

## Product datasheet for **MC201397**

### Mrap (NM\_029844) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mrap (NM\_029844) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mrap  
**Synonyms:** 1110025G12Rik; C21ORF61; Falp; ORF61  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC027543 sequence for NM\_029844  
CTGATAGAAATTAGTTAAGCAATCTTGTCTCTGGGGCTCACGGCCAGCTGTGGGTGCGAGCCTCTGACA  
GACACTGTCGTCAAAGCCACAGTCATGGCCAACGGGACCGCCTCTGTCCCGCTCACCAGCTATGAGT  
ATTACCTGGACTACATAGACCTCATTCCCTGTGGACGAGAAGAAGCTGAAAGCCAACAAGCATTCCATTGT  
CATCGCCCTGTGGTTGAGCCTGGCTACCTTCGTGGTGCTCCTCTTTCTCATCCTGCCTACATGTCTGG  
TCGGGCTCCCCACAGATGAGGCACAGTCCCAACCCAGCCAATATGTTTCATGGACTCACAGCTTCAACC  
TCCCTCTGTGCCTCCGGAGGGCCTCCCTGCAGACAACAGAGGAGCCAGGAAGGAGAGCTGGCACTGACCA  
GTGGTTAACGCAGCAGAGTCCTTCTGCCTCAGCCCCGGGGCCCTGGCTCTCCCCTAGGACCAGGTCCAG  
GATGGAGGTCCCAGGGCATCAGTGGCCTCACACTCAAGCAGTGGTGAGCCTGGAGACAGAGCGTCTCAA  
CTGTAGAACGGATGATGCCAGAGAGCCAGTCGGGCTCAAGCAAACGGTGAACCTCAACCAACCCGGGCAG  
CTACGTCTTTTTAGGGCCGTTTACAATGGCCTTGAATATAGCAGGAACTGACCGGGACAAAACCAAGT  
TTACAAAGAGGACCATCACACATTGATAGTGCAGCTAGGATGCAGGAGCTGCCCTGGACACAGCTGTC  
TCTGTTGAGCAAGCTTAGCCTGCTTGTCTTACATTTGCTTTGGGGGTACACAGGAAAATAAATGTGA  
ATTAGGATAAAGAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI

**ACCN:** NM\_029844

**Insert Size:** 384 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).



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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:** [BC027543](#), [AAH27543](#)

**RefSeq Size:** 874 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]