

Product datasheet for **RC228398**

RGS9 (NM_001165933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RGS9
Synonyms:	PERRS; RGS9L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228398 representing NM_001165933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAATCCGACACCAAGGCCAGCAGTACAGGCCGAGGATGGCATTCTCCAAAAGATTGAAGCGCTCG
 TGAAGGACATGCAGAACCAGAGACAGGGTCCGAATGCAGAACCAGAGGGTCTGGTCACCAGCGTTCC
 TCATGCCATGACAGGAAGTGATGTTCTGCAATGGATCGTCCAGCGGCTTTGGATCTCCAGTCTGGAGGCA
 CAGAACTTGGGCAACTTTATTGTCAAGTATGGCTACATTTACCCCTGCAAGACCCCAAGAATCTCATTCT
 TCAAGCCTGATGGCAGCCTCTACAGATTTACAGACCGTATTTCTGGCCACCCAGCAGTGGCCAGCTGA
 AGATACCGATTACGCCATCTATCTGGCCAAGCGAAATATCAAAAAGAAAGGGATTTTGGAAAGAAATGAA
 AAGGAAATTACAATTTCTGAACCAAAAAATGAACTATAAGTGGGACTTTGTCAATTATGCAGGCCAAAG
 AGCAGTACAGGGCTGGAAGGAGAGGAACAAGCAGACAGATATGCCCTGGACTGCCAGGAGAAGGCATA
 CTGGCTGGTGCACCGATGCCCTCTGGAATGGACAATGTGCTGGACTACGGCTGGACCGAGTGACCAAT
 CCGAATGAAGTCAAGAAACAAACAGTCGTTGCTGTCAAAAAAGAGATCATGTATTACCAACAGGCCCTTGA
 TGAGGTCCACAGTGAAGTCTTCTGTGTCCCTGGGAGGGATTGTGAAATACAGTGAAGTCTCTCATCAA
 CGATGCCATCATGTCAAGCTGCCTCCCAAGCAACCCCTGGATCACCAGTACACCCAGTTCTGGGACTTA
 AATGCCAAATTGGTGGAAATCCCAACCAAGATGCGAGTGGAAACGATGGGCCTTCACTTCAAGCAATTTGA
 TCCGAGACCCCAAGGTCGACAGAGCTTCCAGTACTTCTCAAGAAAGAAATTCAGTGGAGAGAACTGGG
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 TACAAGCTGTTCTGGCCCCGGGGGCGAGGCGCTGGATCAACATAGATGGCAAAACCATGGACATCACAG
 TGAAGGGCTGAAGCACCCCAACCGCTATGTGCTGGACGCCGACAAACCCACATTTACATGCTCATGAA
 GAAGGATTCTTATGCTCGCTATTTAAATCTCCGATCTATAAGGACATGCTGGCCAAAGCTATTGAACCT
 CAGGAAACCAAGAAAGCTCCACCTCCCTTTTATGCGGCGTCACCTGCGCTCCAGCCCAAGCCCTG
 TCATCTGAGACAGCTGGAAGAGGAAGCAAGGCCCGAGAAGCAGCAACACTGTGGACATACCCAGGT
 CATGAGCAAGCTGGACCGCAGGAGCCAACCTCAAAAAGAGCTGCCTCCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228398 representing NM_001165933
 Red=Cloning site Green=Tags(s)

MTIRHQGQQYRPRMAFLQKIEALVKDMQNPETGVRMQNQRVLVTSVPHAMTGSDVLQWIVQRLWISSLEA
 QNLGNFIVRYGYIYPLQDPKNILKPDGSLYRFQTPYFWPTQQWPAEDTDYAIYLAKRNIKKKGILEEYE
 KENYNFLNQKMNYKWDFVIMQAKEQYRAGKERNKADRYALDCQEKAYWLVHRCPPGMDNVLDYGLDRVNT
 PNEVKKQTVVAVKKEIMYYQALMRSTVKSSVSLGGIVKYSEQFSSNDAIMSGCLPSNPWITDDTQFWDL
 NAKLVEIPTKMRVERWAFNSELIRDPKGRQSFQYFLKKEFSGENLGFWEACEDLKYGDQSKVKEAEIE
 YKLFLAPGARRWINIDGKTMIDITVKGLKHPHRYVLDAAQTHIYMLMKDSYARYLKSPIYKDMMLAKAIEP
 QETTKKSSSTLPFMRRLRSPSPVILRQLEEEAKAREAAANTVDITQVMSKLDRRSQLQKELPPK

TRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8064_g11.zip

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.

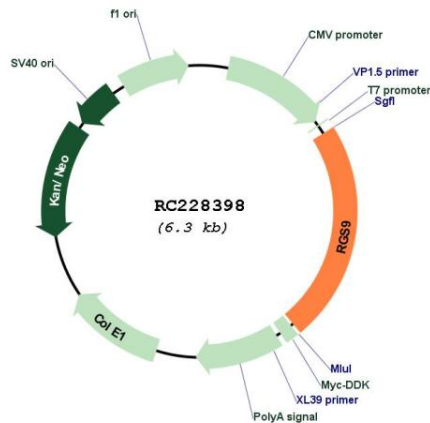
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001165933.2](#)

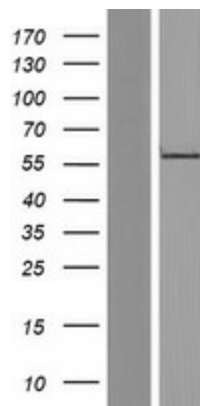
RefSeq ORF: 1455 bp

Locus ID:	8787
Cytogenetics:	17q24.1
Protein Families:	Druggable Genome
MW:	56.6 kDa
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 RC228398



Western blot validation of overexpression lysate (Cat# [LY431426]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228398 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).