

## Product datasheet for **RC230080**

### Repulsive Guidance Molecule A (RGMA) (NM\_001166288) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Repulsive Guidance Molecule A (RGMA) (NM_001166288) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Repulsive Guidance Molecule A
Synonyms:	RGM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC230080 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

RCATGGGTATGGGGAGAGGGGCAGGACGTTTCAGCCCTGGGATTCTGGCCGACCCTCGCCTTCCTTCTCTG  
 CAGCTTCCCCGCAGCCACCTCCCGTGCAAGATCCTCAAGTGCAACTCTGAGTTCTGGAGCGCCAGGTCG  
 GGCAGCCACGCCCCAGCCTCAGACGACACCCCCGAGTTCTGTGCAGCCTTGCGCAGCTACGCCCTGTGCA  
 CGCGGGGACGGCCCGCACCTGCCGGGGTGACCTGGCCTACCACTCGGCCGTCCATGGCAGATAGAGGACCT  
 CATGAGCCAGCACAACCTGCTCAAGGATGGCCCCACCTCGCAGCCAGCCTGCGCAGCTCCCACCGGCC  
 GGAGACAGCCAGGAGCGCTCGGACAGCCCCGAGATCTGCCATTACGAGAAGAGCTTTCACAAGCACTCGG  
 CCACCCCCAACTACACGCACTGTGGCTCTTCGGGGACCCACACCTCAGGACTTTCACCGACCGCTTCCA  
 GACCTGCAAGGTGCAGGGCGCTGGCCGCTCATCGACAATAATTACCTGAACGTGCAGGTACCAACACG  
 CCTGTGCTGCCCGCTCAGCGGCCACTGCCACCAGCAAGCTCACCATCATCTTCAAGAACTTCCAGGAGT  
 GTGTGGACCAGAAGGTGTACCAGGCTGAGATGGACGAGCTCCCGGCCGCTTCGTGGATGGCTCTAAGAA  
 CGGTGGGGACAAGCACGGGGCAACAGCCTGAAGTCACTGAGAAGGTGTAGGCCAGCAGCTGGAGATC  
 CAGGCCAAGTACATCGGCACCACCATCGTGGTGCGCCAGGTGGGCGCTACCTGACCTTTGCCGTCGCA  
 TGCCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGGTCTCTACCTCTGCCTGCGGGGCTG  
 CCCCCTCAACCAGCAGATCGACTTCCAGGCCTTCCACACCAATGCTGAGGGCACCAGGTGCCCGCAGGCTG  
 GCAGCCGCCAGCCTGCACCCACAGCCCCGAGACCTTCCCATACGAGACAGCCGTGGCCAAGTGAAGG  
 AGAAGCTGCCGGTGGAGGACCTGTACTACCAGGCTGCGTCTTCGACCTCCTACCACGGGCGACGTGAA  
 CTTACACTGGCCGCTACTACGCGTTGGAGGATGTCAAGATGCTCCACTCCAACAAAGACAAACTGCAC  
 CTGTATGAGAGGACTCGGGACCTGCCAGGCAAGGCGGCTGCGGGGCTGCCCTGGCCCCCGGCCCTCC  
 TGGGCGCCTGGTCCCGCTCCTGGCCCTGCTCCCTGTGTCTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC230080 protein sequence  
 Red=Cloning site Green=Tags(s)

XWVWEGQDVQPWDSGRPSFSFAASPQPPRARSSSATLSSGAPRRAATPQPQTTPSSVQPCAAATPCA  
 RGGRPAPAGVTWPTTRPSMA\*RTS\*ASTAPRMAPPRSHACARSHRPETARSARTAPRSAITRRAFTSTR  
 PPPTTRTVASSGHTSGLSPTASRPARCRAPGRSSTIIT\*TCRSPTRLCCPAQRPLPPASSPSSSRTSRS  
 VWTRRCTRLRWTSRPPSWMALRTVGTSTGPTA\*RSLRRCQASTWRSRPSTSAPPSSWCARWAAT\*PLPSA  
 CQRKWSMLWRTGTARVSTSACGAAPSTSRSTSRPSTPMLRAPVPAGWQPPALHPQPPRPSHTRQPWPSAR  
 RSCRWRTCTTRPASSTSSPRAT\*TSHWPTTRWRMSRCSTPTKTNCTCMRGLGTCQAGRLRGCWPWPGPS  
 WAPWSRSWPCSLCS

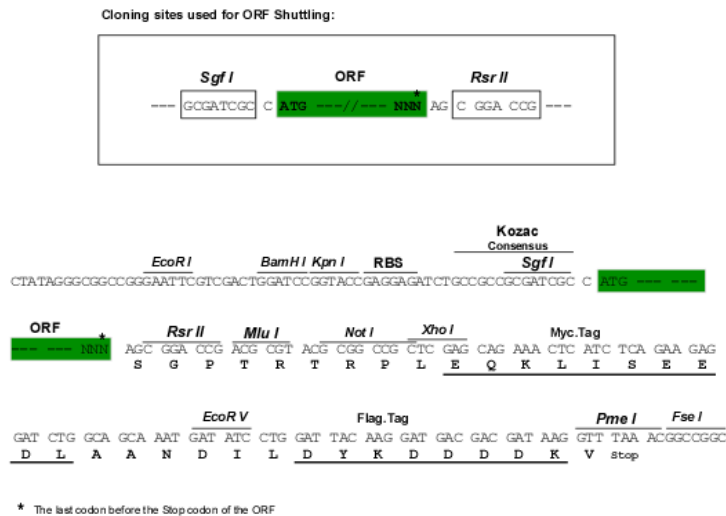
**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4496\\_h01.zip](https://cdn.origene.com/chromatograms/mg4496_h01.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001166288

**ORF Size:** 1302 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\\_001166288.1](#), [NP\\_001159760.1](#)

**RefSeq Size:** 3058 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 56963

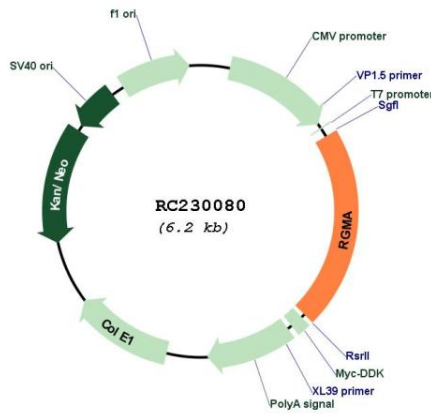
**UniProt ID:** [Q96B86](#)

**Cytogenetics:** 15q26.1

**MW:** 47.5 kDa

**Gene Summary:** This gene encodes a member of the repulsive guidance molecule family. The encoded protein is a glycosylphosphatidylinositol-anchored glycoprotein that functions as an axon guidance protein in the developing and adult central nervous system. This protein may also function as a tumor suppressor in some cancers. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

**Product images:**



Circular map for RC230080