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Product datasheet for RC224058

RGS3 (NM_130795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_130795) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224058 representing NM_130795
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCGCTTCAATGGGCTCTGCAAGGTGTGCTCGGAGCGCCGCTACCGCCAGATCACCATCCCGAGGG
GAAAGGACGGCTTTGGCTTCACCATCTGCTGCGACTCTCCAGTTCGAGTCCAGGCCGTGGATTCCGGGGG
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CCTCCAGTCACCCCCCAACAAACGGGAGAAGAACTGCACCCATGGGGTCCAGGCACGGCCTGAGCAGCGC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224058 representing NM_130795
Red=Cloning site Green=Tags(s)

MNRFNGLCKVCSERRYRQITIPRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDTVLQLNERPVEH
WKCVELAHEIRSCPSEIILLVWRMVPQVKPGPDGGVLRRASCKSTHDLQSPPNKREKNCTHGVQARPEQR
HSCHLVCDSSDGLLLGGWERYTEVAKRGGQHTLPALSRATAPTDPNYIILAPLNPGSQLLRPVYQEDTIP
EESGSPSKGKSYTGLGKKSRLMKTVQTMKGHGNYQNCPVVRPHATHSSYGTYVTLAPKVLVFPVFVQPLD
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ATGDPPAAPRPAFVIPEVRLDSTYSQKAGAEQGCSGDEEDAEEAEEVEEGEEGEEDEDEDTSDDNYGERS
EAKRSSMIETGQGAEGGLSLRVQNSLRRRTHSEGSLLQEPRGPCFASDTTLHCSDGEGAASTWGMPSPST
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KADKMMKSFKPTSEEALKWGESLEKLLVHKYGLAVFQAFLRTEFSEENLEFWLACEDFKKVKSQSKMASK
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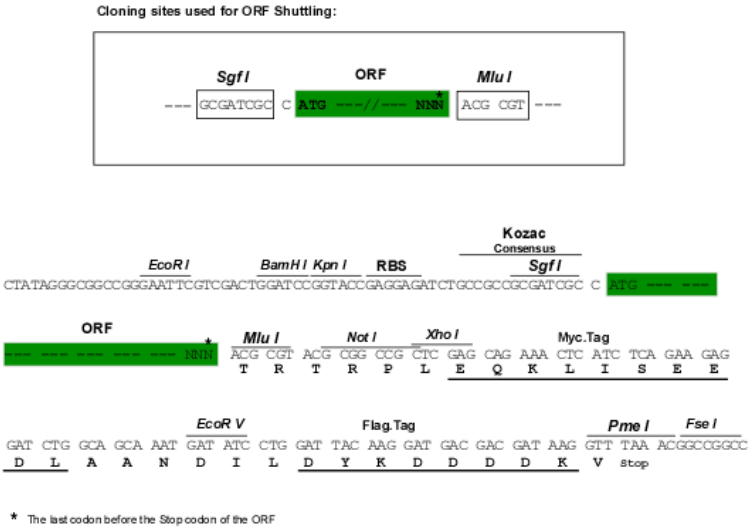
KKMSPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6252_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

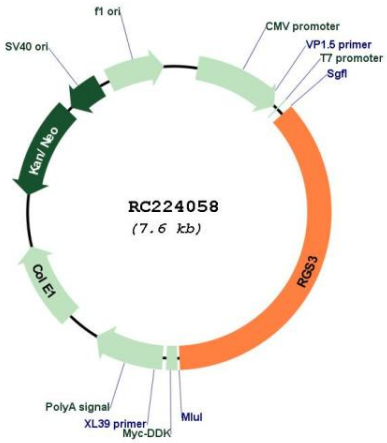


ACCN: NM_130795

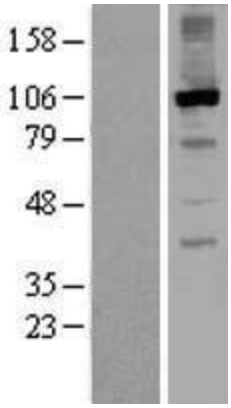
ORF Size: 2751 bp

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.
RefSeq:	NM_130795.4
RefSeq Size:	3741 bp
RefSeq ORF:	2754 bp
Locus ID:	5998
UniProt ID:	P49796
Cytogenetics:	9q32
Domains:	RGS, PDZ
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance
MW:	100.8 kDa
Gene Summary:	This gene encodes a member of the regulator of G-protein signaling (RGS) family. This protein is a GTPase-activating protein that inhibits G-protein-mediated signal transduction. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. Long isoforms are largely cytosolic and plasma membrane-associated with a function in Wnt signaling and in the epithelial mesenchymal transition, while shorter N-terminally-truncated isoforms can be nuclear. [provided by RefSeq, Jan 2013]

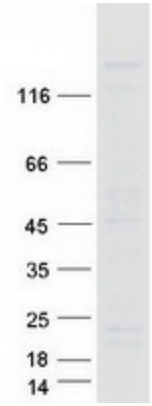
Product images:



Circular map for RC224058



Western blot validation of overexpression lysate (Cat# [LY408949]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224058 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RGS3 protein (Cat# [TP324058]). The protein was produced from HEK293T cells transfected with RGS3 cDNA clone (Cat# RC224058) using MegaTran 2.0 (Cat# [TT210002]).