

Product datasheet for **MC223223**

Mdga2 (NM_207010) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdga2 (NM_207010) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mdga2
Synonyms:	6720489L24Rik; 9330209L04Rik; Adp; Mamdc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC223223 representing NM_207010
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTAGTGTACGGTCTCGTGTGGCTGCTGACAGTCTCCTGGAGGGAACTCTGGCCAAGGAGTGT
 ACGCTCCCCGACAGTTCGGATTGTGACTCAGGATTGGCCTGTAATATCGAGGAGGAGCGCTACTCCGA
 AAGGGTCTATACCATCCGGGAAGGAGAACTCTAGAATTGACCTGCCTGGTTACTGGACATCCACGCCCA
 CAGATCAGGTGGACAAAACAGCAGGAAGCGCCTCTGACAGATCCAAGACTCAAGTGTCTTCAATGAGA
 CTTTGAGGATTACAAACATTCAGAGACCAAGGAGGCCGATTA TACTGTAAGCAGAGAATGGCTTGGG
 GTCACCAGCAATAAAGTCGATCCGAGTGGATGTGACTACTTGGATGATCCAGTAGTAACTGTTCATCAA
 AGTATAGTGGAAGCTAAGAACAATTTTACTATGAGAGAACAGTGTTCCTCGATGTGTGCCAATTCCA
 ACCCCCCTGTGCGCTATAGCTGGAGACGTGGTCAGGAGGTACTACTACAAGGATCTGACAAGGGAGTGGA
 GATTTATGAGCCCTTTTTACCCAGGGGAAACGAAGATCTTAAAGCTAAGAATCTTCGCCCTCAAGAT
 TATGCTAACTACAGCTGCATTGCTTCAGTAAGGAACGTGTGTAATATTCCAGACAAGATGGTGTCTGTTA
 GACTTTCCAATAAACTGCTTCTCCGTC AATTAAGCTCTTGGTGGATGATCCTATAGTTGTAATCCTGG
 AGAGGCCATAACGTTAGTATGTGTTACAACCTGGAGGAGAGCCTACACCCTCTTACCTGGGTGAGGTCC
 TTCGGGACTCTGCCTGAAAAGATTGTTTTGAATGGAGGGACATTGACCATACCTGCCATCACCTCTGATG
 ACGCTGGTACTTACAGCTGCATTGCCAATAATAATGTGGGAAACCTGCAAAAAAGTCCACCAACATCAT
 TGTGAGAGCATTAAAAAAGGACGATTTGGATCACTCCTGATCCTTATCACAAGATGACAACATCCAG
 ATTGGCGTGAGTGAAAATATCTTGCCAAAGTGAAGCTGTTCCCTCTGAGGAGTTAACATTCAGTTGGT
 TTAATAATGGTTCGTCATTAAAGAAGTTCTGAACGGATGGTTATTACACAGACTGACCCTGATGTGCCCC
 CGGAACAACAACACTTGGATATCATTGACTTAAAATTCACAGACTTTGGGACTTACACATGCGTGGCCTCT
 CTGAAGGGAGGAGGAATATCTGATATCAGTATTGATGTTAACATTTCCAGCAGTACAGTTCACCCAATC
 TGACTGTTCCACAGGAAAAATCACCTTTGGTCACCAGAGAAGGAGACACAATAGAATTCAGTGTCAAGT
 AACTGGGAAACAAAACCAATCATCCTTTGGTCTAGAGCAGATAAAGAAGTTGCAATGCCTGATGGGACA
 ATGCAATGGAAGTTATGATGGGACCCTGAGGATTGTGAATGTTTCAAGGAAATGTCAGGAATGTACA
 GATGCCAGACCAGCCAGTACAATGGATTCAACGTGAAGCCAAGAGAAGCCTTGGTGCAGCTCATTGTGCA
 GTATCCCCAGCTGTGGAACCAGCATTCTGGAATCCGTCAAGGACAGGACAGAAGTGTGACCATGAGC
 TGTAGGGTCTGAGAGCCTATCCAATACGAGTGTGACCTATGAGTGGCGTCTGGGCAATAAATTATTAC
 GGACCCGACAGTTTACTCTCAGGAGTATACAGAGTACCCACTAAAGAGTCTTCCAATGAAAACATATGG
 AGTTTATAACTGCAGCATATAAATGAAGCTGGAGCAGGGAGATGCAGCTTTCTTGTACAGGAAAGGCC
 TATGCCCCAGAGTTTACTATGACACCTACAACCCCGTGTGGCAGAACCACAGCAGTGTATTCTTACA
 GTCTACAGTGGACACAAATGAACCTGATGCAGTTGATCGAATGTTGATACCGCTTGGGTATTCGGCA
 GGCTGGACAGCAACGCTGGTGGGAACAGGAGATTAATAAATGGAAATATTAGAAAGGAGAAGTGAAT
 ACATATAACTTGACTGAACCTTAAACCAGAGGCCTATGAAGTCCGATTGACTCCTCCTCACTAAATTTG
 GTGAAGGAGATTCAACAATTCGTGTAATTAATATACAGGGGAATTTCACTGTGGATTTGAAGATGGTAA
 TATTTGTTTGTTCACCAAGACGATACGGATAACTTTGACTGGACAAAGCAAAGCACTGCAACAAGGAAC
 AAAAAATACACCCTAACACGGGTCCAGTGCAGATCGGAGTGGTTCCAAGAAGGTTTTATATGTACA
 TTGAGACATCGCGACCCAGACTAGAAGGCGAAAAGGCTCGACTTCTCAGCCCTGTATTACAGCATAGCTCC
 CAAAAATCCATATGGACCTACAAATAGTGCATATTGTTTCAGTTTCTTCTATCACATGTACGGGCAACAT
 ATAGGGGTTTTAAATGTATATCTACGTTTGAAGGGCAGACAACGATAGAGAATCCGCTATGGTCGTCGA
 GTGGGAACAAAGGACAACGATGGAATGAAGCTCATGTTAATATATCCAATTACTTCATTTAGTTAAT
 TTTTGAAGGCATTCGAGGTCCTGGGATAGAGGGTGACATCGCCATTGATGATGTATCAATTGCTGAAGGA
 GAATGTGCAAAAACAGACCTACCAACTAAGAATCCGTGGATGGTGTGTTGGGATCTTAGTTCATATAT
 GGCTTTTTCCAGTTATCATCCTCATCTATCTTAAGCCCTCGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_207010
Insert Size:	2850 bp
OTI Disclaimer:	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).
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_207010.2 , NP_996893.3
RefSeq Size:	9813 bp
RefSeq ORF:	2850 bp
Locus ID:	320772
UniProt ID:	P60755
Cytogenetics:	12 27.63 cM
Gene Summary:	May be involved in cell-cell interactions.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (B) lacks an in-frame exon in the coding region, compared to variant A. The resulting protein (isoform B) is shorter, compared to isoform A. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: The coding region has been updated to annotate a downstream in-frame AUG. The downstream AUG is predicted to encode a signal peptide which is expected for this GPI-anchored protein. PMID: 23358245 shows evidence that this protein is processed through the ER and would likely require a signal peptide. The upstream in-frame AUG is likely bypassed by leaky scanning to allow for translation from the downstream AUG.