

Product datasheet for **MG202103**

Rpl13a (NM_009438) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rpl13a (NM_009438) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rpl13a
Synonyms: 1810026N22Rik; Tstap198-7; tum-antigen
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202103 representing NM_009438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGGGGCAGGTTCTGGTATTGGATGGCCGAGGCCATCTTCTGGCCGCTGGCGGCCATTGTGG
 CCAAGCAGGTACTTCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACATTTCTGGAACTT
 CTACAGAAACAAGTTAAAGTATCTGGCCTTCTCCGGAAGCGGATGAATACCAACCCCTCCCGAGGCC
 TACCATTCCGAGCCCCAGCCGATTTCTGGCGCACTGTGCGAGGCATGCTGCCCCACAAGCAAGA
 GAGGCCAGGCTGCCCTGGAGCGCCTCAAGGTGTTGGATGGATCCCTCCACCTATGACAAGAAAAAGCG
 GATGGTGGTCCCTGCTGCTCTCAAGTTGTTCCGCTGAAGCCTACCAGAAAGTTTCTTACTGGGGCGT
 CTGGCGCATGAGGTGGGTGGAAGTACCAGGCAGTGACAGCCACTCTGGAGGAGAAAACGGAAGGAAAAGG
 CCAAGATGCACTATCGGAAGAAGAAGCAGATCTTGAGGTTACGGAAACAGGCAGAAAAGAATGTGGAGAA
 GAAAATCTGCAAGTTCACAGAGGTCTCAAGACCAACGGACTCCTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202103 representing NM_009438
 Red=Cloning site Green=Tags(s)

MAEQVLVLDGRGHLLGRLLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLYLAFLRKRMTNPSRGP
 YHFRAPSRIFWRTVRGMLPHKTKRQAALERLKVLDGIPPPYDKKRMVPAALKVVRLKPTRKFAYLGR
 LAHEVGWKYQAVTATLEEKRKEKAKMHYRKKKQILRLRKQAEKNVEKKICKFTEVLKTNGLLV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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: 803 bp

RefSeq ORF: 612 bp

Locus ID: 22121

UniProt ID: [P19253](#)

Cytogenetics: 7 29.14 cM

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]