OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG228398

RGS9 (NM_001165933) 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:

>RG228398 representing NM_001165933
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAATCCGACACCAAGGCCAGCAGTACAGGCCGAGGATGGCATTTCTCCAAAAGATTGAAGCGCTCG
TGAAGGACATGCAGAACCCAGAGACAGGGGTCCGAATGCAGAACCAGAGGGTCCTGGTCACCAGCGTTCC
TCATGCCATGACAGGAAGTGATGTTCTGCAATGGATCGTCCAGCGGCTTTGGATCTCCAGTCTGGAGGCA
CAGAACTTGGGCAACTTTATTGTCAGGTATGGCTACATTTACCCCCTGCAAGACCCCAAGAATCTCATTC
TCAAGCCTGATGGCAGCCTCTACAGATTTCAGACACCGTATTTCTGGCCCACCCAGCAGTGGCCAGCTGA
AGATACCGATTACGCCATCTATCTGGCCAAGCGAAATATCAAAAAGAAAGGGATTTTGGAAGAATATGAA
AAGGAAAATTACAATTTCTTGAACCAAAAAATGAACTATAAGTGGGACTTTGTCATTATGCAGGCCAAAG
AGCAGTACAGGGCTGGAAAGGAGAGGAACAAAGCAGACAGATATGCCCTGGACTGCCAGGAGAAGGCATA
CTGGCTGGTGCACCGATGCCCTCCTGGAATGGACAATGTGCTGGACTACGGCCTGGACCGAGTGACCAAT
CCGAATGAAGTCAAGAAACAAACAGTCGTTGCTGTCAAAAAAGAGATCATGTATTACCAACAGGCCTTGA
TGAGGTCCACAGTGAAGTCTTCTGTGTCCCTGGGAGGGATTGTGAAATACAGTGAGCAGTTCTCATCCAA
CGATGCCATCATGTCAGGCTGCCTCCCCAGCAACCCCTGGATCACCGATGACACCCAGTTCTGGGACTTA
AATGCCAAATTGGTGGAAATCCCAACCAAGATGCGAGTGGAACGATGGGCCTTCAACTTCAGCGAATTGA
TCCGAGACCCCAAAGGTCGACAGAGCTTCCAGTACTTCCTCAAGAAAGAATTCAGTGGAGAGAATCTGGG
ATTCTGGGAAGCCTGCGAGGATCTGAAGTATGGAGATCAGTCCAAAGTCAAGGAGAAAGCAGAGGAGATT
TACAAGCTGTTCCTGGCCCCGGGGGCGAGGCGCTGGATCAACATAGATGGCAAAACCATGGACATCACAG
TGAAGGGGCTGAAGCACCCCCACCGCTATGTGCTGGACGCCGCACAAACCCACATTTACATGCTCATGAA
GAAGGATTCTTATGCTCGCTATTTAAAATCTCCGATCTATAAGGACATGCTGGCCAAAGCTATTGAACCT
CAGGAAACCACCAAGAAAAGCTCCACCCTCCCTTTTATGCGGCGTCACCTGCGCTCCAGCCCAAGCCCTG
TCATCCTGAGACAGCTGGAAGAGGAAGCCAAGGCCCGAGAAGCAGCCAACACTGTGGACATCACCCAGGT
CATGAGCAAGCTGGACCGCAGGAGCCAACTCCAAAAAGAGCTGCCTCCTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

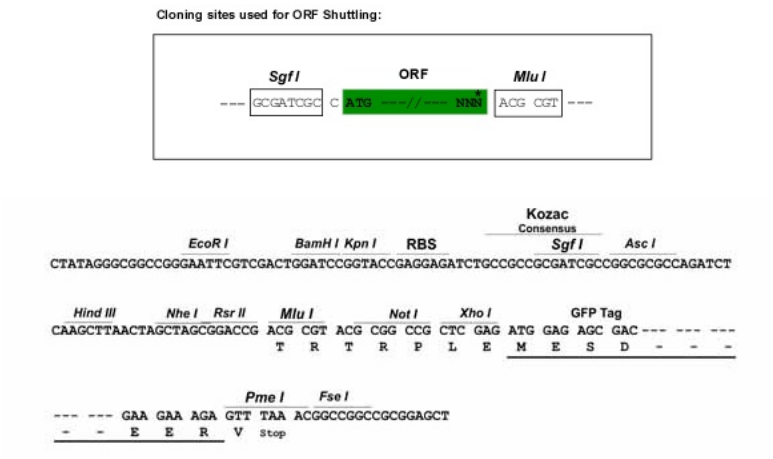
>RG228398 representing NM_001165933
Red=Cloning site Green=Tags(s)

MTIRHQGQQYRPRMAFLQKIEALVKDMQNPETGVRMQNQRVLVTSVPHAMTGSDVLQWIVQRLWISSLEA
QNLGNFIVRYGYIYPLQDPKNLILKPDGSLYRFQTPYFWPTQQWPAEDTDYAIYLAKRNIKKKGILEEYE
KENYNFLNQKMNYKWDFVIMQAKEQYRAGKERNKADRYALDCQEKAYWLVHRCPPGMDNVLDYGLDRVTN
PNEVKKQTVVAVKKEIMYYQQALMRSTVKSSVSLGGIVKYSEQFSSNDAIMSGCLPSNPWITDDTQFWDL
NAKLVEIPTKMRVERWAFNFSELIRDPKGRQSFQYFLKKEFSGENLGFWEACEDLKYGDQSKVKEKAEEI
YKLFLAPGARRWINIDGKTMDITVKGLKHPHRYVLDAAQTHIYMLMKKDSYARYLKSPIYKDMLAKAIEP
QETTKKSSTLPFMRRHLRSSPSPVILRQLEEEAKAREAANTVDITQVMSKLDRRSQLQKELPPK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165933

ORF Size: 1452 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:

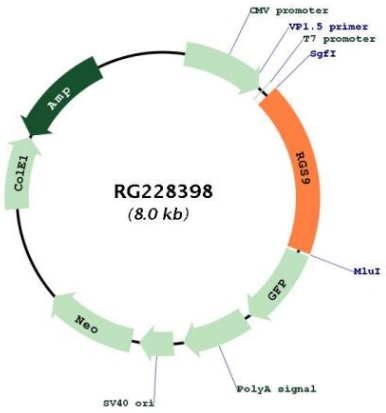
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001165933.2

RefSeq Size:	1658 bp
RefSeq ORF:	1455 bp
Locus ID:	8787
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 RG228398