

Product datasheet for MR221863

Rgs9bp (NM_145840) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs9bp (NM_145840) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs9bp
Synonyms:	R9AP; Rgs9-1bp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221863 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGAGGAGTGCAAGGCGCTGCTGGACGCGCTCAACAAGACCACAGCGTGCTACCATCACTTAG
TGCTTACTGTGGGCGGCTCCGCGGACACTCAGGACCTACGCGAAGAGCTGCAGAAGACCCGCCAGAAGGC
GCGGGAGCTGGCCGTGGCCACCGCGCCCGGTTGACCGTCGCGCTCCGGGACCGGAGCTTAGCTACCGAG
GAGCGCGCGGAGTTTGGCGGCTCTGGGTGGCCTTTTTCAGGCTGCCTGGACCTGCTCGAAGCCGACATGC
AGCGCGCACTAGCGCTGGGAGCCACCTTCCCGCTGCACGCGCCGCGCCGCGCCACTTGTTGCACTGGGGT
GACGGGCGGCTCCTCTGCTGTAGCTGCGCGGCCCTGAGCGCCCGCAGCCTGCGGCACGAAGCGGAGAGC
GACTTCGATGTCGCCGATCTGCCCCAGTTGGAGCGCGAAGTCTCCAGGTGGGCGAGATGATCGACGACA
TGGAAATGAAAGTCAACGTGCCCCGCTGGACTGTACAGGCGCGACAAGCGGCAGACGCCGAACCTCTGTG
CGGTGCCAGTGCCGGCGCGTCTCAGCCGGTGGCATTTCGGTAGAGGAGCGCGCGGGCCCTGCGACCCC
AGCAAGGCCCTGGCTGCCACCGTTTTACGCGCCGTGCTGTTGGTGGCTGTGGCCCTCGCCTATGTGTGG
CAAAGCTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221863 protein sequence
 Red=Cloning site Green=Tags(s)

MAREECKALLDALNKTTACYHHLVLTVGGASDTQDLREELQKTRQKARELAVATGARLTVALRDRSLATE
 ERAEFERLWVAFSGCLDLLLEADMQRALALGATFPLHAPRRPLVRTGVTGGSSAVAARALSARSLRHEAES
 DFDVADLPQLEREVLQVGEMIDMEMKVNVPRTVQARQAADAELLSGASAGASSAGGISVEERAGPCDP
 SKALAATVFSAVLLVAVALALCVAKLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145840

ORF Size: 714 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.

RefSeq: [NM_145840.1](#), [NM_145840.2](#), [NM_145840.3](#), [NP_665839.1](#)

RefSeq Size: 6604 bp

RefSeq ORF: 714 bp

Locus ID: 243923

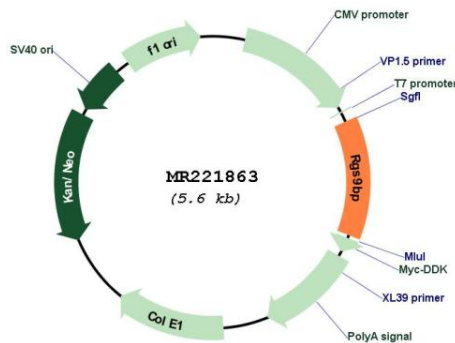
UniProt ID: [Q148R9](#)

Cytogenetics: 7 B2

MW: 25.2 kDa

Gene Summary: Regulator of G protein-coupled receptor (GPCR) signaling in phototransduction. Participates in the recovery phase of visual transduction via its interaction with RGS9-1 isoform. Acts as a membrane-anchor that mediates the targeting of RGS9-1 to the photoreceptor outer segment, where phototransduction takes place. Enhances the ability of RGS9-1 to stimulate G protein GTPase activity, allowing the visual signal to be terminated on the physiologically time scale. It also controls the proteolytic stability of RGS9-1, probably by protecting it from degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221863