

## Product datasheet for **MC205435**

### **Mia2 (NM\_146034) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mia2 (NM_146034) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mia2
Synonyms:	Ctage5; D12Bwg0579e; Mea6; Mgea; Mgea6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC026864  
TCTTTCTCAAGGATCTGAAGTAGTCAGGAGAGCTTTAGTTACATGTCCGGGTGTTTTAACATGAATGTCC  
TAGGACATGGAATTGGAAGGTCTGGGTGAGGAGTTGTGGCAGCATTGCCTGAAGATATGAGAGCAGACT  
TTAATCCCAGTGGTTTTTCGTTGGAATTGGCAGTATGTGTGCTTCCGTTGGACTGCTTGCCGTGGTCTT  
GTTTCTGTGGCGAGGCTCCGATCAATTCGAAGCCGATTTATGTGGGAGAGAAAAGAACTTGCTCTT  
AAGGCTTAGAGTCATCTTTAAAGGAGGCCAGCTTTGAGAAGGAGTCAACAGAAGCACAAAGTTTGGAGT  
TGTTGAAGGATCACAAATATCAGAGGCCACCTATGAAAATCTGGAACAATCCAAATCTAAACTTGAAGAT  
GAAATACTACTCTAGAGGAAAAGCTGGAAGAAGAGCGAGCTAAACATTCTGAACAAGACGAGCTGATGG  
CTGATATTTCAAAAAGGATACAGTCCCTAGAAGATGAATCAAAATCTCTCAAATCGCAAGTAGCTGAAGC  
CAAAACAACCTTTAGAATATTTGAAATCAATGAAGAGCGACTCAAGGGAGCAATAAAAGATGCCTTGAAT  
GAAAATCTCAGCTTCAGGAAAGCCAGAAAACAGCTTTTACAGGAACTGAAATGATGAAAGAACAAGTGA  
ATGATCTCGATAAACAGAAAGTGGCATTGGAAGAGTCCAGAGCACAGGCGGAACAAGCTCTGAGTGAGAA  
GGAGAGTCAGATTGAGACTCTGGTCACGAGCCTGCTAAAGATGAAGGATTGGGCTGCTGTGCTTGGAGAA  
GACATAGCAGATGATGGGAATCTGGACTTGACATGAAGAGTGGCCTAGAAAACACTGCTGCCTTAGATA  
ATCAGCCAAAGGCGCTTTGAAGAAGCTGATTTATGCAGCTAAGTTAAATGCTTCTTTAAAGCCTTGGA  
AGGAGAACGAAATCAAGTTTACACTCAGTTATCTGAAGTGGATCAAGTAAAGAAGACCTTACAGAGCAT  
ATCAAAAGTCTTGAGTCTAAACAAGCATCTTTCAGTCAAGAAAAGACAGAGTTTGAAGTGAAGGCCAGA  
AACTTCAGCAGAACTGAAAGTGATAACCGAGCTGTACCAAGAAAATGAAATGAACTTCACAGGAAATT  
AACAGTAGAAGAAAATTACCGATTAGAGAAAAGAAGAAAACCTTTCCAAAGTAGATGAGAAAATCAGCCAT  
GCGACCGAGGAGCTGGAGACCTGCAGGCAGCGTGCCAAGGATCTTGAAGAAGAGCTGGAGAGAACAATTC  
ATCTTACCAGGGCAGGTTATTTCTCATGAAAAAAGCACATGATAATTGGCTGGCAGCTCGGACTCT  
TGAAAGAAATCTCAATGATTTAAGAAAAGAAAATGCCACAACAGACAAAAATTAAGTAAACAGAGTTT  
AAATTTGAACTTTTAGAAAAGATCCTTATGCACCTTGATGTTCCAAACACAGCATTGGCAGAGAGCACT  
CCCCATATGGTCCCTCACCATTGGGCCGACCTCCATCTGAAACGAGAGCTTTTCTCTCTCCTCAACTTT  
GTTGGAGGGTCCACTAAGACTCTCACCTTGTCTCCAGGGGAGGAGGAAGAGGCTCACGAGGCCCTGAG  
AACCTTCTGGACCATCAGATGAACACTGAAAGAGGAGAGTCAAGCTATGACAGATTATCTGATGCTCCCA  
GAGCACCTCCGACAGGTCCCTGTACCTCCGTGGGAACAAGATCGAAGGATGACAGCCCATCCGCCACC  
AGGCCAACCATATTCTGATCCAGCTCTACAAAGGCAAGATCGGTTTTATCCTAATTCTGGTAGACTCTCT  
GGACCAGCAGAACTCAGAAGTTATAATATGCCCTCTTTGGATAAAGTGGATGGGCCAGTACCCTCAGAAA  
TGGAGTCCAGTGGAAACGTTACCAAGATAATCTTGGTAACTCTAATGTGCCTGATTCTCCTATCCCTGC  
TGAAATGCGAAGCAGCTGGCCGTGGCTTCTCCCTCCACCCTTCTCCAGTCAGAGACCCATTGTTTCCA  
GTGGATCCAAGGAGCCAGTTCATGAGAAGGGGCCCTCTTTCCCCCACCTCCTCCAGGAAGCATCTATG  
CAGCTCCTCGAGATTATTTCCACCAAGGGACTTCCCTGGCCACCACCTCCTCCGTTCCAGGGGAGAAC  
TGTGTACGCACCAGGGGCTTTCCACCTTACCTTCCCCCAGAGCTGGGTTCTTCCCCCACCACCAT  
CCTGAAAGTAGAAGTGAAGTCCCCCAGACTTGATTCGCCTTCAAAGAGCCTGCAGCTGACCTCCAG  
AAACACAGGAGGCTGACAGCGTTACGTCTTACCGGCAGTCATTTCCGTCTATTTTCAAGTTAAGTAA  
TTTTGTAATAAAGATGATTTAAATATGAATCTTATGGTAAATTTATTTCCATTTTATTTTATTCTAGAT  
AGTATAACTATTTTACTTTGATTACCTCATCTATAATTATGGTAGTTTTATATATGTAATCTTATAGTTG  
GGGATATCTCAAACCTCAAAGGCTGTGTCTTTATACCAGGGATGTGTTTACCATGTTGTAGGCAATGTAA  
AAGTAACTTATGTTTAACTCAAATAAAATTTTAAATTGATTTAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_146034  
**Insert Size:** 2340 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026864</a> , <a href="#">AAH26864</a>
<b>RefSeq Size:</b>	2856 bp
<b>RefSeq ORF:</b>	2340 bp
<b>Locus ID:</b>	338320
<b>Cytogenetics:</b>	12 C1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks several 5' exons and reflects the use of an alternate internal promoter, compared to variant 1. It encodes the cTAGE family member 5 protein (isoform 3), which is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. CCDS Note: The coding region has been updated to extend the N-terminus to one that is supported by available conservation data. The use of an alternative upstream start codon would result in a protein that is 17 aa longer.</p>