

Product datasheet for **RG218269**

RGS9BP (NM_207391) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS9BP (NM_207391) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RGS9BP
Synonyms: PERRS; R9AP; RGS9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218269 representing NM_207391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGGGAGGAGTGCAAGGCGCTGCTGGACGGCTCAACAAGACGACTGCGTGCTACCACCACCTGG
TGCTGACCGTCCGGTGGCTCGGCGGACTCGCAGAACCTGCGGCAGGAGCTGCAAAAGACGCGCCAGAAGGC
GCAGGAGCTGGCGGTGTCCACCTGCGCCCGCTGACTGCTGTGCTGCGGACCGGGGCTGGCCCGCAG
GAGCGCGCCGAGTTCGAGCGGCTCTGGGTGGCCTTCTCGGGCTGCCTGGACCTGCTGGAAGCGGACATGC
GACGCTCGCTGGAGCTGGGCGCCGCTTCCCGCTGCACGCGCCGCGGCGACCGCTGGTGGCACAGGTGT
GGCTGGCGCCTCCTCCGGCGTGGCGGCGCGCGCTGAGCACCCGACGCTGCGGCTCGAGCGGAGGGC
GACTTCGACGTCGCGGACCTGCGGGAGCTGGAGCGGAGGTCTTCAGGTGGGCGAGATGATCGACAACA
TGGAGATGAAGGTCAACGTGCCCGCTGGACCGTGCAAGCCCGCAGGCGGCGGGCGCCGAGCTCCTGTC
CACGGTCAGCGCCGCGCCCTCCTCGGTGCTGCTTGCAGGAGCGCGGGGGGGTTGCGACCCAGGAAG
GCCCTGGCCGCCATCCTTTTCGGCGCCGTGCTGCTGGCGGCTGTGGCCCTAGCCGTGTGCGTGGCGAAGC
TGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218269 representing NM_207391
Red=Cloning site Green=Tags(s)

MAREECKALLDGLNKTACYYHLLVLTVGGSSADSQNLRQELQKTRQKAQELAVSTCARLTAVLRDRGLAAD
 ERAEFERLWVAFSGCLDLLLEADMRRSLELGAAPLHAPRRPLVRTGVAGASSGVAARALSTRSLRLEAEG
 DFDVADLRELEREVLQVGEMIDNMEMKVNVPRTVQARQAAGAE LLSTVSAGPSSVVSLQERGGGCDPRK
 ALAAILFGAVLLAAVALAVCVAKLS

TRTRPLE - GFP Tag - V

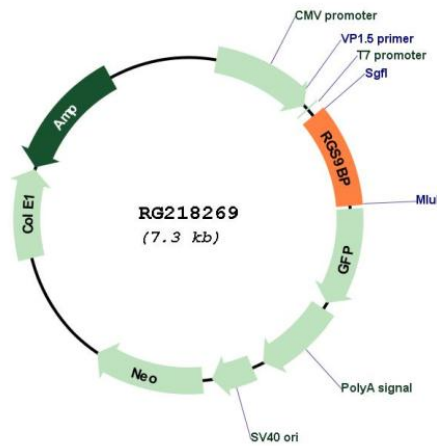
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_207391

ORF Size: 705 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:	<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:	NM_207391.1 , NP_997274.1
RefSeq Size:	3122 bp
RefSeq ORF:	708 bp
Locus ID:	388531
UniProt ID:	Q6ZS82
Cytogenetics:	19q13.11
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene functions as a regulator of G protein-coupled receptor signaling in phototransduction. Studies in bovine and mouse show that this gene is expressed only in the retina, and is localized in the rod outer segment membranes. This protein is associated with a heterotetrameric complex, specifically interacting with the regulator of G-protein signaling 9, and appears to function as the membrane anchor for the other largely soluble interacting partners. Mutations in this gene are associated with prolonged electroretinal response suppression (PERRS), also known as bradyopsia. [provided by RefSeq, Mar 2010]