

Product datasheet for MR202103

Rpl13a (NM_009438) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rpl13a (NM_009438) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rpl13a
Synonyms: 1810026N22Rik; Tstap198-7; tum-antigen
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202103 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGGGCAGGTTCTGGTATTGGATGGCCGAGGCCATCTTCTGGCCGCCTGGCGGCCATTGTGG
 CCAAGCAGGTACTTCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACATTTCTGGAACTT
 CTACAGAAACAAGTTAAAGTATCTGGCCTTCTCCGGAAGCGGATGAATACCAACCCCTCCCGAGGCC
 TACCATTCCGAGCCCCAGCCGATTTCTGGCGCACTGTGCGAGGCATGCTGCCCCACAAGCAAGA
 GAGGCCAGGCTGCCCTGGAGCGCTCAAGGTGTTGGATGGGATCCCTCCACCTATGACAAGAAAAAGCG
 GATGGTGGTCCCTGCTGCTCTCAAGGTTGTTCCGCTGAAGCCTACCAGAAAGTTTCTTACTGGGGCGT
 CTGGCGCATGAGGTGGGTGGAAGTACCAGGCAGTGACAGCCACTCTGGAGGAGAAACGGAAGGAAAGG
 CCAAGATGCACTATCGGAAGAAGAAGCAGATCTTGAGGTTACGGAACAGGCAGAAAAGAATGTGGAGAA
 GAAAATCTGCAAGTTCACAGAGGTCCTCAAGACCAACGGACTCCTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202103 protein sequence
 Red=Cloning site Green=Tags(s)

MAEQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLYLAFLRKMNTNPSRGP
 YHFRAPSRIFWRTVVRGMLPHKTKRGQAALERLKVLDGIPPPYDKKRMVPAALKVVRLKPTRKFAYLGR
 LAHEVWKYQAVTATLEEKRKEKAKMHYRKKKQILRLRQAEKNVEKKICKFTEVLKTNGLLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009438

ORF Size: 612 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_009438.5](#)

RefSeq Size: 1039 bp

RefSeq ORF: 612 bp

Locus ID: 22121

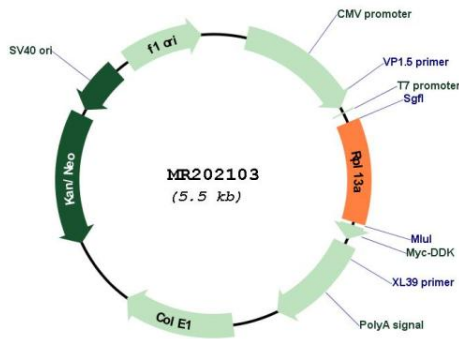
UniProt ID: [P19253](#)

Cytogenetics: 7 29.14 cM

MW: 23.5 kDa

Gene Summary: Associated with ribosomes but is not required for canonical ribosome function and has extra-ribosomal functions (By similarity). Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma activation and subsequent phosphorylation dissociates from the ribosome and assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3' UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation. In the GAIT complex interacts with m7G cap-bound eIF4G at or near the eIF3-binding site and blocks the recruitment of the 43S ribosomal complex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202103