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Product datasheet for SC337095

MIRO1 (RHOT1) (NM_001288754) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MIRO1
Synonyms:	ARHT1; MIRO-1; MIRO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC337095 representing NM_001288754.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAAAGACGTGCGGATCCTGCTGGTGGGAGAACCTAGAGTTGGGAAGACATCACTGATTATGTCT
CTGGTCAGTGAAGAATTTCCAGAAGAGGTTCCTCCCCGGGCAGAAGAAATCACCATTCCAGCTGATGTC
ACCCCAGAGAGAGTTCCAACACACATTGTAGATTACTCAGAAGCAGAACAGAGTGATGAACAACTTCAT
CAAGAAATATCTCAGGCTAATGTCATCTGTATAGTGTATGCCGTTAACAACAAGCATTCTATTGATAAG
GTAACAAGTCGATGGATTCCTCTCATAAATGAAAGAACAGACAAAGACAGCAGGCTGCCTTTAATATTG
GTTGGGAACAAATCTGATCTGGTGGAATATAGTAGTATGGAGACCATCCTTCCTATTATGAACCAGTAT
ACAGAAATAGAAACCTGTGTGGAGTGTTCAGCGAAAAACCTGAAGAACATATCAGAGCTCTTTTATTAC
GCACAGAAAGCTGTTCTTCATCCTACAGGGCCCCTGTACTGCCCAGAGGAGAAGGAGATGAAACCAGCT
TGTATAAAAGCCCTTACTCGTATATTTAAAATATCTGATCAAGATAATGATGGTACTCTCAATGATGCT
GAACTCAACTTCTTTCAGAGGATTTGTTTCAACACTCCATTAGCTCCTCAAGCTCTGGAGGATGTCAAG
AATGTAGTCAGAAAACATATAAGTGATGGTGTGGCTGACAGTGGGTTGACCCTGAAAGGTTTTCTCTTT
TTACACACACTTTTTATCCAGAGAGGGAGACACGAAACTACTTGGACTGTGCTTCGACGATTTGGTTAT
GATGATGACCTGGATTTGACACCTGAATATTTGTTCCCCCTGCTGAAAATACCTCCTGATTGCACTACT
GAATTAAATCATCATGCATATTTATTTCTCCAAAGCACCTTTGACAAGCATGATTTGGATAGAGACTGT
GCTTTGTCACCTGATGAGCTTAAAGATTTATTTAAAGTTTTCCCTTACATACCTTGGGGGCCAGATGTG
AATAACACAGTTTGTACCAATGAAAGAGGCTGGATAACCTACCAGGGATTCCTTTCCCAGTGGACGCTC
ACGACTTATTTAGATGTACAGCGGTGCCTGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAG
CAAGAGTCTCAAGCTTCAGCTGTTACAGTGACAAGAGATAAAAAGATAGACCTGCAGAAAAAACAAACT
CAAAGAAATGTGTTCAGATGTAATGTAATTGGAGTGAAAAACTGTGGGAAAAGTGGAGTTCTTCAGGCT
CTTCTTGGAAGAAACTTAATGAGGCAGAAGAAAATTCGTGAAGATCATAAATCCTACTATGCGATTAAC
ACTGTTTATGTATATGGACAAGAGAAATACTTGTTGTTGCATGATATCTCAGAATCGGAATTTCTAACT
GAAGCTGAAATCATTTGTGATGTTGTATGCCTGGTATATGATGTCAGCAATCCCAAATCCTTTGAATAC
TGTGCCAGGATTTTTAAGCAACACTTTATGGACAGCAGAATACCTTGCTTAATCGTAGCTGCAAAGTCA
GACCTGCATGAAGTTAAACAAGAATACAGTATTTCACCTACTGATTTCTGCAGGAAACACAAAATGCCT
CCACCACAAGCCTTCACTTGCAATACTGCTGATGCCCCCAGTAAGGATATCTTTGTTAAATTGACAACA
ATGGCCATGTATCCAGAGGATCATTACAGAGACAGACTCTCCCGAGACATGGGCCACACTGATAGAATA
GAGAATTTGAGAAAAATCTGGGTCTTTCTAAAAACTGCTTTGCACGTGACACAAGCTGACCTCAAGAGC
TCCACGTTTTGGCTTCGAGCAAGTTTTGGTGCTACTGTTTTTGCAGTTTTGGGCTTTGCTATGTACAAA
GCATTATTGAAACAGCGATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001288754

Insert Size: 1953 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001288754.1
RefSeq Size:	3236 bp
RefSeq ORF:	1953 bp
Locus ID:	55288
UniProt ID:	Q8IXI2
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
MW:	74.8 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] Transcript Variant: This variant (5) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 5, which is shorter than isoform 1.