

Product datasheet for **RG213877**

RRAGB (NM_016656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RRAGB
Synonyms:	bA465E19.1; RAGB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG213877 representing NM_016656
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAAGAATCTGACTCTGAGAAAACGACGGAGAAAGAAAATCTGGGGCCGAGAATGGATCCACCACTAG
GGGAACCGGAAGGATCGCTTGGGTGGGTGCTACCAATACAGCCATGAAGAAAAAGGTGCTGTTGATGGG
TAAAGTGGGTCTGGTAAGACCAGCATGAGGTCTATTATCTTTGCAAAATATATTGCCAGAGACACACGT
CGCCTTGGCGCAACAATACTAGACCGTATACATAGTCTTCAAATTAATAGCAGTTTGAGCACCTACTCTC
TCGTAGACTCTGTTGAAATACAAAGACATTTGATGTAGAACATTCTCATGTTTCGATTCTGGGAAACCT
GGTATTGAACCTGTGGGATTGTGGTGGCAAGACACCTTCATGGAAAATTTTCACTAGCCAACGGGAC
AACATCTCCGAAATGTGGAGGTTCTGATTTATGTCTTTGATGTGGAGAGCCGCAACTGGAAAAGGACA
TGCACTATTACCAATCATGCCTGGAGGCCATTCTGCAGAAATCTCCAGATGCCAAAAATTTTGCTTGGT
ACACAAAATGGATCTGGTACAGGAGGATCAACGGGACCTGATTTTTAAAGAGCGAGAAGAAGATTTGAGG
CGTTTGTCTCGCCCATTTGGAATGTTCTTGTTCGAACATCTATCTGGGATGAAACCTCTATAAGGCTT
GGTCCAGCATAGTTATCAGCTGATTCCCAATGTTTCAGCAGCTGGAATGAACCTAAGGAATTTTGCTGA
AATTATCGAAGCTGATGAAGTACTTCTTTTGGAGAGCTACTTTCTGGTAATTTCTCACTATCAGTGT
AAAGAGCAGCGTGATGCCCATAGATTTGAGAAAATAAGCAACATTATTAAGCAGTTCAAGCTGAGCTGCA
GCAAGCTGGCTGCCTCTTTCCAGAGTATGGAAGTCAGGAACTCTAACTTCGCTGCTTTTCATTGACATCTT
TACATCCAACACTTATGTGATGGTTGTGATGTCTGATCCGTCATTCTCTGCAGCTACTCTGATCAAC
ATCCGCAATGCCAGGAACACTTTGAAAAGCTGAAAAGAGTGGATGGACCAAAGCAGTGTCTTCTCATGC
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



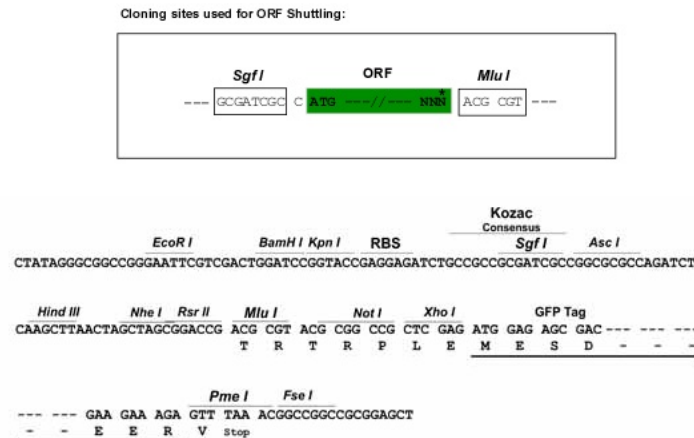
Protein Sequence: >RG213877 representing NM_016656
Red=Cloning site Green=Tags(s)

MEEEDSEKTEKENLGPRMDPPLGEPEGLGWLPNTAMKKVLLMGKSGSGKTSMRSIIFANYIARDTR
RLGATILDRIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFGLNLVLNLWDCGGQDTFMENYFTSQRD
NIFRNVEVLIYVFDVESRELEKDMHYYSQCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLR
RLSRPLECSCFRTSIWDETLKAWSSIVYQLIPNVQQLMNLNFAEIIIEADEVLLFERATFLVISHYQC
KEQRDAHRFEKISNIKQFKLSCSKLAASFQSMVEVRNSNFAAFIDIFTNTYVMVMVMSDPSIPSAATLIN
IRNARKHFEKLERVDGPKQCLLMR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016656

ORF Size: 1122 bp

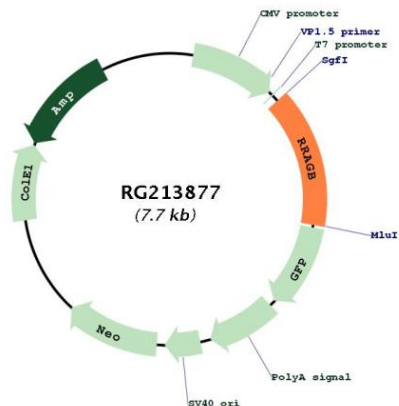
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_016656.4</u>
RefSeq Size:	2217 bp
RefSeq ORF:	1125 bp
Locus ID:	10325
UniProt ID:	<u>Q5VZM2</u>
Cytogenetics:	Xp11.21
Domains:	Gtr1_RagA
Gene Summary:	Ras-homologous GTPases constitute a large family of signal transducers that alternate between an activated, GTP-binding state and an inactivated, GDP-binding state. These proteins represent cellular switches that are operated by GTP-exchange factors and factors that stimulate their intrinsic GTPase activity. All GTPases of the Ras superfamily have in common the presence of six conserved motifs involved in GTP/GDP binding, three of which are phosphate-/magnesium-binding sites (PM1-PM3) and three of which are guanine nucleotide-binding sites (G1-G3). Transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213877