

Product datasheet for MR228306

Rangrf (NM_001285442) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rangrf (NM_001285442) Mouse Tagged ORF Clone

Tag: Myc-DDK Symbol: Rangrf

Synonyms: 2400006H24Rik; Mog1; Rangnrf

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR228306 representing NM_001285442
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TAACTAGTTTGACTCTTCATGATCCCAACCTCTTTGGTCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228306 representing NM_001285442

Red=Cloning site Green=Tags(s)

MEPNRNCPLFGGAFSAILPTGAIDVSDLRPVPDNQEVFCHPVTDQSLIIELLELQAHVQGEAAARYHFED VGRVQGARAVHVLSVQPLCLENLSLRGCCQDAWSLSGKQQVAKDVTLHQALLRLPQYQTDLLLTFNQPPC

HSRSLGPENLSCPPWSLSNFEQLVTSLTLHDPNLFGPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

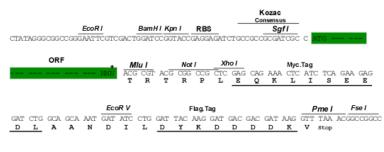
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001285442

ORF Size: 534 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001285442.1</u>, <u>NP 001272371.1</u>

RefSeq Size: 824 bp RefSeq ORF: 537 bp Locus ID: 57785



Cytogenetics: 11 B3

MW: 20.1 kDa

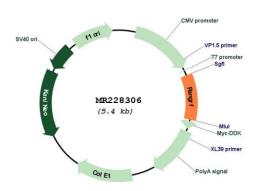
Gene Summary: May regulate the intracellular trafficking of RAN (PubMed:10811801, PubMed:11733047).

Promotes guanine nucleotide release from RAN and inhibits binding of new GTP by

preventing the binding of the RAN guanine nucleotide exchange factor RCC1

(PubMed:10811801, PubMed:11733047). Regulates the levels of GTP-bound RAN in the nucleus, and thereby plays a role in the regulation of RAN-dependent mitotic spindle dynamics (By similarity). Enhances the expression of SCN5A at the cell membrane in cardiomyocytes (PubMed:18184654, PubMed:23420830).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228306