

Product datasheet for **MG200684**

Mrap (NM_029844) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mrap (NM_029844) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mrap
Synonyms: 1110025G12Rik; C21ORF61; Falp; ORF61
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200684 representing NM_029844
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACGGGACCGACGCCTCTGTCCCCTCACCAGCTATGAGTATTACCTGGACTACATAGACCTCA
TTCCTGTGGACGAGAAGAAGCTGAAAGCCAACAAGCATTCCATTGTCATCGCCCTGTGGTTGAGCCTGGC
TACCTTCGTGGTCTCTCTTTCTCATCTGCTCTACATGTCCTGGTCGGGCTCCCCACAGATGAGGCAC
AGTCCCCAACCCAGCCAATATGTTTCATGGACTCACAGCTTCAACCTCCCTCTGTGCCTCCGAGGGCCCT
CCCTGCAGACAACAGAGGAGCCAGGAAGGAGAGCTGGCACTGACCAGTGGTTAACGCAGCAGAGTCTTC
TGCTCAGCCCCGGGCCCTGGCTCTCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200684 representing NM_029844
Red=Cloning site Green=Tags(s)

MANGTDASVPLTSYEYLDYIDLIPVDEKCLKANKHSIVIALWLSLATFVLLFLILLYMSWSGSPQMRH
SPQPQICSWTHSFNLPLCLRRASLQTTEEPGRAGTDQWLTTQQSPSASAPGLALP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

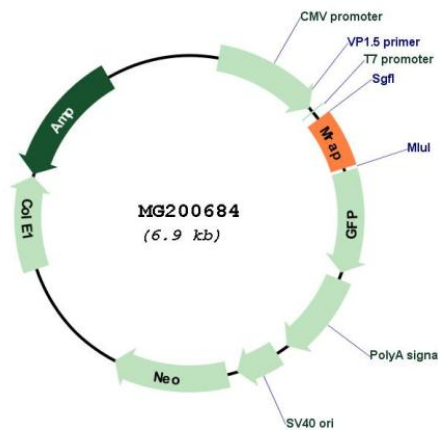


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Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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_029844.4
RefSeq Size:	993 bp
RefSeq ORF:	384 bp
Locus ID:	77037
UniProt ID:	Q9D159
Cytogenetics:	16 C3.3
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]