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Product datasheet for MG218279

Mia2 (NM_001165254) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mia2 (NM_001165254) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mia2
Synonyms:	Ctage5; D12Bwg0579e; Mea6; Mgea; Mgea6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG218279 representing NM_001165254
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATTGGAAGGTCTGGGTGAGGAGGTTGTGGCAGCATTGCCTGAAGATATGAGAGCAGACTTTAATC
CCAGTGGTTTTTCGTTGGAATTGGCAGTATGTGTGCTTTCCGTTGGACTGCTTGCCGTGGTCTTGTTTCT
GTGGCGAGGCTTCCGATCAATTCGAAGCCGATTTTATGTGGGGAGAGAAAAGAAACTTGCTCTTGAGCTT
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TTCCTCCAGTCAGAGACCCATTGTTTCCAGTGGATCCAAGGAGCCAGTTCATGAGAAGGGGCCCCTCTTT
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CCACCACTTCCTCCGTTCCCAGGGAGAACTGTGTACGCACCGAGGGGCTTTCCACCTTACCTTCCCCCCA
GAGCTGGGTTCTTCCCCCCACCCCCACATCCTGAAAGTAGAAGTGAGCTCCCCCCAGACTTGATTCCGCC
TTCAAAAGAGCCTGCAGCTGACCCTCCAGAAACACAGGAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

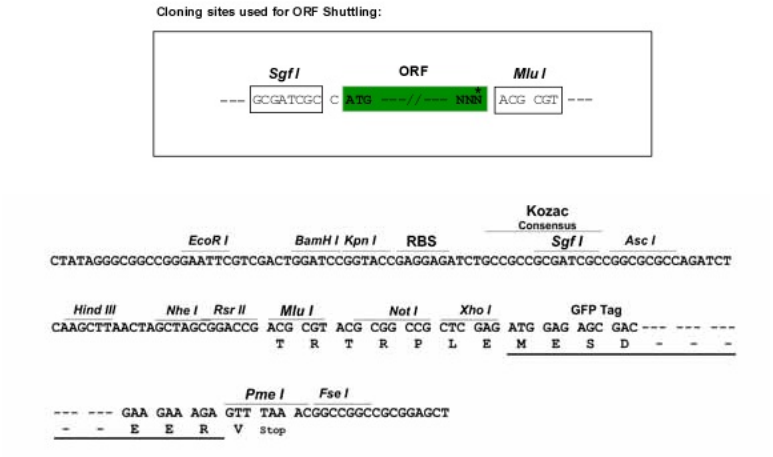
>MG218279 representing NM_001165254
Red=Cloning site Green=Tags(s)

MELEGLGEEVVAALPEDMRADFNPSGFSLELAVCVLSVGLLAVVLFLWRGFRSIRSRFYVGREKKLALEL
SALIEEKCKLLDKVSIVQKEATYENLEQSKSKLEDEILLLEEKLEEERAKHSEQDELMADISKRIQSLED
ESKSLKSQVAEAKTTFRIFEINEERLKGAIKDALNENSQLQESQKQLLQETEMMKEQVNDLDKQKVALEE
SRAQAEQALSEKESQIETLVTSLLKMKDWAAVLGEADDGNLDLDMKSGLENTAALDNQPKGALKKLIYAA
KLNASLKALEGERNQVYTQLSEVDQVKEDLTEHIKSLESKQASLQSEKTEFESESQKLQQKLKVITELYQ
ENEMKLHRKLTVEENYRLEKEEKLSKVDEKISHATEELETCRQRAKDLEEELERTIHSYQGQVISHEKKA
HDNWLAARTLERNLNDLRKENAHNRQKLTETEFKFELLEKDPYALDVPNTAFGREHSPYGPSPLGRPPSE
TRAFLSPPTLLEGPLRLSPLLPGGGGRGSRGPENLLDHQMNTERGESSYDRLSDAPRAPSDRSLSPPWEQ
DRRMTAHPPPGQPYSDPALQRQDRFYPNSGRLSGPAELRSYNMPSLDKVDGPVPSEMESSGNGTKDNLGN
SNVPDSPIPAECEAAGRGFFPPPFPPVRDPLFPVDPRSQFMRRGPSFPPPPPGSIYAAPRDYFPPRDFPG
PPLPPFPGRTVYAPRGFPPYLPPRAGFFPPPPHPESRSELPPDLIPPSKEPAADPPETQEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165254

ORF Size: 2283 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_001165254.3

RefSeq Size: 2831 bp

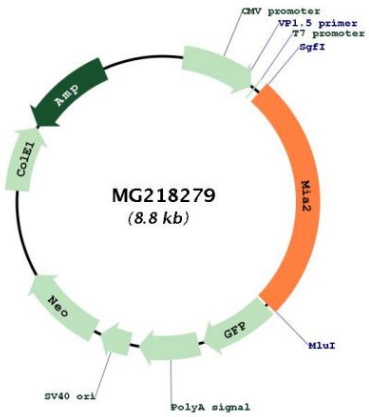
RefSeq ORF: 2286 bp

Locus ID: 338320

Cytogenetics: 12 C1

Gene Summary: This gene encodes a protein that is involved in endoplasmic reticulum-to-Golgi trafficking and regulation of cholesterol metabolism. 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. Additionally, alternative splicing in these transcripts results in multiple transcript variants encoding diverse isoforms. A mutation in this gene (couch-potato or cpto) may result in low levels of plasma cholesterol and triglycerides. [provided by RefSeq, Sep 2016]

Product images:



Circular map for MG218279