

Product datasheet for **MR216815**

Mia2 (NM_001165253) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mia2 (NM_001165253) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mia2
Synonyms:	Ctage5; D12Bwg0579e; Mea6; Mgea; Mgea6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR216815 representing NM_001165253
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGCTGGGGCGGGCGGGTTGCGCGGGCGGGTTCTGGAGCAGCTGCCTGGGTTGTGGCAG
 CATTGCCTGAAGATATGAGAGCAGACTTTAATCCAGTGGTTTTTCGTTGGAATTGGCAGTATGTGTGCT
 TTCGTTGGACTGCTTGCCTGGTCTTGTCTGTGGCAGGCTTCCGATCAATCGAAGCCGATTTTAT
 GTGGGGAGAGAAAAGAACTTGCTCTTGAGCTTCTGCACTAATTGAAGAAAAATGTAACTGCTTGACA
 AAGTCAGCATTGTTCAAAGGAGGCCACCTATGAAAATCTGGAACAATCCAAATCTAAACTGAAGATGA
 AATACTACTCCTAGAGGAAAAGCTGGAAGAAGAGCGAGCTAAACATTCTGAACAAGACGAGCTGATGGCT
 GATATTTCAAAGGATACAGTCCCTAGAAGATGAATCAAATCTCTCAAATCGCAAGTAGCTGAAGCCA
 AAACAACCTTTAGAATATTTGAAATCAATGAAGAGCGACTCAAGGGAGCAATAAAAGATGCCTTGAATGA
 AAATTCTCAGCTTCAGGAAAGCCAGAAACAGCTTTTACAGGAACTGAAATGATGAAAGAACAAGTGAAT
 GATCTCGATAAACAGAAAGTGGCATTGGAAGAGTCCAGAGCACAGGCGGAACAAGCTCTGAGTGAGAAGG
 AGAGTCAGATTGAGACTCTGGTACGAGCCTGCTAAAGATGAAGGATTGGGCTGCTGTGCTTGGAGAAGC
 AGATGATGGGAATCTGGACTTGGACATGAAGAGTGGCCTAGAAAAACTGCTGCCTTAGATAATCAGCCA
 AAGGGCGCTTTGAAGAAGCTGATTTATGCAGCTAAGTTAATGCTTCTTTAAAAGCCTTGGAAGGAGAAC
 GAAATCAAGTTTACACTCAGTTATCTGAAGTGGATCAAGTAAAAGAAGACCTTACAGAGCATATCAAAG
 TCTTGAGTCTAAACAAGCATCTTGCAGTCAGAAAAGACAGAGTTTGAAGTGAAGTGAAGTGAAGTGAAG
 CAGAACTGAAAGTATAACCGAGCTGTACCAAGAAAATGAAATGAACTTACAGGAAATTAACAGTAG
 AAGAAAATACCGATTAGAGAAAAGAAGAAAATTTCAAAGTAGATGAGAAAATCAGCCATGCGACCGA
 GGAGCTGGAGACCTGCAGGCAGCGTGCCAAGGATCTTGAAGAAGAGCTGGAGAGAACAATTCATTCTTAC
 CAGGGGCAGGTTATTTCTCATGAAAAAAGCACATGATAATTGGCTGGCAGCTCGGACTCTTGAAGAA
 ATCTCAATGATTTAAGAAAAGAAAATGCCACACAGACAAAAATTAAGTGAACAGAGTTTAAATTTGA
 ACTTTTAGAAAAGATCCTTATGCACCTGATGTTCCAAACACAGCATTGGCAGAGAGCACTCCCATAT
 GGTCCCTCACCATTGGGCCGACCTCCATCTGAAACGAGAGCTTTTCTCTCTCCTCAACTTTGTTGGAGG
 GTCCACTAAGACTCTCACCTTTGCTTCCAGGGGAGGAGGAAGAGGCTCACGAGGCCCTGAGAACCTTCT
 GGACCATCAGATGAACACTGAAAGAGGAGAGTCAAGCTATGACAGATTATCTGATGCTCCAGAGCACCT
 TCCGACAGGTCCCTGTCACCTCCGTGGGAACAAGATCGAAGGATGACAGCCATCCGCCACCAGGCCAAC
 CATATTCTGATCCAGCTTACAAAGGCAAGATCGGTTTTATCCTAATTCTGGTAGACTCTCTGGACCAGC
 AGAACTCAGAAGTTATAATATGCCTCTTTGGATAAAGTGGATGGGCCAGTACCCTCAGAAATGGAGTCC
 AGTGGAAACGGTACCAAAGATAATCTTGGTAACTCTAATGTGCCTGATTCTCCTATCCCTGCTGAATGCG
 AAGCAGCTGGCCGTGGCTTCTTCCCTCCACCCTTCTCCAGTCAGAGACCCATTGTTCCAGTGGATCC
 AAGGAGCCAGTTCATGAGAAGGGGCCCTTCTTCCCCCACCCTCCAGGAAGCATCTATGCAGCTCCT
 CGAGATTATTTCCACCAAGGGACTTCCCTGGCCACCCTTCTCCGTTCCAGGGAGAACTGTGTACG
 CACCGAGGGGCTTCCACCTTACCTTCCCCCAGAGCTGGGTTCTTCCCCCACCACATCCTGAAAG
 TAGAAGTGAGCTCCCCCAGACTTGATTCCGCCTTCAAAGAGCTGCAGCTGACCCTCCAGAAACACAG
 GAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216815 representing NM_001165253
Red=Cloning site Green=Tags(s)

MAGPGAAAGCARRVLEQLRWVVAALPEDMRADFNPSGFSLELAVCVLSVGLLAVVFLWRGFRSIRSRFY
VGREKLALELSALIEEKCKLLDKVSIVQKEATYENLEQSKSKLEDEILLLEEKLEERAKHSEQDELMA
DISKRIQSLEDESKSLKSQVAEAKTFRIFEINEERLKGAIKDALNENSQLQESQKQLLQETEMMKEQVN
DLDKQKVALEESRAQAEQALSEKESQIETLVTSLLKMKDWAAVLGEADDGNLDDLDMKSGLENTAALDNQP
KGALKKLIYAAKLNASLKALEGERNQVYTQLSEVDQVKEDLTEHIKSLESKQASLQSEKTEFESESQKLQ
QKLVITELYQENEMKLRKLTVEENYRLEKKEKLSKVDEKISHATEELETQRQAKDLEEEELERTIHSY
QGQVISHEKKAHDNWLAAARTLERNLNDRKENAHRQKL TETEFKFELLEKDPYALDVPNTAFGREHSPY
GPSPLGRPPSETRAFLSPPTLLEGPLRLSPLLPGGGGRGSRGPENLLDHQMINTERGESSYDRLSDAPRAP
SDRSLSPPEQDRRMTAHPPPGQPYSDPALQRQDRFYPNSGRLSGPAELRSYNMPSLDKVDGVPVSEMES
SGNGTKDNLGNSNVPDSPIPAEECAAGRGFPPPPFPVRDPLFPVDPRSQFMRRGSPFPPPPGSIYAAP
RDYFPPRDFPGPPLPPFPGRVTYAPRGFPPYLPFRAGFPFPPHPESRSELPPDLIPPSKEPAADPPETQ
EA

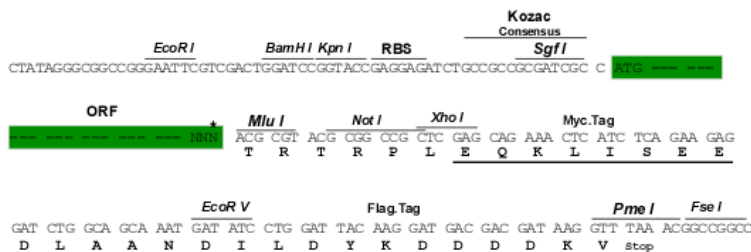
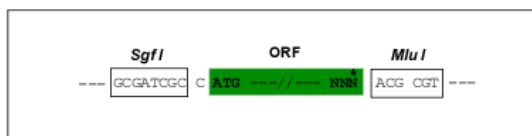
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_b07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001165253

ORF Size: 2316 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_001165253.3](#)

RefSeq Size: 2832 bp

RefSeq ORF: 2319 bp

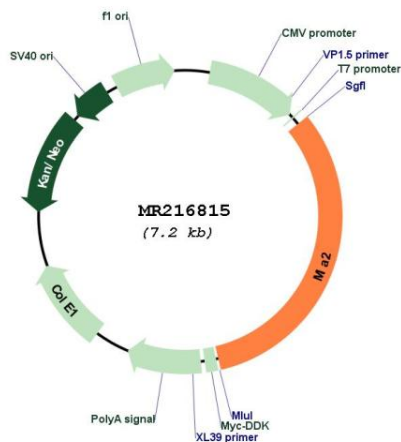
Locus ID: 338320

Cytogenetics: 12 C1

MW: 87.2 kDa

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 MR216815