

Product datasheet for **RC223142**

MDGA2 (NM_182830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDGA2 (NM_182830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MDGA2
Synonyms:	c14_5286; MAMDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC223142 representing NM_182830
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTGTTTTAGACTGTCCAATAAAACAGCATCACCGTCAATTAACCTTTGGTGGATGATCCTATAG
TTGTAATCCTGGAGAGGCCATAACATTAGTATGTGTTACAACAGGAGGAGGCCTGCACCTTCTCTCAC
CTGGGTACAGTCTTTGGGACTCTGCCTGAAAAGACTGTTTTGAATGGAGGAACTTTGACCATACCTGCC
ATCACCTCAGATGATGCTGGTACTTACAGCTGCATTGCCAATAAATGTGGGAAACCTGCAAAAAAGT
CCACCAACATCATTGTGAGAGCATTAAAAAAGGACGATTTTGGATCACACCAGATCCTTATCACAAAGA
TGACAACATCCAGATTGGCCGTGAGGTGAAAATATCTTGCCAAGTAGAAGCTGTTCTTCTGAGGAGCTA
ACATTTAGTTGGTTAAAAATGGTCGTCCATTAAGAAGTCTGAGCGGATGGTCATTACACAGACTGATC
CTGATGTCTCTCCGGGAACAACAACTTGACATCATTGATTTAAAATTCACGGATTTTGGGACGTACAC
ATGTGTAGCATCTCTGAAGGGAGGAGGAATATCTGATATCAGTATCGATGTTAATATATCCAGCAGCACA
GTTCCACCAATCTGACTGTTCCACAGGAAAAATCACCATTGGTCACCAGAGAAGGAGACACAATAGAAC
TGCAATGTCAAGTAACTGGCAAACCTAAACCAATCATCCTTTGGTCTAGAGCGGATAAAGAAGTTGCAAT
GCCTGATGGATCAATGCAATGGAGAGTTATGATGGAACACTGAGGATTGTAATGTATCTAGGGAAATG
TCAGGAATGTACAGATGTACAGCCAGCCAATAAATGGATTTAACGTGAAACCAAGGGAAGCCTTGGTGC
AGCTCATCGTTCAGTATCCCCCTGCAGTGGAAACAGCATTCTTGGAAATCCGGCAAGGACAGGATCGAAG
TGTCATATGAGTTGCAGAGTACTGAGAGCCTATCCAATACGGGTGCTGACCTATGAGTGGCGCTTGGGC
AATAAAATTATTACGGACGGTCAATTTGACTCTCAGGAATACACAGAGTACGCTGTGAAGAGTCTTTCCA
ATGAAAACATATGGGGTTATAACTGTAGCATCAAAATGAAGCTGGAGCTGGGAGATGCAGCTTTCTTGT
TACAGGAAAGGCCTATGCTCCAGAATTCTATTGATACCTACAATCCAGTATGGCAGAACAGACACCGT
GTTTATTCTTACAGTCTACAGTGACACAGATGAATCCTGATGCAAGTGGATCGGATTGTTGCATACCGGT
TGGGCATCAGGCAGGCTGGACAGCAGCGCTGGTGGGAGCAGGAGATTAATAAAATGGGAATATTTAAAA
GGGAGAATTAATTACATAAACTTGACAGAGCTAATTAACCAGAAGCTTATGAAGTCCGACTGACTCCT
CTCACAAATTTGGTGAAGGAGATTCAACAATTCGTGTGATCAAAATAGTGCTCCTGTAATCCTCATT
TGAGAGAATTTTATTGTGGATTTGAAGATGGTAATTTTGTGTTTCACTCAAGATGATACAGATAATTT
TGACTGGACAAAGCAAAGTACAGCAACAAGAAATACAAAATATACTCCTAATACAGGACCTAATGCTGAC
CGTAGTGGCTCCAAGAAGGTTTTTATATGTACATTGAGACATCACGACCCAGATTGGAAGGCGAAAAGG
CTCGACTTCTCAGCCCTGTTTTACAGATAGCTCCAAAAACCTTATGGACCCACAACACTGCATATTG
TTTCAGCTTCTTTTATACATGTATGGACAACATATAGGTGTCTTAAATGTTTATCTACGTTTGAAAGGG
CAAACAACATAGAGAATCCACTGTGGTCTTCAAGTGGGAATAAAGGACAAAGATGGAATGAGGCTCATG
TTAATATATACCAATTACTTCAATTCAGCTCATTTTTGAAGGTATCCGAGGTCTTGGAAATAGAAGGTGA
CATTGCTATTGATGATGATCAATTGCAGAAGGAGAATGTGCAAAAACAAGACCTAGCAACTAAGAATTCC
GTTGATGGTGTGTTGGGATTTGGTTCATATATGGCTTTTTCCATTATCGTCCTCATCTATCTTAA
GTCCTCGAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223142 representing NM_182830
Red=Cloning site Green=Tags(s)

MVSFRLSNKTASPSIKLLVDDPIVVPNGEAITLVCVTTGGEPAPSLTWVRSFGTLPEKTVLNGGTLTIPA
 ITSDDAGTYSCIANNVGNPAKKSTNIIVRALKKGRFWITDPYHKDDNIQIGREVKISCVQVEAVPSEEL
 TFSWFKNGRPLRSSERMVITQTDPDVSPGTTNLDIIDLKFDFTGTYTVCVASLKGGSIDISIDVNISSST
 VPPNLTVPQEKSPLVTRREGDTIELQCQVTGKPKPIILWSRADKEVAMPDGSQMESYDGLTRIVNVSREM
 SGMRCQTSQYNGFNKPREALVQLIVQYPPAVEPAFLEIRQGQDRSVTMSCRVLRAYPIRVLTIEWRLG
 NKLLRTGQFDSQEYTEYAVKSLSNENYGVYNCSIINEAGAGRCSFLVTGKAYAFEFYDTPVWQNRHR
 VYSYSLQWTQMNPDVDRIVAYRLGIRQAGQQRWWEQEI KINGNIQKGELITYNL TELIKPEAYEVR LTP
 LTKFGECDSTIRVIKYSAPVPHLREFHCGFEDGNICLFTQDDTDNFDWTKQSTATRNTKYPTNTGPNAD
 RSGSKEGFYMYIETSRPRLEGEKARLLSPVFSIAPKNPYGPTNTAYCF SFFYHMYQHIGLVNLYRLKKG
 QTTIENPLWSSSGNKGQRWNEAHVNIYPITSFQLIFEGIRGPGIEGDIADDVSI AEGECAKQDLATKNS
 VDGAVGILVHIWLFPIIVLISILSPRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_182830

ORF Size: 2181 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_182830.4](#)

RefSeq Size: 5239 bp

RefSeq ORF: 2184 bp

Locus ID: 161357

UniProt ID: [Q7Z553](#)

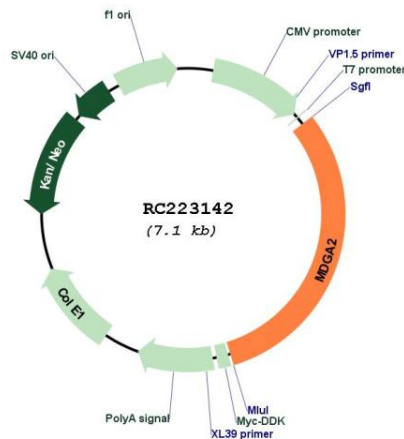
Cytogenetics: 14q21.3

Protein Families: Druggable Genome, Transmembrane

MW: 81.4 kDa

Gene Summary: May be involved in cell-cell interactions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223142