

Product datasheet for **RG209693**

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:	TurboGFP
Symbol:	Repulsive Guidance Molecule B
Synonyms:	DRAGON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209693 representing NM_001012761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAAGGAAGAAGAGGAAGCGAAGCGCGCCCCCGGCCCATGCCGAGCCACGGGCCAGACCCGCCA
 CGGCGCCCGCGCCGCGCCCTCGCCGAGCCACGAGACCTGCATGGACGGGCATGGGCTTGAGAGCAGC
 ACCTTCCAGCGCCGCGCTGCCGCGCCGAGGTTGAACAGCGCCGCCCGCCGGGCTCTGCCCCCGCCG
 CTGGAGCTGCTGCTGCTGCTGCTGTTACGCTCGGGCTGCTCCACGCAGGTGACTGCCAACAGCCAGCCC
 AATGTGCAATCCAGAAATGCACCACGGACTTCGTGTCCTGACTTCTCACCTGAACTCTGCCGTTGACGG
 CTTTGACTCTGAGTTTGAAGGCTTGGCTGCCTATGCTGGTGCACCCAGCGAACTTCAAAGCCTGC
 CGTGGCAACCTGGTATACCATTTGCCGTGTTGGGTATCAGTGACCTCATGAGCCAGAGGAATTGTTCCA
 AGGATGGACCCACATCCTCTACCAACCCGAAGTGACCCATGATCCTTGAACATACACGCCACGCTGG
 AGCCAGGGAACACAGGAGAGGGGACCAGAACCCTCCAGTTACCTTTTTGTGGCTTGTTGGAGATCCT
 CACCTCAGAACTTTCAAGGATAACTTCCAAACATGCAAAGTAGAAGGGGCTGGCCACTCATAGATAATA
 ATTATCTTTCAAGTGAACACGTACCTGTGGTCCCTGGATCCAGTGCTACTGCTACAAATAGAT
 CACTATTATCTTCAAAGCCCACCATGGGTGTACAGATCAGAAAGTCTACCAAGCTGTGACAGATGACCTG
 CCGGCCGCTTTGTGGATGGCACCACAGTGGTGGGACAGCGATGCCAAGAGCCTGCGTATCGTGAAA
 GGGAGAGTGGCCACTATGTGGAGATGCACGCGCCCTATATAGGGACCACAGTGTGTTGCGGCAGGTGGG
 TCGCTACCTGACCCTTGCCATCCGTATGCCTGAAGACCTGGCCATGTCTACGAGGAGAGCCAGGACCTG
 CAGCTGTGCGTGAACGGCTGCCCCCTGAGTGAACGCATCGATGACGGGAGGGGCCAGGTGTCTGCCATCC
 TGGGACACAGCCTGCCTGCACCTCCTTGGTGCAGGCTGGCCTGGCTACACACTGGAGACTGCCAACAC
 TCAATGCCATGAGAAGATGCCAGTGAAGGACATCTATTTCCAGTCCTGTGCTTCGACCTGCTCACCCT
 GGTGATGCCAACTTTACTGCCGAGCCACAGTGCCTTGAGGATGTGGAGGCCCTGCACCCAAGGAAGG
 AACGCTGGCACATTTTCCCAGCAGTGGCAATGGGACTCCCGTGGAGGCAGTGATTTGTCTGTCTGCTCT
 AGGACTCACCTGCTTGATCCTTATCGTGTGTTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209693 representing NM_001012761
 Red=Cloning site Green=Tags(s)

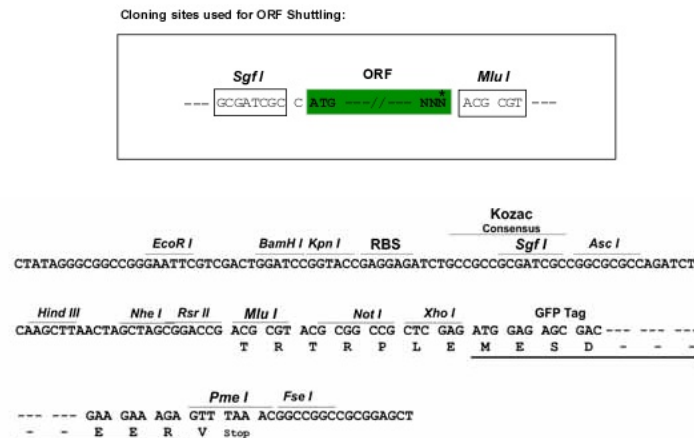
MIRKKRKRSAPPGPCRSHPRPATAPAPPPSPEPTRPAWTGMGLRAAPSSAAAAAAEVEQRRRPGLCPPP
 LLLLLLLLLFSLGLLHAGDCQQAQCRIQKCTTDFVSLTSHLNSAVDGFDFSEFKALRAYAGCTQRTSKAC
 RGNLVYHSAVLGISDLSQRNCSKDPTSSNPEVTHDPCNYHSHAGAREHRRGDQNPSSYLFGLFGDP
 HLRTFKDNFQTKVEGAWPLIDNNYLSVQVTNPVPGSSATATNKITIIIFKAHHGCTDQKVYQAVTDDL
 PAAFVDGTTSGGSDAKSLRIVERESGHYVEMHARYIGTTVFVRQVGRYLTLAIRMPEDLAMSYEESQDL
 QLCVNGCPLSERIDDGQGVSAIIGHSLPRTSLVQAWPGYTLETANTQCHEKMPVKDIYFQSCVFDLLTT
 GDANFTAAHSALEDVEALHPRKERWHIFSSNGNTPRGSDLSVSLGLTCLILIVFL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001012761.1](#), [NP_001012779.1](#)

RefSeq Size: 4600 bp

RefSeq ORF: 1437 bp

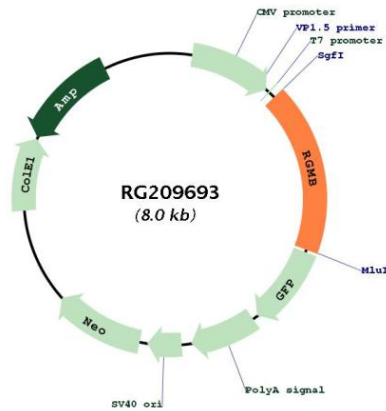
Locus ID: 285704

UniProt ID: [Q6NW40](#)

Cytogenetics: 5q15

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 RG209693