

Product datasheet for **MR200684**

Mrap (NM_029844) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mrap (NM_029844) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mrap
Synonyms: 1110025G12Rik; C21ORF61; Falp; ORF61
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200684 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAACGGGACCGACGCCTCTGTCCCCTCACCAGCTATGAGTATTACCTGGACTACATAGACCTCA
 TTCCTGTGGACGAGAAGAAGCTGAAAGCCAACAAGCATTCCATTGTCATCGCCCTGTGGTTGAGCCTGGC
 TACCTTCGTGGTGCTCCTCTTTCTCATCCTGCTCTACATGTCCTGGTCGGGCTCCCCACAGATGAGGCAC
 AGTCCCCAACCCAGCCAATATGTTTCATGGACTCACAGCTTCAACCTCCCTCTGTGCCTCCGAGGGCCT
 CCCTGCAGACAACAGAGGAGCCAGGAAGGAGAGCTGGCACTGACCAGTGGTTAACGCAGCAGAGTCCTTC
 TGCCTCAGCCCCGGGGCCCTGGCTCTCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200684 protein sequence
 Red=Cloning site Green=Tags(s)

MANGTDASVPLTSYEYLDYIDLIPVDEKKLKANKHSIVIALWLSLATFVLLFLILLYMSWSGSPQMRH
 SPQPQICSWTHSFNPLCLRRASLQTTEEPGRRAGTDQWLTTQSPSASAPGPLALP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_029844

ORF Size: 381 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.

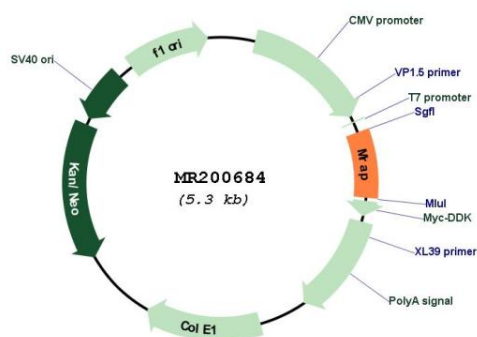
RefSeq: [NM_029844.4](#)

RefSeq Size: 992 bp

RefSeq ORF: 384 bp
 Locus ID: 77037
 UniProt ID: [Q9D159](#)
 Cytogenetics: 16 C3.3
 MW: 14.2 kDa

Gene Summary: Modulator of melanocortin receptors (MC1R, MC2R, MC3R, MC4R and MC5R). Acts by increasing ligand-sensitivity of melanocortin receptors and enhancing generation of cAMP by the receptors. Required both for MC2R trafficking to the cell surface of adrenal cells and for signaling in response to corticotropin (ACTH). May be involved in the intracellular trafficking pathways in adipocyte cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200684