

Product datasheet for MR206250

Rragc (NM_017475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rragc (NM_017475) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rragc
Synonyms:	AU041672; Gtr2; RAGC; TIB929; YGR163W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206250 representing NM_017475 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGCAGTACGGGGCGGAGGAGACGCCCTGGCCGGCAGTTACGGCGCAGCCGACTCGTTCCCCA
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCAGCGCGGGTGGCGGCGAGGCGGGGGC
CGGCGCGGCTGCGGCCCGGGCGCGCTGACAGCTCCAAGCCGAGGATCTGTCTATGGGGCTCCGGCGC
AGCGGCAATCTCCATCCAGAAGGTGGTGTTCATAAGATGTCACCCAATGAGACTCTCTTTTTGGAAA
GTACCAACAAGATTTATAAAGATGACATTTCCAACAGCTCTTTGTGAATTCCAGATTTGGATTTTCC
TGGGCAGATGGACTTCTTTGATCCAACCTTTGACTACGAAATGATCTTCAGGGGCACAGGAGCATTGATA
TATGTCATTGATGCACAGGACGACTACATGGAGGCTTTAACCCGACTTCACATCACTGTTTCTAAGGCT
ACAAAGTTAACCCAGACATGAATTTTGAGGTTTTTATTCACAAAGTTGATGGACTGTCTGATGATCACAA
AATAGAAACACAGAGGGACATTCATCAAAGGCCAATGATGACCTTGAGATGCTGGGCTAGAAAAGCTC
CATCTTAGCTTTTATTTGACTAGCATCTATGACCATTCAATATTTGAAGCCTTCAGTAAGGTGGTACAGA
AACTCATTCCACAACGCCCACCTTTGGAAAACCTATTAATATCTTTATCAAATTCAGGTATTGAAAA
AGCTTTTCTCTTTGATGTTGTGACGAAAATCTACATTGCAACAGACAGCTCCCTGTGGATATGCAGTCT
TATGAATTTGCTGTGACATGATTGATGTTGTAATTGATGTGCTTGTATATATGGATTAAGGAAGATG
GAAGTGAAGTGCTTATGACAAAGAATCGATGGCCATTATCAAGCTGAATAATACAACCTGTCTTTATTT
AAAGGAAGTCACTAAATTTTGGCACTGTTTGCATTCTTAGGGAAGAGAGCTTTGAACGAAAAGGTTG
ATAGACTACAACCTCCACTGTTTCCGAAAAGCTATCCATGAGGTGTTGAGGTGGTGTGACTTCTCACA
GAAGCTGCAGTCATCAGACCAGTCTCCAAGTCTGAAAGCCTTGGCACATAACGGCACGCCTCGAATGC
CATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206250 representing NM_017475
Red=Cloning site Green=Tags(s)

MSLQYGAETPLAGSYGAADSPFKDFGYGVEEEEEAAAGGGGGAGAGGGCGPGGADSSKPRILLMGLRR
 SGKSSIQKVVVHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFFPGQMDFFDPTFDYEMIFRGTGALI
 YVIDAQDDYMEALTRLHITVSKAYKVNPD MNFEVF IHKVDGLSDDHKIETQRDIHQRANDDLADAGLEKL
 HLSFYLT SIYDHSIFEAFSKVVQKLIPQLPTLENLLNIFISNSGIEKAF LFDVVSKIYIATDSSPVDMQS
 YELCCDMIDVVIDVSCIYGLKEDGSGSAYDKESMAI IKLNNTTVLYLKEVTKFLALVLCILREESFERKGL
 IDYNFHCFRKAIHEVFEVGVTSHRSCSHQTSAPSLKALAHNGTPRNAI

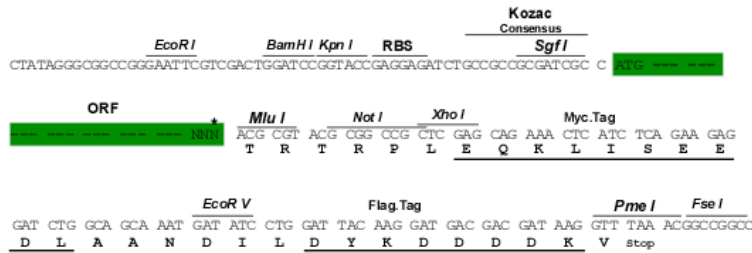
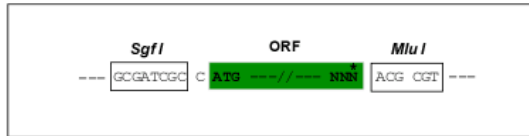
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9089_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

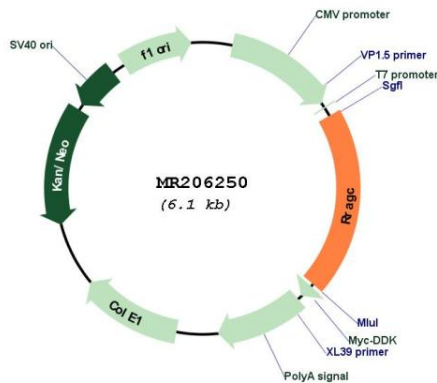
UniProt ID: [Q99K70](#)

Cytogenetics: 4 D2.2

MW: 44.1 kDa

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]

Product images:



Circular map for MR206250