

Product datasheet for **SC301726**

Repulsive Guidance Molecule B (RGMB) (NM_001012761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Repulsive Guidance Molecule B (RGMB) (NM_001012761) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC301726 representing NM_001012761.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATAAGGAAGAAGAGGAAGCGAAGCGCGCCCGCCCGCCATGCCGAGCCACGGGCCAGACCCGCC
ACGGCGCCCGCCCGCCCGCCCTCGCCGAGCCACGAGACTGCATGGACGGGCATGGGCTTGAGAGCA
GCACCTTCCAGCGCCCGCTGCCGCGCCGAGGTTGAGCAGCGCCGAGCCCGGGCTCTGCCCCCG
CCGCTGGAGCTGCTGCTGCTGCTGTTGAGCCTCGGGCTGCTCCACGAGGTGACTGCCAACAGCCA
GCCAATGTCGAATCCAGAAATGCACCACGGACTTCGTGTCCCTGACTTCTCACCTGAACTCTGCCGTT
GACGGCTTTGACTCTGAGTTTTCGAAGGCTTGCCTGCTATGCTGGCTGCACCCAGCGAACTTCAAAA
GCCTGCCGTGGCAACCTGGTATACCATTCTGCCGTGTTGGGTATCAGTGACCTCATGAGCCAGAGGAAT
TGTTCAAAGGATGGACCCACATCCTCTACCAACCCGAAGTGACCATGATCCTTGAACATCACAGC
CACGCTGGAGCCAGGGAACACAGGAGAGGGGACCAGAACCCTCCCAGTTACCTTTTTTGCGCTTGT
GGAGATCCTCACCTCAGAACTTTCAAGGATAACTTCAAACATGCAAAGTGAAGGGCCCTGGCCACTC
ATAGATAATAATTATCTTTCAGTTCAAGTGACAAACGTACCTGTGGTCCCTGGATCCAGTCTACTGCT
ACAAATAAGATCACTATTATCTTCAAAGCCACCATGAGTGTACAGATCAGAAAGTCTACCAAGCTGTG
ACAGATGACCTGCCGGCCGCTTTGTGGATGGCACCACAGTGGTGGGGACAGCGATGCCAAGAGCCTG
CGTATCGTGGAAGGGAGAGTGGCCACTATGTGGAGATGCACGCCGCTATATAGGGACCACAGTGT
GTGCGGACAGTGGGTGCTACCTGACCTTGCCATCCGTATGCCTGAAGACCTGGCCATGCTCCTACGAG
GAGAGCCAGGACCTGCAGCTGTGCGTGAACGGCTGCCCTGAGTGAACGCATCGATGACGGGCAGGGC
CAGGTGCTGCCATCCTGGGACACAGCCTGCCTGCACCTCCTTGGTGCAGGCCCTGGCCTGGCTACACA
CTGGAGACTGCCAACACTCAATGCCATGAGAAGTGCCAGTGAAGGACATCTATTTCCAGTCTGTGTC
TTGACCTGCTCACCACCTGGTGTGATGCCAACTTTACTGCCGAGCCACAGTGCCTTGGAGGATGTGGAG
GCCCTGCACCAAGGAAGGAACGCTGGCACATTTTCCCGCAGTGGCAATGGGACTCCCGTGGAGGC
AGTGATTTGTCTGCTCAGTCTAGGACTCACCTGCTTATCGTGTTTTTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_001012761

Insert Size: 1437 bp

OTI Disclaimer: 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).

OTI Annotation: 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001012761.2</u>
RefSeq Size:	4601 bp
RefSeq ORF:	1437 bp
Locus ID:	285704
UniProt ID:	<u>Q6NW40</u>
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]