

Product datasheet for **RG203834**

RRAGC (NM_022157) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGC (NM_022157) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RRAGC
Synonyms:	GTR2; RAGC; TIB929
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203834 representing NM_022157 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGCAGTACGGGGCGGAGGAGACGCCCTCGCCGGCAGTTACGGCGGGCCGATTCTGTTTCAA
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCGGGCGGGCGGGAGGGTTGGGGCAGG
GGCAGGGCGGTGGCTGTGGTCCGGGGGGCGCTGACAGCTCAAGCCGAGGATTCTGCTCATGGACTCCGG
CGCAGCGCAAGTCTCCATCCAGAAGGTGGTGTTCATAAGATGCACCCAACGAGACCCTCTTTTTGG
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TCCTGGGCAAATGGACTTTTTGACCCAACCTTTGACTATGAGATGATCTTCAGGGGAACAGGAGCATTG
ATATACGTCATTGACGCACAGGATGACTACATGGAGGCTTTAACAAGACTTCACATTACTGTTTCTAAAG
CCTACAAAGTTAACCAGACATGAATTTGAGGTTTTATTACAAAAGTTGATGGTCTGTCTGATGATCA
CAAAATAGAAACACAGAGGGACATTCATCAAAGGGCCAATGATGACCTTGCGAGATGCTGGGCTAGAAAA
CTCCATCTTAGCTTTTATCTGACTAGTATCTATGACCATTCAATATTTGAAGCCTTTAGTAAAGTGGTGC
AGAAACTATTCCACAACCTGCCGACCTTGAAAAACCTATTAATATCTTTATACAAATTCAGGTATTGA
AAAAGCTTTTCTTTGATGTTGTCAGCAAAATCTACATTGCAACAGACAGTCCCCTGTGGATATGCAA
TCTTATGAACCTTGTGTGACATGATCGATGTTGTAATTGATGTCTTGTATATATGGTTAAAGGAAG
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TTTAAAGGAGGTGACTAAATTTTTGGCACTGGTCTGCATTCTAAGGGAAGAAAGCTTTGAAAGAAAAGT
TTAATAGACTACAACCTCCACTGTTCCGAAAAGCTATTCATGAGGTTTTGAGGTGGTGTGACTTCTC
ACAGGAGCTGTGGTACCAGACTAGTGCCTCCAGTCTGAAAGCGCTGACACAAATGGCACGCCACGAAA
CGCCATC

ACGGTACGGGGCCGCTCGAG - GFP Tag - GTTTAA



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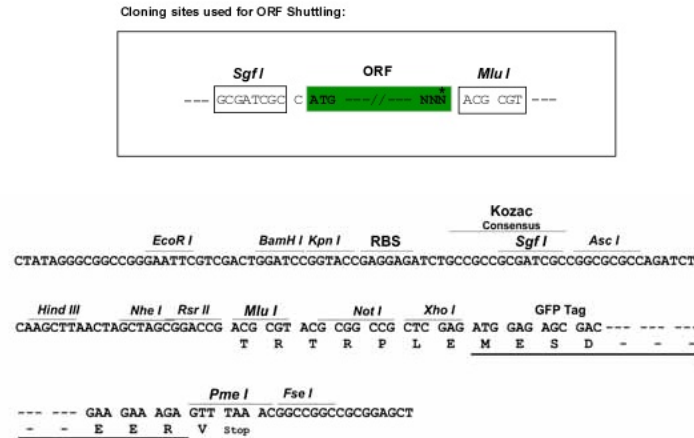
Protein Sequence: >RG203834 representing NM_022157
 Red=Cloning site Green=Tags(s)

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MSLQYGAETPLAGSYGAADSFPKDFGYGVEEEEEAAAAAGGGVAGAGGGCGPGGADSSKPRILLMGLR
RSGKSSIQKVVVHKMSPNETLFLLESTNKIYKDDISNSSFVNFQIWFDPGQMDFFDPTFDYEMIFRGTGAL
IYVIDAQDDYMEALTRLHITVSKAYKVNPD MNFEVFIHKVDGLSDDHKIETQRDIHQRANDDLADAGLEK
LHLSFYLTISIYDHSIFEAFSKVVQKLIPLPTLENLLNIFISNSGIEKAFLLFDVVSKIYIATDSSPVDMQ
SYELCCDMIDVVIDVSCIYGLKEDGSGSAYDKESMAI IKLNNTTVLYLKEVTKFLALVCILREESFERKG
LIDYNFHCFRKAIHEVFEVGVTSHRSCGHQTSASSLKALTHNGTPRNAI
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022157

ORF Size: 1197 bp

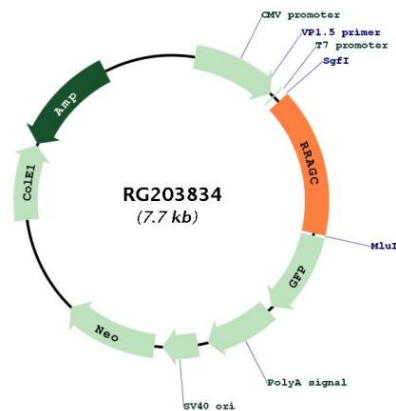
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_022157.4
RefSeq Size:	1442 bp
RefSeq ORF:	1200 bp
Locus ID:	64121
UniProt ID:	Q9HB90
Cytogenetics:	1p34.3
Domains:	Gtr1_RagA
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a member of the GTR/RAG GTP-binding protein family. The encoded protein is a monomeric guanine nucleotide-binding protein which forms a heterodimer with RRAGA and RRAGB and is primarily localized to the cytoplasm. The encoded protein promotes intracellular localization of the mTOR complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG203834