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Product datasheet for MG206250

Rragc (NM_017475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rragc (NM_017475) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rragc
Synonyms:	AU041672; Gtr2; RAGC; TIB929; YGR163W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206250 representing NM_017475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCTGCAGTACGGGGCGGAGGAGACGCCCCTGGCCGGCAGTTACGGCGCAGCCGACTCGTTCCCCA
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCAGCGGCGGGTGGCGGCGGAGGCGCGGGGGC
CGGCGGCGGCTGCGGCCCGGGCGGCGCTGACAGCTCCAAGCCGAGGATCCTGCTTATGGGGCTCCGGCGC
AGCGGCAAATCCTCCATCCAGAAGGTGGTGTTTCATAAGATGTCACCCAATGAGACTCTCTTTTTGGAAA
GTACCAACAAGATTTATAAAGATGACATTTCCAACAGCTCCTTTGTGAACTTCCAGATTTGGGATTTTCC
TGGGCAGATGGACTTCTTTGATCCAACCTTTGACTACGAAATGATCTTCAGGGGCACAGGAGCATTGATA
TATGTCATTGATGCACAGGACGACTACATGGAGGCTTTAACCCGACTTCACATCACTGTTTCTAAGGCCT
ACAAAGTTAACCCAGACATGAATTTTGAGGTTTTTATTCACAAAGTTGATGGACTGTCTGATGATCACAA
AATAGAAACACAGAGGGACATTCATCAAAGGGCCAATGATGACCTTGCAGATGCTGGGCTAGAAAAGCTC
CATCTTAGCTTTTATTTGACTAGCATCTATGACCATTCAATATTTGAAGCCTTCAGTAAGGTGGTACAGA
AACTCATTCCACAACTGCCCACTTTGGAAAACCTATTAAATATCTTTATATCAAATTCAGGTATTGAAAA
AGCTTTTCTCTTTGATGTTGTCAGCAAAATCTACATTGCAACAGACAGCTCCCCTGTGGATATGCAGTCT
TATGAACTTTGCTGTGACATGATTGATGTTGTAATTGATGTGTCTTGTATATATGGATTAAAGGAAGATG
GAAGTGGAAGTGCTTATGACAAAGAATCGATGGCCATTATCAAGCTGAATAATACAACTGTCCTTTATTT
AAAGGAAGTCACTAAATTTTTGGCACTGGTTTGCATTCTTAGGGAAGAGAGCTTTGAACGAAAAGGGTTG
ATAGACTACAACTTCCACTGTTTCCGAAAAGCTATCCATGAGGTGTTTGAGGTGGGTGTGACTTCTCACA
GAAGCTGCAGTCATCAGACCAGTGCTCCAAGTCTGAAAGCCTTGGCACATAACGGCACGCCTCGGAATGC
CATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

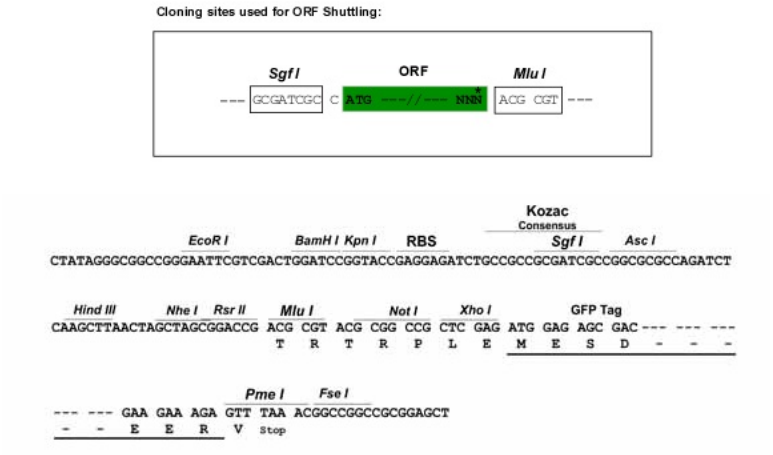
>MG206250 representing NM_017475
Red=Cloning site Green=Tags(s)

MSLQYGAEETPLAGSYGAADSFPKDFGYGVEEEEEEAAAGGGGGAGAGGGCGPGGADSSKPRILLMGLRR
SGKSSIQKVVFHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFPGQMDFFDPTFDYEMIFRGTGALI
YVIDAQDDYMEALTRLHITVSKAYKVNPDMNFEVFIHKVDGLSDDHKIETQRDIHQRANDDLADAGLEKL
HLSFYLTSIYDHSIFEAFSKVVQKLIPQLPTLENLLNIFISNSGIEKAFLFDVVSKIYIATDSSPVDMQS
YELCCDMIDVVIDVSCIYGLKEDGSGSAYDKESMAIIKLNNTTVLYLKEVTKFLALVCILREESFERKGL
IDYNFHCFRKAIHEVFEVGVTSHRSCSHQTSAPSLKALAHNGTPRNAI

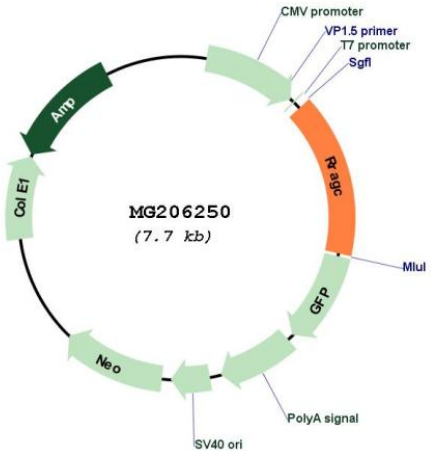
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017475

ORF Size:	1194 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_017475.2, NP_059503.2
RefSeq Size:	2621 bp
RefSeq ORF:	1197 bp
Locus ID:	54170
UniProt ID:	Q99K70
Cytogenetics:	4 D2.2
Gene Summary:	Guanine nucleotide-binding protein forming heterodimeric Rag complexes required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids (By similarity).[UniProtKB/Swiss-Prot Function]