

## Product datasheet for **RG233885**

### RRAGC (NM\_001271851) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGC (NM_001271851) 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:	>RG233885 representing NM_001271851 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCCTGCAGTACGGGGCGGAGGAGACGCCCTCGCCGGCAGTTACGGCGGGCCGATTCTGTTTCAA  
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCGGGCGGGCGGAGGGTTGGGGCAGG  
GGCAGGCGGTGGCTGTGGTCCGGGGGGCGCTGACAGCTCCAAGCCGAGGATTCTGCTCATGGGACTCCGG  
CGCAGCGCAAGTCCATCCAGAAGATATGGGATTTCTGGGCAATGGACTTTTTTGACCAACCT  
TTGACTATGAGATGATCTTCAGGGGAACAGGAGCATTGATATACGTCATTGACGCACAGGATGACTACAT  
GGAGGCTTTAACAAGACTTCACATTACTGTTTCTAAAGCCTACAAGTTAACCCAGACATGAATTTTGAG  
GTTTTTATTCACAAAGTTGATGGTCTGTCTGATGATCACAAAATAGAAACACAGAGGGACATTCACAAA  
GGGCAATGATGACCTTGACAGTGTGGCTAGAAAACTCCATCTTAGCTTTTATCTGACTAGTATCTA  
TGACCATTCAAATATTTGAAGCCTTAGTAAGGTGGTGCAGAACTCATTCCAACTGCCGACCTTGAA  
AACCTATTAATATCTTTATATCAAATTCAGGTATTGAAAAAGCTTTTCTCTTTGATGTTGTGACAAAA  
TCTACATTGCAACAGACAGTCCCCTGTGGATATGCAATCTTATGAACCTTGCTGTGACATGATCGATGT  
TGTAATTGATGTGCTTTGTATATATGGTTAAAGGAAGATGGAAGTGAAGTGCCTATGACAAAGAATCT  
ATGGCAATTATCAAGCTGAATAATAACAAGTGCCTTTATTTAAAGGAGGTGACTAAATTTTGGCACTGG  
TCTGCATTCTAAGGGAAGAAAGCTTTGAAAGAAAAGGTTTAAAGACTACAACCTCCACTGTTCCGAAA  
AGCTATTCATGAGGTTTTGAGGTGGGTGTGACTTCTCACAGGAGCTGTGGTCACCAGACTAGTGCCTCC  
AGTCTGAAAGCGCTGACACACAATGGCACGCCACGAAACGCCATC

**ACCGT**ACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233885 representing NM\_001271851  
Red=Cloning site Green=Tags(s)

```
MSLQYGAEEETPLAGSYGAADSFPPKDFGYGVEEEEEEEAAAAGGGVAGAGGGCGPGGADSSKPRILLMGLR
RSGKSSSIQKIWDFPGQMDFFDPTFDYEMIFRGTGALIIYVIDAQDDYMEALTRLHITVSKAYKVNPMNFE
VFIIHKVDGLSDDHKIETQRDIHQRANDDLADAGLEKHLHSFYLT SIYDHSIFEAFSKVVQKLIPQLPTLE
NLLNIFISNSGIEKAFLLFDVVSIIYIATDSSPVDMSYELCCDMIDVVIDVSCIYGLKEDGSGSAYDKES
MAIIKLNNTTVLYLKEVTKFLALVCILREESFERKGLIDYNFHCFRKAIHEVFEVGTSHRSCGHQTSAS
SLKALTHNGTPRNAI
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271851

**ORF Size:** 1095 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.

**RefSeq:** [NM\\_001271851.2](#)

**RefSeq Size:** 2644 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 64121

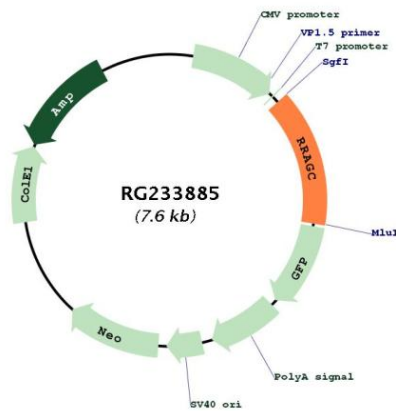
**UniProt ID:** [Q9HB90](#)

**Cytogenetics:** 1p34.3

**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 RG233885