

Product datasheet for **RC230078**

Repulsive Guidance Molecule A (RGMA) (NM_001166289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Repulsive Guidance Molecule A (RGMA) (NM_001166289) 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)



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ORF Nucleotide Sequence:

>RC230078 representing NM_001166289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTATGGGGAGAGGGGCAGGACGTTACGCCCTGGGATTCTGGCCGACCTCGCCTTCTCTCTGCA
 GCTTCCCCGCAGCCACCTCCCCGTGCAAGATCCTCAAGTGCAACTCTGAGTTCTGGAGCGCCACGTCCGGG
 CAGCCACGCCAGCCTCAGACGACACCCCGAGTTCTGTGCAGCCTTGCAGCTACGCCCTGTGCACG
 CGGCGGACGGCCGACCTGCCGGGTGACCTGGCCTACCACTCGGCCGTCATGGCATAGAGGACCTCA
 TGAGCCAGCACAAGTCTCAAGGATGGCCCCACCTCGCAGCCACGCCTGCGCACGCTCCACCGGCCGG
 AGACAGCCAGGAGCGCTCGGACAGCCCCGAGATCTGCCATTACGAGAAGAGCTTTCACAAGCACTCGGCC
 ACCCCCAACTACACGCACTGTGGCTCTCGGGGACCCACACCTCAGGACTTTCACCGACCGCTCCAGA
 CCTGCAAGGTGCAGGGCGCTGGCCGCTCATCGACAATAATTACCTGAACGTGCAGGTACCAACACGCC
 TGTGCTGCCCGGCTCAGCGGCCACTGCCACCAGCAAGCTCACCATCATCTCAAGAAGTCCAGGAGTGT
 GTGGACAGAAGGTGTACAGGCTGAGATGGACGAGCTCCCGGCCGCTTCGTGGATGGCTAAGAAGC
 GTGGGGACAAGCACGGGGCCAACAGCCTGAAGTCACTGAGAAGGTGTCAGGCCAGCACGTGGAGATCCA
 GGCCAAGTACATCGGCACCACCATCGTGGTGGCCAGGTGGGCCGCTACCTGACCTTTGCCGTCCGCATG
 CCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGGTCTCTACCTCTGCCTGCGGGGCTGCC
 CCCTCAACCAGCAGATCGACTCCAGGCCTTCCACACCAATGCTGAGGGCACCGGTGCCCGCAGGCTGGC
 AGCCGCCAGCCCTGCACCCACAGCCCCGAGACCTTCCATACGAGACAGCCGTGGCCAAGTGAAGGAG
 AAGCTGCCGGTGGAGGACCTGTACTACCAGGCTGCGTCTTCGACCTCCTCACCAGGGCGACGTGAAGT
 TCACACTGGCCGCTACTACGCTTGGAGGATGTCAAGATGCTCCACTCCAACAAGACAAGTGCACCT
 GTATGAGAGGACTCGGGACCTGCCAGGCAGGGCGGCTGCGGGGCTGCCCTGGCCCCCGGCCCTCCTG
 GCGCCCTGCTCCGCTCCTGGCCCTGCTCCCTGTGTTCTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC230078 representing NM_001166289
 Red=Cloning site Green=Tags(s)

MGMGRGAGRSALGFWPTLAFLLCSFPAATSPCKILKCNSEFWSATSGSHAPASDDTPEFCAALRSYALCT
 RRTARTCRGDLAYHSAVHGIEDLMSQHNSKDGPTSQPRLRLPPAGDSQERSDSPEICHYEKSFKHSA
 TPNYTHCGLFGDPHLRFTDRFQTCVKVQAWPLIDNNYLNQVNTNTPVLPGSAATATSKLTIIIFKNFQEC
 VDQKVYQAEMDELPAAFVDGSKNGGDKHGANSKITEKVSQHVETQAKYIGTTIVVRQVGRYLTFAVRM
 PEEVVNAVEDWDSQGLYLCLRGCP LNQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETAVAKCKE
 KLPVEDLYYQACVFDLLTTGDVNF TLAAYALEDVKMLHSNKDKLHL YERTRDLPGRAAAGLPLAPRPLL
 GALVPLLALLPVFC

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4496_h01.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001166289

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_001166289.1](#), [NP_001159761.1](#)

RefSeq Size: 3078 bp

RefSeq ORF: 1305 bp

Locus ID: 56963

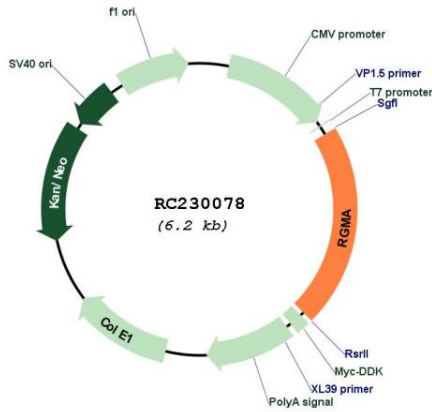
UniProt ID: [Q96B86](#)

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 RC230078