

Product datasheet for **RG203668**

MRAP2 (NM_138409) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRAP2 (NM_138409) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MRAP2
Synonyms: bA51G5.2; C6orf117
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203668 representing NM_138409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCCCCAGAGGTTAATTTCTAACAGAACCTCCAGCAATCGGCATCTAATTCTGATTACACCTGGG
AATATGAATATTATGAGATTGGACCAGTTTCCTTTGAAGGACTGAAGGCTCATAAATATTCATTGTGAT
TGGATTTGGGTTGGTCTGCAGTCTTCGTGATTTTTATGTTTTTTGTGCTGACCTTGCTGACCAAGACA
GGAGCCCCACCAAGACAATGCAGAGTCTCAGAGAAGAGATTCAGAATGAACAGCTTTGTGTCAGACT
TTGAAGACCTCTGGAGCCAGATAAAGTATTTCTCGCCAAGGCAACGAGGAGTCCAGGTCTCTCTTTCA
CTGCTACATCAATGAGGTGGAACGCTTGGACAGAGCCAAAGCTTGTACCAGACCACAGCCCTTGACAGT
GACGTCCAACCTCCAGGAAGCCATCAGAAGCAGTGGGCAGCCAGAGGAGGAGCTGAACAGGCTCATGAAGT
TTGACATCCCCAACTTTGTGAACACAGACCAGAACTACTTTGGGGAGGATGATCTTCTGATTTCTGAACC
ACCTATTGTTCTGGAACTAAGCCACTTCCCAGACCTCACACAAAGACCTGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203668 representing NM_138409
 Red=Cloning site Green=Tags(s)

MSAQRLLISNRTSQQSASNSDYTWEEYEEIGPVSFEGLKAHKYSIVIGFWVGLAVFVIFMFFVLTLTKT
GAPHQDNAESSEKRFMNSFVSDFGRPLEPKVFSRQGNESRSLFHCYINEVERLDRAKACHQTALDS
DVQLQEAIRSSGQPEEELNRLMKFDIPNFVNTDQNYFGEDDLLISEPPIVLETKPLSQTSHKDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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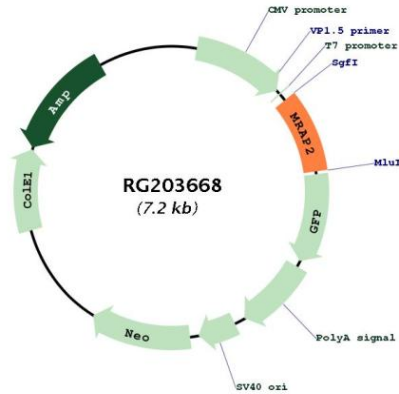
Cloning Scheme:


- ACCN:** NM_138409
- ORF Size:** 615 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_138409.4](#)
- RefSeq Size:** 2207 bp
- RefSeq ORF:** 618 bp
- Locus ID:** 112609
- UniProt ID:** [Q96G30](#)
- Cytogenetics:** 6q14.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein that modulates melanocortin receptor signaling. The encoded protein has been shown to interact with all known melanocortin receptors and may regulate both receptor trafficking and activation in response to ligands. Mice lacking a functional copy of this gene exhibit severe obesity and a mutation in this gene may be associated with severe obesity in human patients. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RG203668