

Product datasheet for **RG204503**

MITD1 (NM_138798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MITD1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204503 representing NM_138798
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAGTCCGGCTGAGGCAGGACCCGCAGAGCACAGCTGCAGCCACTGTGCTAAAGCGGGCAGTAG
AACTAGATTCGGAGTCGCGGTATCCGAGGCTCTGGTGTGTTACCAAGAGGGGATTGATCTGCTCTGCA
GGTTCTGAAAGGTACCAAGATAATACTAAGAGATGTAATCTCAGAGAAAAATTTCCAAATACATGGAC
AGAGCGGAAAAACATAAAGAAGTACTTGACCAAGAAAAAGAAGATGGAAAAATACACAAGCAAAATAAAA
TAGAAGAGAATGCAACAGGTTTCAGTTATGAGTCACCTTTTCGCGAATACCTTAATGAGACAGTTACAGA
AGTTTGGATAGAAGATCCTTATATTAGACATACTCATCAGCTGTATAACTTTCTTCGATTTTGTGAGATG
CTTATTAAGAGACCATGTAAAGTAAAACTATTACCTTCTCACCTCTCTGGATGAAGGCATTGAGCAAG
TGCAGCAAAGTAGAGGCCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCA
ATACTCTTCTTCAATACATGACCGAGAAATTAGGTTCAACAATGGATGGATGATTAAGATTGGAAGGGGA
CTTGATTATTTTAAGAAACACAGAGTCGTTTTCCCTTGGATATTGTGATTTTGATTAAAGACCATGTC
ATGAAACAACAGTAGACATTTTTCATAAGAAGCATACAAAAATATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204503 representing NM_138798
Red=Cloning site Green=Tags(s)

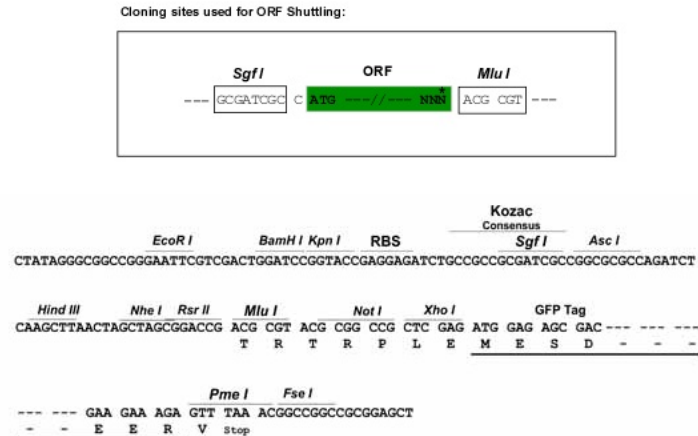
MAKSGLRQDPQSTAAATVLKRAVELDSESRYQALVCYQEGIDLLLQVLKGTDKNTKRCNLREKISKYMD
RAENIKKYLDQEKEDGKYHKQIKIEENATGFSYESLFREYLNETHVWIEDPYIRHQLYNFLRFCM
LIKRPCKVKTIHLLTSLDEGIEQVQSRGLQEIEESLRSHGVLLVQYSSSIHREIRFNGWMIKIGRG
LDYFKPKQSRFSLGYCDFLRPCHETTVDIFHKHHTKNI

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138798

ORF Size: 747 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:

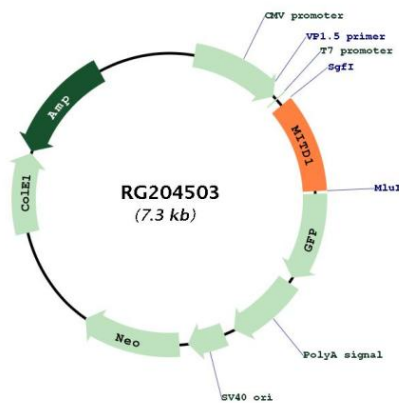
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_138798.3
RefSeq Size: 963 bp
RefSeq ORF: 750 bp
Locus ID: 129531
UniProt ID: Q8WV92
Cytogenetics: 2q11.2

Gene Summary: Abscission, the separation of daughter cells at the end of cytokinesis, is effected by endosomal sorting complexes required for transport III (ESCRT-III). The protein encoded by this gene functions as a homodimer, with the N-termini binding to a subset of ESCRT-III subunits and the C-termini binding to membranes. The encoded protein regulates ESCRT-III activity and is required for proper cytokinesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG204503