

## Product datasheet for MC213181

### Rgs9bp (NM\_145840) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs9bp (NM_145840) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs9bp
Synonyms:	R9AP; Rgs9-1bp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC213181 representing NM_145840 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGAGAGGAGTGCAAGGCGCTGCTGGACGCGCTCAACAAGACCACAGCGTGCTACCATCACTTAG  
TGCTTACTGTGGGCGGCTCCGCGGACACTCAGGACCTACGCGAAGAGCTGCAGAAGACCCGCCAGAAGGC  
GCGGGAGCTGGCCGTGGCCACCGCGCCCGTTGACCGTCGCGCTCCGGACCGGAGCTTAGCTACCGAG  
GAGCGCGCGGAGTTTGGCGGCTCTGGGTGGCCTTTTTCAGGCTGCCTGGACCTGCTCGAAGCCGACATGC  
AGCGCGCACTAGCGCTGGGAGCCACCTTCCCGCTGCACGCGCCGCGCCGCGCCACTTGTTGCGACTGGGGT  
GACGGGCGGCTCCTCTGCTGTAGCTGCGCGGCCCTGAGCGCCCGCAGCCTGCGGCACGAAGCGGAGAGC  
GACTTCGATGTCGCCGATCTGCCCCAGTTGGAGCGCGAAGTCTCCAGGTGGGCGAGATGATTGACGACA  
TGGAAATGAAAGTCAACGTGCCCCGCTGGACTGTACAGGCGCGACAAGCGGCAGGCGCCGAACCTCTGTG  
CGGTGCCAGTGCCGGCGCGTCTCAGCCGGTGGCATTTCGGTAGAGGAGCGCGCGGGCCCTGCGACCCC  
AGCAAGGCCCTGGCTGCCACCGTTTTTCAGCGCCGTGCTGTTGGTGGCTGTGGCCCTCGCCTATGTGTGG  
CAAAGCTGAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_145840
Insert Size:	714 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145840.3</a> , <a href="#">NP_665839.1</a>
<b>RefSeq Size:</b>	6604 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	243923
<b>UniProt ID:</b>	<a href="#">Q148R9</a>
<b>Cytogenetics:</b>	7 B2
<b>Gene Summary:</b>	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]