

Product datasheet for MC207666

Rraga (NM_178376) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Rraga
Synonyms:	I300010C19Rik; AI255374; FIP-1; RAGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207666 representing NM_178376 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAATACAGCCATGAAGAAAAAGGTGCTGTTGATGGGAAAGAGCGGGTCGGGGAAGACCAGCATGA
GGTCGATCATCTTTGCAAATTATTTGCGCGCGACACTAGGCGCCTGGGTGCCACCATCGACGTGGAGCA
CTCCCACGTCGGATTCTTGGGGAACCTGGTGTGAACCTGTGGGACTGTGGCGCCAGGACACCTTTATG
GAAAACTACTTCACCAGCCAGCGGGACAACATCTCCGTAATGTGGAGGTTCTGATATACGTGTTTGACG
TAGAGAGCCGCGAACTGGAAAAAGATATGCATTATTACCAATCGTGTCTGGAAGCCATCCTCCAGAATTC
ACCTGACGCCAAAAATCTTCTGCCTGGTGCACAAAATGGATCTGGTTCAGGAAGATCAACGTGACCTGATT
TTTAAAGAGCGAGAGGAAGACCTGAGGCGTTTGTCTCGCCCGCTGGAGTGCCTTGTTCGAACGTCCA
TCTGGGATGAGACGCTCTACAAAGCCTGGTCCAGCATCGTCTATCAGCTGATCCCCAACGTTTCAGCAGCT
GGAGATGAACCTAAGGAATTTTGCCAGATTATTGAGGCTGATGAAGTTCTGCTGTTTCGAGAGAGCTACG
TTCTTGGTGATTTCCCACTACCAAGTCAAAAGAGCAGCGAGATGTGCACCGCTTTGAGAAGATCAGCAACA
TCATCAAGCAGTTTAAGCTGAGCTGCAGTAAATTGGCCGCTTCTTTCCAGAGCATGGAAGTGAGGAATTC
TAACCTCGCTGCCTTCATCGACATCTTTACATCAAACACGTACGTGATGGTGGTCATGTCAGATCCATCC
ATCCCTTCTGCAGCTACTCTGATCAACATTGTAATGCCAGGAAACACTTTGAGAAGCTAGAAAGAGTAG
ATGGGCCCAAGCACAGCCTCCTCATGCGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_178376



Insert Size:	942 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_178376.3 , NP_848463.1
RefSeq Size:	1653 bp
RefSeq ORF:	942 bp
Locus ID:	68441
UniProt ID:	Q80X95
Cytogenetics:	4 C4
Gene Summary:	Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade. Forms heterodimeric Rag complexes with RRAGC or RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form. In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death.[UniProtKB/Swiss-Prot Function]