

Product datasheet for **RG205348**

RGS9 (NM_001081955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RGS9
Synonyms:	PERRS; RGS9L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205348 representing NM_001081955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAGGAAGTGATGTTCTGCAATGGATCGTCCAGCGGCTTTGGATCTCCAGTCTGGAGGCACAGA
 AACTTGGGCAACTTTATTGTCAAGGTATGGCTACATTTACCCCTGCAAGACCCCAAGAATCTCATTCTCAAGCC
 TGATGGCAGCCTCTACAGATTTAGACACCGTATTTCTGGCCACCCAGCAGTGGCCAGCTGAAGATACG
 GATTACGCCATCTATCTGGCCAAGCGAAATATCAAAAAGAAAGGGATTTTGAAGAATATGAAAAGGAAA
 ATTACAATTTCTGAACCAAAAAATGAACATAAGTGGGACTTTGTCTTATGCAGGCCAAGAGCAGTA
 CAGGGCTGGAAAAGGAGAGGAACAAAGCAGACAGATATGCCCTGGACTGCCAGGAGAAGGCATCTGGCTG
 GTGCACCGATGCCCTCTGGAATGGACAATGTGCTGGACTACGGCTGGACCGAGTGACCAATCCGAATG
 AAGTCAAGAAACAAACAGTCGTTGCTGTCAAAAAGAGATCATGTATTACCAACAGGCCTTGATGAGGTC
 CACAGTGAAGTCTTCTGTGTCCTGGGAGGGATTGTGAAATACAGTGAGCAGTTCTCATCCAACGATGCC
 ATCATGTGAGGCTGCCTCCCAAGCAACCCCTGGATCACCGATGACACCAAGTTCTGGGACTTAAATGCCA
 AATTGGTGGAAATCCCAACCAAGATGCGAGTGGACGATGGGCCTTCAACTTCAGCGAATTGATCCGAGA
 CCCCAGGTCGACAGAGCTTCCAGTACTTCTCAAGAAAGAAATTCAGTGGAGAGAATCTGGGATTCTGG
 GAAGCCTGCGAGGATCTGAAGTATGGAGATCAGTCCAAAGTCAAGGAGAAAGCAGAGGAGATTTACAAGC
 TGTTCCTGGCCCCGGGGCGAGGCGCTGGATCAACATAGATGGCAAAACCATGGACATCACAGTGAAGGG
 GCTGAAGCACCCCCACCGCTATGTGCTGGACGCCGACAAACCCACATTTACATGCTCATGAAGAAGGAT
 TCTTATGCTCGCTATTTAAATCTCCGATCTATAAGGACATGCTGGCCAAAGCTATTGAACCTCAGGAAA
 CCACCAAGAAAAGCTCCACCTCCCTTTTATGCGGCGTCACCTGCGCTCCAGCCCAAGCCCTGTCTCCT
 GAGACAGCTGGAAGAGGAAGCCAAGGCCCGAGAAGCAGCCAACACTGTGGACATCACCCAGCCGGGCCAG
 CACATGGCTCCAGCCCCCATCTGACCGTGTACACCGGACCTGCATGCCCCCGTCTCCTTCTAGCCCT
 TCTCCTCCTCCTGCCGCTCCCCAGGAAGCCTTTCGCCTCACCCAGCCGCTTCATCCGGCGACCCAGCAC
 CACCATCTGCCCTCACCCATCAGAGTGGCCTTGGAGAGCTCATCGGCTTGGAGCAGAAAGGGGAGTGC
 AGCGGGTCCATGGCCCCCGTGGGCCCTCTGTACCGAGAGCAGCGAGGCCTCCCTCGACACCTCCTGGC
 CTCGACGCCGGCCAGGGCCCCCTCTAAGGCCCGCATGGCTCTGTCTTCCAGCAGGTTTCTGAGACGAGG
 CTGTCTGGCCTCACCTGTCTTGGCAGGCTCTACCCAAGTGCCTGCTGTGTCCACGGGAGGGTGCAG
 CCCCTGGGGACGTGGGCCAGCAGTGCCACGATTGAAATCCAAGAGAGTAGCAAACCTTTTCCAGATCA
 AAATGGATGTGCCACGGGGAGCGGGACCTGCTTGATGGACTCGGAGGATGCTGGAACAGGAGAGTCGGG
 TGACCGGGCCACAGAAAAGGAGGTCTCTGCCCTGGGAGAGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205348 representing NM_001081955
 Red=Cloning site Green=Tags(s)

MTGSDVLQWIVQRLWISSLEAQNLFIVRYGYIPLQDPKNLILKPDGSLYRFQTPYFWPTQQWPAEDT
 DYAIYLAKRNIKKKGIILEEYKENYNFLNQKMNYKWDFVIMQAKEQYRAGKERNKADRYALDCQEKAYWL
 VHRCPGMDNVLDYGLDRVTNPNEVKKQTVVAVKKEIMYYQALMRSTVKSSVSLGGIVKYSEQFSSNDA
 IMSGCLPSNPWITDDTKFWDNLAKLVEIPTKMRVERWAFNFSELIRDPKGRQSFQYFLKKEFSGENLGFW
 EACEDLKYGDQSKVKEKAEIYKFLAPGARRWINIDGKTMDITVKGLKHPHYVLDAAQTHIYMLMKD
 SYARYLKSPIYKMLAKAIEPQETTKSSSTLPFMRRLRSPSPVILRQLEEEAKAREAAANTVDITQPGQ
 HMAPSPHLTVYTGTMPSPSPSPSSCRSPRPFASPSRFIRRPSTTICPSPIRVALESSSGLEQKGE
 SGSMAPRGPSVTESEASLDTSWPRSRPRAPPKARMALSF SRFLRRGLASPVFARLSPKCPAVSHGRVQ
 PLGDVGQQLPRLKSKRVANFFQIKMDVPTGSGTCLMSEDA GTGESGDRATEKEVICPWESL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081955

ORF Size: 1866 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: [NM_001081955.1](#), [NP_001075424.1](#)

RefSeq Size: 2438 bp

RefSeq ORF: 2016 bp

Locus ID: 8787

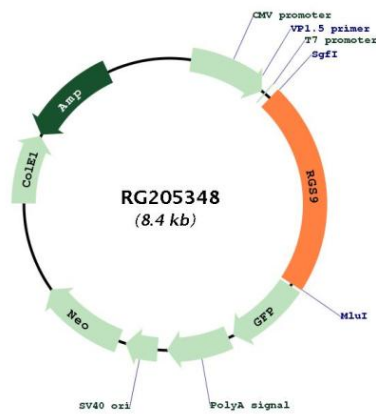
UniProt ID: [O75916](#)

Cytogenetics: 17q24.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the RGS family of GTPase activating proteins that function in various signaling pathways by accelerating the deactivation of G proteins. This protein is anchored to photoreceptor membranes in retinal cells and deactivates G proteins in the rod and cone phototransduction cascades. Mutations in this gene result in bradyopsia. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RG205348