

Product datasheet for **MG219873**

Mia2 (NM_177321) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mia2 (NM_177321) 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)



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ORF Nucleotide Sequence:

>MG219873 representing NM_177321
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAAGTCAGTGTTCAAAGAATCCTTCTTTTGGTTGTTTCTCTGGCCAAGTGTCTGGAGGGTACAA
 AGTTGCTGGCACACCTTAAGAAGTGTGGTACTTGAATGTGAACTTTGATCAGCCGAGTCTTAGCCCT
 GAGAGATTACACAGGACCCGACTGTCGGTACCTGAACTTCACTACGGGAGAAGAGATATCTGTTTATGTT
 AAAGTTGGAGGAGACAGAGAAGATTTGTGGCAGGAAGCAAAGGAAAAGACTTTGGATTTTTCCAGAG
 ATGCAGTCGAGATTGAAGAGGTGTTTATCTGAAGAAGTCGAAATGCCAACTAAATCTGACTTTCTTTG
 TCTTCTGGAGAAGGCTACATATTTGGAAGTGAACAGAGTGAATTAACAGTGAAGATGATGAAGAACAT
 ATGTACCCATATGAAAAGATGAAGACCAAACTATAATATATATGAGGGTGATTTTCAGCCAGAACCTG
 ACTTATATGCAGCTGCTGAAGGGACTTTGTTGGAGGACCAAAATCCAGCATCCGAAGCTCCTGATGATT
 CCGATTCTCCAGTGAGTGAAGGCTGGGAAGGGGCTGGAAGCCAGGGTGGAGGGGAGCAGGATTACACT
 GCAGACTCTGACCAAGACTTGCCATCCCTCAGTAAGCCAGAAAGCAAGGATGGTTTGGCCCTGGGGACAG
 AAGAAGCTGAAGAGAAGTTTTTCGAATCAGATACTGAACCTACACAAGAATTAGCACTAGAAGAGGAGAG
 TGACCTGGAGAAATTACACAGTGGCGAACCCCAAGTGAAGTCTGAGCAAGAGCCAAAATCAGAGACATTA
 GAATTCAGTTCAGTGCAGGACGAAGAGTATGAGCTAGAATCTGAGACGGAGAGTATCCTCAAACCCCAAG
 CTTCTGGCTGGTTTGGTGAAGGCTTACAAGTTATTTAGGTTTGGAAATGAGGAGGCAGGACTTGAGTT
 ATGTCCAAAGAAAGCAATCCACCATTACAAGATTTCCAGCTCTGTTCCACCAGATGAAGAAGTCCCG
 GCTCCATGCAGAGAAATCTCAACAGACAAGGAAGTGCAGTCAATATGATAGCTCGGTTCTCAGTCCAA
 GCTGGTTTTACTATGGATTTGGTATGCTAGGCTTACAATGCGGACGAAAGACAACATTGTTTCAGACAA
 AGGAGAAAATGAAGATGGTGAAGTAGATAACCTCAAACATCCTATAGGAAGTGACTTTGACCCTGAAAAG
 GAACAAGAAAGGAAAATAGTAACTGTGGAACCGAAGACCAGGCAGGTACAGAAAGCGTCTTGGAGAAGA
 CAGACGAGTCTGGTTCCATGCAGTATCTGAAGAAGTCTTTGATAATCCTTGGGGCTTCCAGAGTCTCC
 AGAGGACACAGAATTACCATTTTCCAAAAGATGCTGGATCAAGATGATATAGTAGAAAATGACAAAATT
 GAAGAATTTCCACTGAAAATTTCCCACAGGTAGCATGAAAGACCCCGTATGCTGGCGAGCAGATACG
 TTCTGTCAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219873 representing NM_177321
 Red=Cloning site Green=Tags(s)

MAEVSQRIILLVSLAKCLEGTKLLAHLKKGCDLECE TLISRVLALRDYTGPDCRYLNFTTGEEISVYV
 KLGGDREDLWAGSKGKDFGFFPRDAVEIEEVFISEEVEMPTKSDFLCLLGEYIFGSEQSELNSEDDEEH
 MYPYEKDEDQNYNIYEGDFQPEPDLAAAEGTLLEDQIPASEAPDDFRFSEWKAWEGAGSQGGGEQDYT
 ADSDQDLPSLSKPERQGWFG LGTEEAEEKVFESDTEPTQELALEEESDLEKLHSGEPQVELEQEPKSETL
 EFSSVPDEEYELESETESILKPQASGWFG EGLT SYLGFNGEEAGLELLSKE SNPPLQDIPSSVPPDEEVP
 APCREISTDKEDAVINDSSVLSPSWFYFGMLGFTNADEDNIVSDKGENEDGEVDNLKHPIGSDFDPEK
 EQERKIVTVETEDQAGTESVLEKTDES GSMQYLKFFDNPWGFQSLPEDTEL PFSKMLDQDDIVENDKI
 EELSTENSPTGSMKDPVMLASRYVLSG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_177321
ORF Size:	1551 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:	<ol style="list-style-type: none">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_177321.2 , NP_796295.1
RefSeq Size:	1628 bp
RefSeq ORF:	1554 bp
Locus ID:	338320
UniProt ID:	Q91ZV0
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]