

## Product datasheet for **SC328757**

### Repulsive Guidance Molecule A (RGMA) (NM\_001166283) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Repulsive Guidance Molecule A (RGMA) (NM_001166283) Human Untagged Clone
Tag:	Tag Free
Symbol:	Repulsive Guidance Molecule A
Synonyms:	RGM
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001166283 edited  
 ATGGGTGGCCTGGGGCCACGACGGGCGGGAACCTCGAGGGAGAGGCTAGTGGTAACAGGC  
 CGAGCTGGATGGATGGGTATGGGGAGAGGGGCAGGACGTTTCAGCCCTGGGATTCTGGCCG  
 ACCCTCGCCTTCCTTCTCTGCAGCTTCCCGCAGCCACCTCCCGTGCAAGATCCTCAAG  
 TGCAACTCTGAGTTCTGGAGCGCCACGTCGGGCAGCCACGCCCCAGCCTCAGACGACACC  
 CCCGAGTTCTGTGCAGCCTTGGCGAGCTACGCCCTGTGCACGCGGGACGGCCCGCACC  
 TGCCGGGGTGACCTGGCCTACCACTCGGCCGTCCATGGCATAGAGGACCTCATGAGCCAG  
 CACAAGTCTCAAGGATGGCCCCACCTCGCAGCCAGCCTGCGCAGCTCCCACCGGCC  
 GGAGACAGCCAGGAGCGCTCGGACAGCCCCGAGATCTGCCATTACGAGAAGAGCTTTCAC  
 AAGCACTCGGCCACCCCAACTACACGCACTGTGGCCTCTTCGGGGACCCACACCTCAGG  
 ACTTTCACCGACCGCTTCCAGACCTGCAAGGTGCAGGGCGCCTGGCCGCTCATCGACAAT  
 AATTACCTGAACGTGCAGGTACCAACACGCCTGTGCTGCCCGGCTCAGCGGCCACTGCC  
 ACCAGCAAGCTCACCATCATCTTCAAGAACTTCCAGGAGTGTGTGGACCAAGGTTGAC  
 CAGGCTGAGATGGACGAGCTCCCGCCGCTTCGTGGATGGCTCTAAGAACGGTGGGGAC  
 AAGCACGGGGCCAAACAGCCTGAAGATCACTGAGAAGGTGTGAGCCAGCAGTGGAGATC  
 CAGGCCAAGTACATCGGCACCACCATCGTGGTGCAGGAGTGGGGCGCTACCTGACCTTT  
 GCCGTCGATGCCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGTTCTC  
 TACCTCTGCCTGCGGGGCTGCCCCCTCAACCAGCAGATCGACTCCAGGCCTTCCACACC  
 AATGCTGAGGGCACCGGTGCCCGCAGGCTGGCAGCCGCCAGCCCTGCACCCACAGCCCC  
 GAGACCTTCCATACGAGACAGCCGTGGCCAAGTGAAGGAGAAGCTGCCGGTGGAGGAC  
 CTGTAACCTACCAGGCTGCGTCTTCGACCTCCTACCCACGGGCGACGTGAACCTTCACTG  
 GCCGCTACTACGCTTGGAGGATGTCAAGATGCTCCACTCCAACAAAGACAAACTGCAC  
 CTGTATGAGAGGACTCGGGACCTGCCAGGCAGGGCGGCTGCGGGGCTGCCCTGGCCCC  
 CGGCCCTCCTGGGCGCCTCGTCCCGCTCCTGGCCCTGCTCCCTGTGTTCTGCTAG

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_001166283
<b>Insert Size:</b>	1400 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001166283.1</a></u> , <u><a href="#">NP_001159755.1</a></u>
<b>RefSeq Size:</b>	3200 bp
<b>RefSeq ORF:</b>	1377 bp
<b>Locus ID:</b>	56963
<b>UniProt ID:</b>	<u><a href="#">Q96B86</a></u>
<b>Cytogenetics:</b>	15q26.1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform 1. Sequence Note: This RefSeq record was created from transcript and 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.</p>