

Product datasheet for **RC224284**

MIA2 (NM_054024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIA2 (NM_054024) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIA2
Synonyms:	CTAGE5; MEA6; MGEA; MGEA6; MGEA11; TALI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224284 representing NM_054024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAAATTTGGCGTTACAGAAATCCTTCTCTGGCTATTTCTCTGACAAAGTGTCTGGAGAGTACAA
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 TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC224284 representing NM_054024
Red=Cloning site Green=Tags(s)

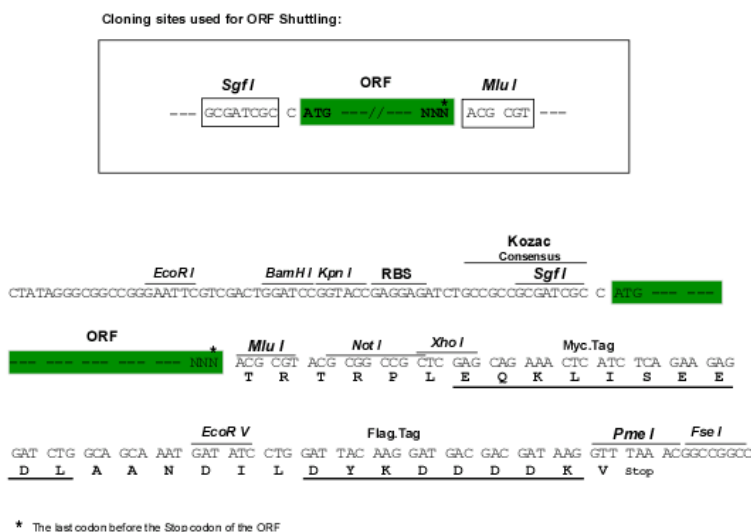
MAKFGVHRILLLAISLTKCLESTKLLADLKKCGDLECEALINRVSAMRDYRGPDCRYLNFTKGEEISVYV
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 ATPVPCTEILTEKKDTITNDSLKPSWDFGFAILGFAYAKEDKIMLDDRKNEEDGGADEHEHPLTSELD
 PEKEQEIETIKIETEDQIDKKPVSEKTDSDTIPYLKKFLYNFDPWNFQNIPIKETELPFPKQILDQNN
 VIENEETGEFSIDNYPTDNTKVMIFKSSYSLSDMVSNIELPTRIHEEVYFEPSSSKSDSDENSKPSVDTEG
 PALVEIDRSVENTLLNSQMVSTDNSLSSQNYISQKEDASEFQILKYLQIDVYDFMNSAFSPIVILTERV
 SLFPKPFAILPILLNIRVATKYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2930_c10.zip

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](#)

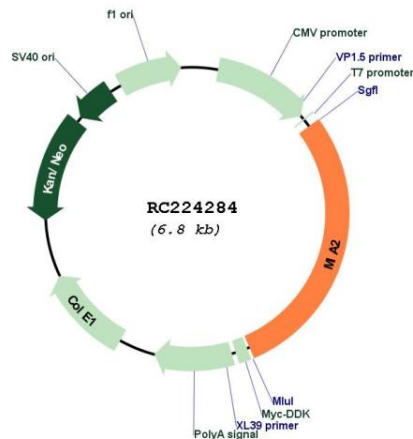
Cytogenetics: 14q21.1

Protein Families: Transmembrane

MW: 73.9 kDa

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 RC224284