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Product datasheet for RC206857

RGS5 (NM_003617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS5 (NM_003617) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGS5
Synonyms:	MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206857 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCAAAGGACTTGCAGCTTTGCCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTGG
GAATTCTCCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCATTCCGTACAATGAGAAGCCAGAGAAACC
AGCCAAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATTCCCTGGACAAACTCCTGCAG
AACAACTATGGACTTGCCAGTTTCAAAAGTTTCCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT
GGATTGCCTGTGAGGATTACAAGAAGATCAAGTCCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTA
TGAAGAATTCATTCAAACGGAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAATG
AAGAACCTGGTGGAACCTTCCCTGAGCAGCTTTGACATGGCCCAGAAAAGAATCCATGCCCTGATGGAAA
AGGATTCTCTGCCTCGCTTTGTGCGCTCTGAGTTTTATCAGGAGTTAATCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206857 protein sequence
Red=Cloning site Green=Tags(s)

MCKGLAALPHSCLERAKEIKIKLGILLQKPDSVGDLVIPYNEKPEKPAKTQKTSLDEALQWRDSLDKLLQ
NNYGLASFKSFLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEEFIQTEAPKEVNIDHFTKDITM
KNLVEPSLSSFDMAQKRIHALMEKDSLPRFVRSEFYQELIK

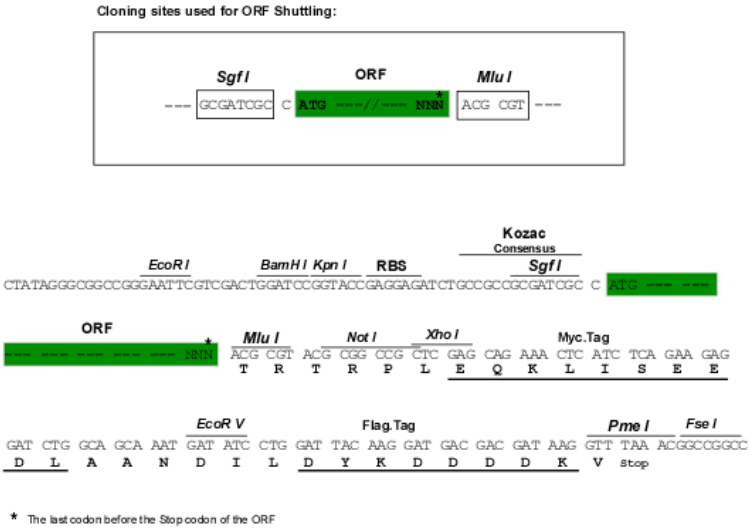
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6066_b03.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003617

ORF Size: 543 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.

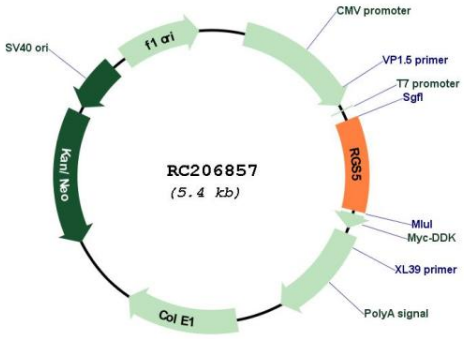
RefSeq: NM_003617.4

RefSeq Size: 5927 bp

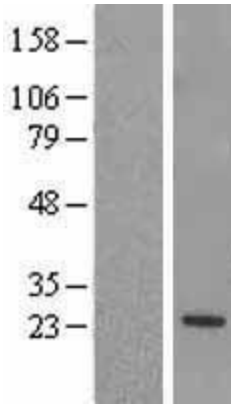
RefSeq ORF: 546 bp

Locus ID:	8490
UniProt ID:	O15539
Cytogenetics:	1q23.3
Domains:	RGS
Protein Families:	Druggable Genome
MW:	20.9 kDa
Gene Summary:	This gene encodes a member of the regulators of G protein signaling (RGS) family. The RGS proteins are signal transduction molecules which are involved in the regulation of heterotrimeric G proteins by acting as GTPase activators. This gene is a hypoxia-inducible factor-1 dependent, hypoxia-induced gene which is involved in the induction of endothelial apoptosis. This gene is also one of three genes on chromosome 1q contributing to elevated blood pressure. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC206857



Western blot validation of overexpression lysate (Cat# [LY418548]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).