

Product datasheet for **RC217715**

Repulsive Guidance Molecule B (RGMB) (NM_173670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Repulsive Guidance Molecule B
Synonyms:	DKFZp434P228; DRAGON; DRAGON, FLJ90406, MGC86970, DKFZp434P228; FLJ90406; MGC86970; repulsive guidance molecule B; RGM domain family, member B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC217715 representing NM_173670
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATAAGGAAGAAGAGGAAGCGAAGCGCGCCCCCGGCCCATGCCGCAGCCACGGGCCAGACCCGCCA
CGGCGCCCGCGCCGCCCGCCTCGCCGGAGCCACGAGACCTGCATGGACGGCATGGGCTTGAGAGCAGC
ACCTTCACGCGCCCGCGCTGCCGCCCGGAGTTGAGCAGCGCCCGCCCGGGCTCTGCCCCCGCCG
CTGGAGCTGCTGCTGCTGCTGCTGTTGAGCCTCGGGCTGTCCACGCAGGTGACTGCCAACAGCCAGCCC
AATGTCGAATCCAGAAATGCACCACGGACTTCGTGTCCTGACTTCTCACCTGAACTCTGCCGTTGACGG
CTTTGACTCTGAGTTTTGCAAGGCCTTGCGTGCTATGCTGGCTGCACCCAGCGAACTTCAAAGCCTGC
CGTGGCAACCTGGTATACCATCTGCGCTGTTGGGTATCAGTGACCTCATGAGCCAGAGGAATTGTTCCA
AGGATGGACCCACATCCTCTACCAACCCGAAAGTGACCCATGATCCTTGCAACTATCACAGCCACGCTGG
AGCCAGGGAACACAGGAGAGGGGACCAGAACCTCCAGTTACCTTTTTGTGGCTTGTTGGAGATCCT
CACCTCAGAACTTTCAAGGATAACTTCAAACATGCAAAGTAGAAGGGGCTGGCCACTCATAGATAATA
ATTATCTTTTCAGTTCAAGTGACAAACGTACCTGTGGTCCCTGGATCCAGTGCTACTGCTACAATAAGGC
AAGTATACCTTCTTTTTCCCTCTCCCTACTCAACTTTCAAAGATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC217715 representing NM_173670

Red=Cloning site Green=Tags(s)

MIRKKRKRSAPPGPCRSHGPRPATAPPPSPPEPTRPAWTGMGLRAAPSSAAAAAEEVQRRRPGLCPPP
LELLLLLLFSLGLLHAGDCQQPAQCRIQKCTTDFVSLTSHLNSAVDGFDFSEFCKALRAYAGCTQRTSKAC
RGNLVYHSAVLGISDLSQRNCSKDGPTSTNPEVTHDPCNYHSHAGAREHRRGDQNPPSYLFCGLFGDP
HLRTFKDNFQTKVEGAWPLIDNNYLSVQVTNVPVPGSSATATNKASIPSFPLPTQLSKDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

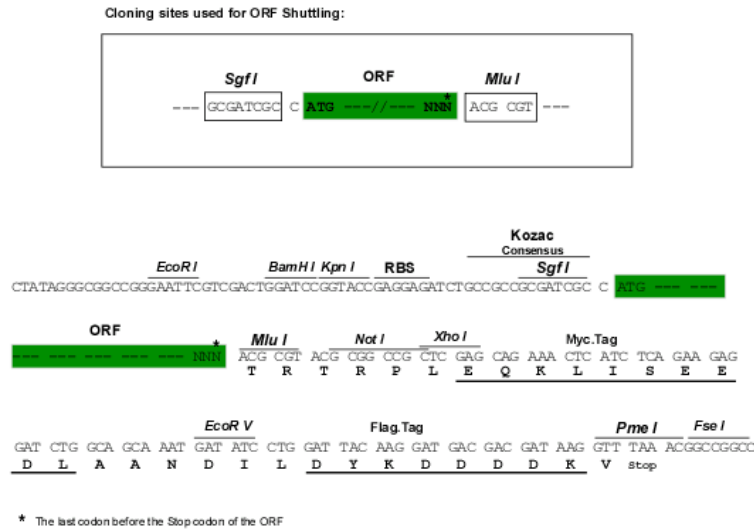
Chromatograms:

https://cdn.origene.com/chromatograms/mk8048_e07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_173670

ORF Size:

819 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:

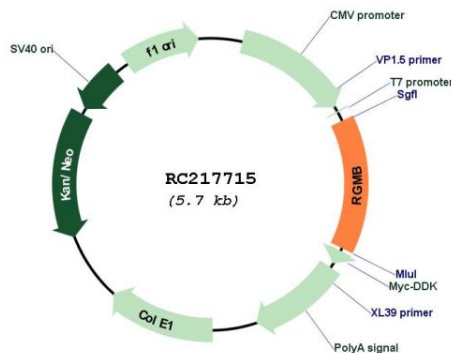
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_173670.2, NP_775941.1</u>
RefSeq Size:	2511 bp
RefSeq ORF:	821 bp
Locus ID:	285704
Cytogenetics:	5q15
MW:	29.9 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 RC217715