

Product datasheet for **RG224284**

MIA2 (NM_054024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIA2 (NM_054024) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIA2
Synonyms:	CTAGE5; MEA6; MGEA; MGEA6; MGEA11; TALI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG224284 representing NM_054024
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAAAATTTGGCGTTCACAGAATCCTTCTCTGGCTATTTCTCTGACAAAGTGTCTGGAGAGTACAA
AACTGCTGGCAGACCTTAAAAAATGTGGTGACTTGAATGTGAAGCTTTAATAAACAGAGTCTCAGCCAT
GAGAGATTATAGAGGACCTGACTGCCGATACCTGAACTTCACTAAGGGAGAAGAGATATCTGTTTATGTT
AACTTGCAGGAGAAAGGAAGATTTGTGGCAGGAAGTAAAGGAAAGGAGTTTGGATATTTCCAGAG
ATGCAGTCCAGATTGAAGAGGTGTTTATCTGAGGAAATTCAGATGTCAACGAAAGAATCTGACTTTCT
TTGTCTTCTGGAGTAAGTTACACATTTGACAATGAAGATAGTGAATTAACGGTGATTATGGTGAAAAAT
ATATATCCTTATGAAGAAGATAAAGATGAAAAATCTAGTATATATGAAAGTGATTTTCAGATAGAACCTG
GATTTTATGCAACTTATGAAAGTACTTTGTTTGAAGACCAAGTCCAGCATTAGAGGCTCCTGAAGATAT
CGGAAGTACCAGTGAATCAAAGACTGGGAAGAAGTAGTTGTTGAAAGTATGGAACAGGATCGTATTCCA
GAAGTGATGTCCACCATCTTCAGCTGTGTCTGGAGTCAAAGAATGGTTTGGATTGGGAGGAGAACAAG
CTGAAGAGAAGGCTTTTGAATCAGTTATTGAACCTGTACAAGAAAGCTCATTTCGGAGTAGAAAAATAGC
AGTGGAAGATGAGAATGACCTAGAGGAATTAATAATGGTGAGCCTCAAACAGAACATCAGCAAGAATCT
GAATCAGAAATGATTTCAGTGCCAAAGACACAGTCTGAACTAGCATCTGAGTCAGAGCACATTCCCAAC
CTCAATCCACTGGTTGGTTTGGTGGAGGATTTACAAGTATTTAGGTTTTGGAGATGAGGATACAGGGCT
TGAATTAATAGCTGAAGAAAGCAATCCACCCTACAAGTTTTCCCAATCCATATCATCTGATAAAGAA
GCCACAGTCCATGTACAGAAATATTAACAGAAAAAAGACACAATCACTAATGATAGCTTGAGTCTCA
AGCCAAGTTGGTTTGGTTTTGGTTTTGCTATACTAGGCTTTGCATATGCCAAGGAAGATAAAATATGTT
AGATGACAGGAAAAATGAAGAAGATGGTGGGCAGATGAACATGAACATCCTCTAACAAGTGAATTAGAC
CCTGAAAAAGAACAAGAAATAGAAACGATAAAAAATATAGAAACAGAAGTCAAATAGACAAGAAACCAG
TCTCAGAAAAACAGACGAATCTGATACTATACCATATTTGAAAAAGTCTTGTATAATTTTGACAACCC
TTGGAACCTCCAGAACATTCCAAAGGAAACAGAATTGCCATTTCCCAACAGATACTGGATCAAAAATAAT
GTAATTGAAAAATGAAGAACTGGAGAATTTCCATTGATAATTATCCACAGATAATACAAAAGTTATGA
TATTCAAAAGTTCATACAGTCTGTCAGATATGGTCTCTAACATAGAGTTACCTACGAGAATTCACGAAGA
AGTATATTTTGAACCCTCATCTTCTAAAGATAGTGATGAAAATTCGAAACCATCAGTAGACACCGAAGGG
CCTGCTCTGGTGGAGATAGACAGATCTGTGAAAAATACCCTGCTAAATAGTCAGATGGTTTCAACTGATA
ACTCTTTGCTTCTCAAATTATATTTCTCAGAAAGAAGATGCTTCTGAGTTTCAGATTCTGAAATACTT
ATTCCAAATTGATGTTTATGATTTTCATGAATTCGCATTTTACCAATTGTAATTTTACAGAAAGGGTA
AGTTTGCCTTTTAAACCTTTTGAATAATTTTACCTATTTTGTAAATATAAGAGTGGCTACAAAATATG
TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224284 representing NM_054024
 Red=Cloning site Green=Tags(s)

MAKFGVHRILLLAIISLTKCLESTKLLADLKKCGDLECEALINRVSAMRDYRGPDCRYLNFTKGEEISVYV
 KLAGEREDLWAGSKGKEFGYFPRDAVQIEEVFISEEIQMSTKESDFLCLLGVSYTFDNESELNGDYGEN
 IYPYEEKDEKSSIIYESDFQIEPGFYATYESTLTFEDQVPALEAPEDIGSTSESKDWEVVESMEQDRIP
 EVHVPPSSAVSGVKEWFLGGEQAEKAFESVIEPVQESSFRSRKIAVEDENDLEELNNGEPQTEHQES
 ESEIDSVPKTQSELASESEHIPPQSTGWFGGGFTSYLGFGEDEDTGLELIAEESNPPLQDFPNSISSDKE
 ATPVCTEILTTEKDTITNDSLKPSWDFDFGFAILGFAYAKEDKIMLDDRKNEEDGGADEHEHPLTSELD
 PEKEQEIETIKIETEDQIDKPKVSEKTDSDTIPYLKKFLYNFDPWNFQNIPIKETELPFKQILDQNN
 VIENEETGEFSIDNYPTDNTKVMIFKSSYSLSDMVSNIELPTRIHEEVYFEPSSSKDSDENSKPSVDTEG
 PALVEIDRSVENTLLNSQMVSTDNSLSSQNYISQKEDASEFQILKYLQIDVYDFMNSAFSPIVILTERV
 SLPFKPFMAILPILLNIRVATKYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_054024

ORF Size: 1962 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.

RefSeq: [NM_054024.4](#)

RefSeq Size: 2351 bp

RefSeq ORF: 1965 bp

Locus ID: 4253

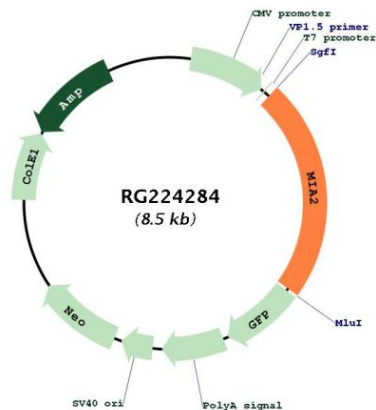
UniProt ID: [Q96PC5](#)

Cytogenetics: 14q21.1

Protein Families: Transmembrane

Gene Summary: This gene encodes s receptor in the endoplasmic reticulum, which plays a role in the export of large pre-chylomicrons and pre-very low density lipoproteins (pre-VLDLs). Three major classes of transcripts are generated from this gene- melanoma inhibitory activity 2-specific transcripts, cTAGE family member 5-specific transcripts and transcripts that include exons from both these transcript species (TANGO1-like or TALI). Additionally, alternative splicing in these transcripts results in multiple transcript variants encoding multiple isoforms. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG224284