

## Product datasheet for **RC209693**

### Repulsive Guidance Molecule B (RGMB) (NM\_001012761) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Repulsive Guidance Molecule B (RGMB) (NM_001012761) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Repulsive Guidance Molecule B
Synonyms:	DRAGON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209693 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATAAGGAAGAAGAGGAAGCGAAGCGCGCCCCCGGCCATGCCGAGCCACGGGCCAGACCCGCCA  
 CGGCGCCCGCGCCCGCCCTCGCCGGAGCCACGAGACCTGCATGGACGGGCATGGGCTTGAGAGCAGC  
 ACCTTCCAGCGCCGCGCTGCCGCGCCGAGGTTGAACAGCGCCCGCCCGGGCTCTGCCCCCGCCG  
 CTGGAGCTGCTGCTGCTGCTGTTTACGCTCGGGCTGCTCCACGCAGGTGACTGCCAACAGCCAGCCC  
 AATGTCGAATCCAGAAATGCACCACGGACTTCGTGTCCCTGACTTCTCACCTGAACTCTGCCGTTGACGG  
 CTTTGACTCTGAGTTTTGCAAGGCCTTGCCTGCCTATGCTGGCTGCACCCAGCGAACTTCAAAGCCTGC  
 CGTGGCAACCTGGTATACCATTCTGCCGTTGGGTATCAGTGACCTCATGAGCCAGAGGAATTGTCCA  
 AGGATGGACCCACATCTCTACCAACCCGAAGTGACCCATGATCCTTGAACATCACAGCCACGCTGG  
 AGCCAGGGAACACAGGAGAGGGGACCAGAACCCTCCCAGTTACCTTTTTTGTGGCTTGTTTGGAGATCT  
 CACCTCAGAACTTCAAGGATAACTTCAAACATGCAAAGTAGAAGGGGCTGGCCACTCATAGATAATA  
 ATTATCTTTCAGTTCAAGTGACAACGTACCTGTGGTCCCTGGATCCAGTGCTACTGCTACAAAATAGAT  
 CACTATTATCTTCAAAGCCACCATGGGTGTACAGATCAGAAAGTCTACCAAGCTGTGACAGATGACCTG  
 CCGGCCGCTTTGTGGATGGCACCACAGTGGTGGGACAGCGATGCCAAGAGCCTGCGTATCGTGGAAA  
 GGGAGAGTGGCCACTATGTGGAGATGCACGCCCGCTATATAGGGACCACAGTGTTTGTGCCGAGGTGGG  
 TCGCTACCTGACCCTGCCATCCGTATGCCTGAAGACCTGGCCATGTCTACGAGGAGAGCCAGGACCTG  
 CAGCTGTGCGTGAACGGCTGCCCCCTGAGTGAACGCATCGATGACGGGCAGGGCCAGGTGTCTGCCATCC  
 TGGGACACAGCCTGCCTGCACCTCCTTGGTGCAGGCCGTCGCTGCTACACACTGGAGACTGCCAACAC  
 TCAATGCCATGAGAAGATGCCAGTGAAGGACATCTATTTCCAGTCTGTCTTCGACCTGCTCACCACCT  
 GGTGATGCCAACTTTACTGCCGACGCCACAGTGCCTTGAGGATGTGGAGGCCCTGCACCCAAGGAAGG  
 AACGCTGGCACATTTTCCCAGCAGTGGCAATGGGACTCCCCGTGGAGGCAGTATTTGTCTGTCAGTCT  
 AGGACTCACCTGCTTGATCCTTATCGTGTTTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209693 protein sequence  
 Red=Cloning site Green=Tags(s)

MIRKKRKRSAAPPGPCRSHGPRPATAPAPPPSPEPTRPAWTGMGLRAAPSSAAAAAAEVEQRRRPLCPPP  
 LLLLLLLLLFSLGLLHAGDCQPPAQCRITKCTTDFVSLTSHLNSAVDGFDFSEFKALRAYAGCTQRTSKAC  
 RGNLVYHSAVLGISDLMSQRNCSKDGPTSSTNPEVTHDPCNYHSHAGAREHRRGDQNPSSYLF CGLFGDP  
 HLRTFKDNFQTCKVEGAWPLIDNNYLSVQVTNVPVPGSSATATNKITIIIFKAHHGCTDQKVYQAVTDDL  
 PAAFVDGTTSGGSDAKSLRIVERESGHYVEMHARYIGTTVFVRQVGRYLTLAIRMPEDLAMSYYEESQDL  
 QLCVNGCPLSERIDGQGVSAILGHSLPRTSLVQAWPGYTLETANTQCHEKMPVKDIYFQSCVFDLLTT  
 GDANFTAAAHSALEDVEALHPRKERWHIFPSSNGTTPRGGSDLVSLGLTCLILIVFL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6364\\_h04.zip](https://cdn.origene.com/chromatograms/mk6364_h04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001012761

**ORF Size:** 1434 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001012761.3](#)

**RefSeq Size:** 4601 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 285704

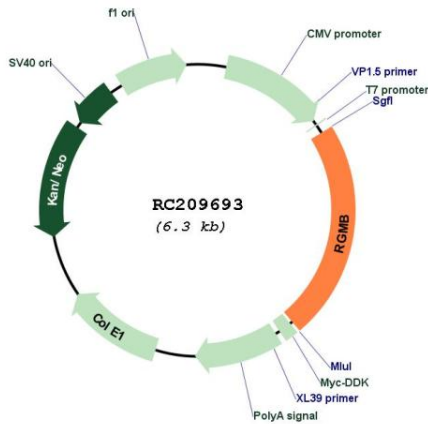
UniProt ID: [Q6NW40](#)

Cytogenetics: 5q15

MW: 51.9 kDa

Gene Summary: RGMB is a glycosylphosphatidylinositol (GPI)-anchored member of the repulsive guidance molecule family (see RGMA, MIM 607362) and contributes to the patterning of the developing nervous system (Samad et al., 2005 [PubMed 15671031]).[supplied by OMIM, Apr 2009]

**Product images:**



Circular map for RC209693