

Product datasheet for **RG223142**

MDGA2 (NM_182830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDGA2 (NM_182830) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MDGA2
Synonyms:	c14_5286; MAMDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223142 representing NM_182830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTGTGCTTTAGACTGTCCAATAAACAGCATCACCGTCAATTAACTCTTGGTGGATGATCCTATAG
 TTGTAATCCTGGAGAGGCCATAACATTAGTATGTGTTACAACAGGAGGAGAGCCTGCACCTTCTCTCAC
 CTGGGTCAAGTCTTTGGGACTCTGCCTGAAAAGACTGTTTTGAATGGAGGAACCTTGACCATACCTGCC
 ATCACCTCAGATGATGCTGGTACTTACAGCTGCATTGCCAATAAATGTGGGAAACCTGCAAAAAAGT
 CCACCAACATCATTGTGAGAGCATTAAAAAAGGACGATTTTGGATCACACCAGATCCTTATCACAAAGA
 TGACAACATCCAGATTGGCCGTGAGGTGAAAATATCTTGCCAAGTAGAAGCTGTTCTTCTGAGGAGCTA
 ACATTTAGTTGGTTAAAAATGGTCGTCCATTAAGAAGTTCTGAGCGGATGGTCATTACACAGACTGATC
 CTGATGTCTCTCCGGGAACAACAACTTGACATCATTGATTTAAATTCACGGATTTTGGGACGTACAC
 ATGTGTAGCATCTCTGAAGGGAGGAGGAATATCTGATATCAGTATCGATGTTAATATATCCAGCAGCACA
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 TGCAATGTCAAGTAACTGGCAACCTAAACCAATCATCCTTTGGTCTAGAGCGGATAAAGAAGTTGCAAT
 GCCTGATGGATCAATGCAATGGAGAGTTATGATGGAACACTGAGGATTGTGAATGTATCTAGGGAAATG
 TCAGGAATGTACAGATGTGAGCCAGCCAATACAATGGATTTAACGTGAAACCAAGGGAAGCCTTGGTGC
 AGCTCATCGTTCAGTATCCCCCTGCAGTGGAAACAGCATTCTTGGAAATCCGGCAAGGACAGGATCGAAG
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 TTAATATATACCAATTACTTCATTTCAGCTCATTTTTGAAGGTATCCGAGGTCTGGAATAGAAGGTGA
 CATTGCTATTGATGATGATCAATTGCAGAAGGAGAATGTGCAAAACAAGACCTAGCAACTAAGAATTCC
 GTTGATGGTGTGTTGGGATTTTGGTTCATATATGGCTTTTTCCCATATCGTCCTCATCTATCTTAA
 GTCCTCGAAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

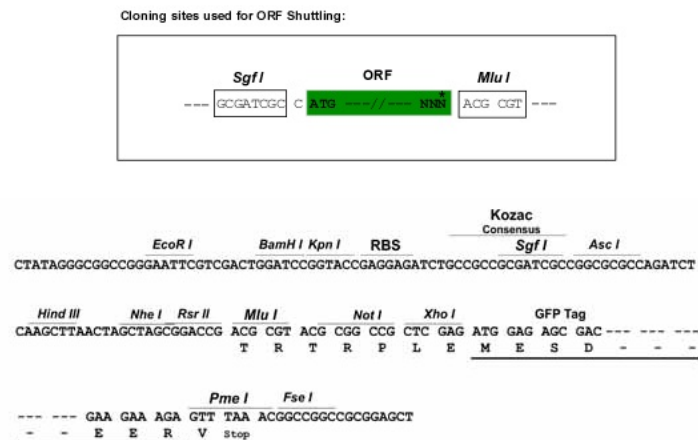
Protein Sequence: >RG223142 representing NM_182830
 Red=Cloning site Green=Tags(s)

MVSFRLSNKTASPSIKLLVDDPIVVNPGEAITLCVTTGGEPAPSLTWVRSFGTLPEKTVLNGGTLTIPA
 ITSDDAGTYSCIANNVGNPAKKSTNIIVRALKGRFWITPDYPHKDDNIQIGREVKISCQVEAVPSEEL
 TFSWFKNGRPLRSSERMVITQTDPDVSPGTTNLDIIDLKFTDFGTTCVASLKGGSIDISIDVNISST
 VPPNLTVPQEKSPVLTREGDTIELQCQVTGKPKPIILWSRADKEVAMPDGSQMESYDGLRIVNVSREM
 SGMYRCQTSQYNGFNVKPREALVQLIVQYPPAVEPAFLEIRQQQDRSVTMSCRVLRAYPIRVLTIEWRLG
 NKLLRTGQFDSQEYTEYAVKSLSNENYGVYNCISIINEAGAGRCFLVTGKAYAFEFYDTPVWQNRHR
 VYSYSLQWTQMNPDVDRIVAYRLGIRQAGQQRWWEQEIKNINGNIQKGLITYNLTELKPEAYEVRTP
 LTKFGECDSTIRVIKYSAPVNPRLREFHCGFEDGNICLFTQDDTDNFDWTKQSTATRNTKYPTNTGPNAD
 RSGSKEGFMYIETSRPRLEGEKARLLSPVFSIAPKNPYGPTNTAYCFSFFYHMYQHIGVLNVYLRKLG
 QTTIENPLWSSSGNKGQRWNEAHVNIYPITSFQLIFEGIRGPGIEGDIADDVSIAGECAKQDLATKNS
 VDGAVGILVHIWLFPIIVLISILSPRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

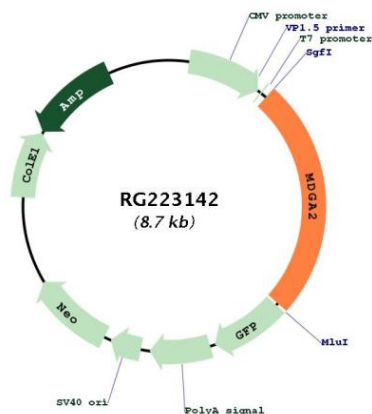
UniProt ID: [Q7Z553](#)

Cytogenetics: 14q21.3

Protein Families: Druggable Genome, Transmembrane

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

Product images:



Circular map for RG223142