

Product datasheet for RR213486

Rgs5 (NM_019341) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Rgs5 (NM_019341) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Rgs5
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR213486 representing NM_019341
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGTAAGGGACTGGCAGCTCTGCCACACTCATGCCTGGAAAGGGCCAAAGAGATCAAGATCAAATTGG
 GTATTCTTCTCCAGAAGCCAGACTCTGCTGTTGACCTTGTCATTCCATATAATGAGAAGCCAGAGAAGCC
 TGCCAAGGCGCACAAAGCCCTCGCTGGAGGAGTCTGCAATGGCGCAATCCCTGGACAACTTCTCCAG
 AGCAACTACGGATTTGCCAGCTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT
 GGGTTGCCTGTGAGAATTACAAGAAGATCAAGTCCCCATCAAATGGCAGAGAAGGCAAAGCAAATCTA
 TGAAGAATTCATCCAGACAGAGGCCCTAAAGAGGTGAACATTGACCACTTCACTAAAGACATCACCATG
 AAGAACCTGGTGGAACTTCCCCTCACAGCTTTGACCTGGCCAGAAAAGGATCTACGCCCTGATGGAGA
 AGGATTCTCTGCCCGCTTCGTGCGCTCTGAGTTTATAAGGAGTTAATCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213486 representing NM_019341
 Red=Cloning site Green=Tags(s)

MCKGLAALPHSCLERAKEIKIKLIGILLQKPDSDVLDVIPYNEKPEKPAKAHKPSLEEVLQWRQSLDKLLQ
 SNYGFASFKSFLKSEFSEENLEFWACENYKKIKSPIKMAEKAKQIYEYEQTEAPKEVNIHFTHDKDITM
 KNLVEPSPHSFDLAQKRIYALMEKDSLPRFVRSEFYKELIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

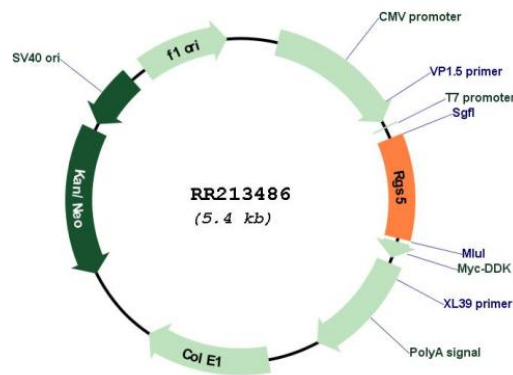


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Cloning Scheme:



Plasmid Map:



ACCN: NM_019341

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:	<ol style="list-style-type: none">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:	<u>NM_019341.1, NP_062214.1</u>
RefSeq Size:	546 bp
RefSeq ORF:	546 bp
Locus ID:	54294
UniProt ID:	<u>P49800</u>
Cytogenetics:	13q24
MW:	21.1 kDa
Gene Summary:	inhibits G-protein coupled receptor signaling by activating Galpha subunit GTP hydrolysis; inhibits angiotensin AT1a receptor signaling [RGD, Feb 2006]