

Product datasheet for **MR219776**

Rgs20 (NM_021374) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs20 (NM_021374) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs20
Synonyms:	2900073E09Rik; Rgsz1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR219776 representing NM_021374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGCACGGCCAACGGAGGCCCGAGGGCCAGAGCTTCCCCTTCGGCTAGCCCAGCGGACCCTGGCCTGC
CTGAGGGATCTGAGCGGACGAAATGCGGATGCGGCAGATGTGCGGCGGAAGTGAGACCCAGGGCCCTGC
CCCAAGCCAGCAGGGTGGCCGGGGCTCCAACGCCTGCTGCTTCTGTTGGTGTCTGCTGCACCTGTTCT
TGCTCACTGTCAGAAACCAAGAAGACCAGAGACCCAAAGAGCCTCCCATGAAATCAGAACAGACATTC
CAGCATGTGAAGAAAGCCCCACGCCTACTCTGGAAGAAGTCTGTGCCTGGGCCAGTCTTTTGATAACCT
GATGGTCACTCCAGCCGGAAGAAATGCATTCCGGGAATTTCTTGAACAGAATTCAGTGAAGAAAACATG
CTCTTCTGGATGGCCTGTGAAGAACTGAAAAGGGAAGCTAATAAAAGCACTATTGAGGAGAAAGCAAGGA
TAATCTATGAGGACTATATTTCTATTCTCTCCTAAAGAGGTCAGCTTGGACTCCCGAGTACGAGAGGT
TATCAACAGAAACATGGTGGATCCATCCCAGCACATATTCGATGACGCTCAACTGCAGATCTACACTCTA
ATGCACAGAGACTCCTATCCCCGCTTCATGAACTCCACAGTCTATAAGGATTTGCTTACGTCCTTAGCTG
AGAAAACAGTTGAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR219776 representing NM_021374
Red=Cloning site Green=Tags(s)

MRTANGGPRARASPSASPADPGLPEGSERTEMRMRQMC GGSETQGPAPSQQGGRGSNACCFWCCCCTCS
 CLTVRNQEDQRPQRASHEIRTDIPACEESPTPTLEEVCWAQSFNLMVTPAGRNAFREFLRTEFSEENM
 LFWMAECEELKREANKSTIEEKARIYEDYISILSPKEVSLDSRVREVINRNMVDP SQHIFDDAQLQIYTL
 MHRDSYPRFMNSTVYKDLLTSLAEKTVEA

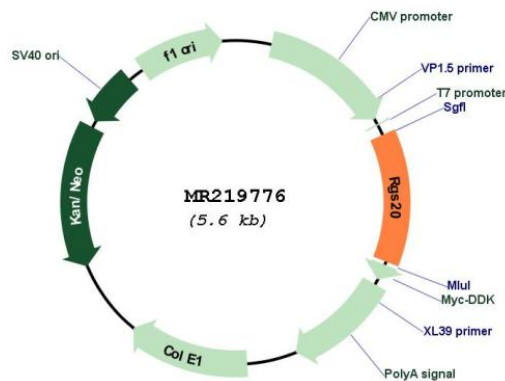
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021374

ORF Size: 717 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:	NM_021374.5 , NP_067349.2
RefSeq Size:	1665 bp
RefSeq ORF:	720 bp
Locus ID:	58175
UniProt ID:	Q9QZB1
Cytogenetics:	1 A1
MW:	27.4 kDa
Gene Summary:	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds selectively to G(z)-alpha and G(alpha)-i2 subunits, accelerates their GTPase activity and regulates their signaling activities. The G(z)-alpha activity is inhibited by the phosphorylation and palmitoylation of the G-protein. Negatively regulates mu-opioid receptor-mediated activation of the G-proteins. [UniProtKB/Swiss-Prot Function]