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_018307.1 , NP_060777.1
RefSeq Size:	3140 bp
RefSeq ORF:	1455 bp
Locus ID:	55288
UniProt ID:	Q8IXI2
Cytogenetics:	17q11.2
Domains:	EFh, RAS, RHO, RAB
Protein Families:	Transmembrane
Gene Summary:	<p>Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two consecutive in-frame exons in the 3' coding region, compared to variant 1. It encodes isoform 3, which is shorter than isoform 1.</p>