

## Product datasheet for **SC100506**

### MRAP2 (NM\_138409) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRAP2 (NM_138409) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRAP2
Synonyms:	bA51G5.2; C6orf117
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100506 sequence for NM_138409 edited (data generated by NextGen Sequencing)

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ATGTCCGCCAGAGGTTAATTTCTAACAGAACCTCCAGCAATCGGCATCTAATTCTGAT
TACACCTGGGAATATGAATATTATGAGATTGGACCAGTTTCCTTTGAAGGACTGAAGGCT
CATAAATATTCCATTGTGATTGGATTTTGGTTGGTCTTGCACTCTTCGTGATTTTATG
TTTTTTGTGCTGACCTTGCTGACCAAGACAGGAGCCCCACACCAAGACAATGCAGAGTCC
TCAGAGAAGAGATTGAGAATGAACAGCTTTGTGTCAGACTTTGGAAGACCTCTGGAGCCA
GATAAAGTATTTTCTCGCCAAGGCAACGAGGAGTCCAGGTCTCTTTCACTGCTACATC
AATGAGGTGGAACGCTTGGACAGAGCCAAAGCTTGTACCAGACCACAGCCCTTGACAGT
GACGTCCAACCTCCAGGAAGCCATCAGAAGCAGTGGGCAGCCAGAGGAGGAGCTGAACAGG
CTCATGAAGTTTGACATCCCAACTTTGTGAACACAGACCAGAACTACTTTGGGGAGGAT
GATCTTCTGATTTCTGAACCACCTATTGTTCTGGAAACTAAGCCACTTTCCAGACCTCA
CACAAAGACCTGGATTGA
```

Clone variation with respect to NM\_138409.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_138409 unedited</p> <pre>TCAAAATTTGTAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCGCGTCTC CGCCGCACCTCGGATCTAGGAGCTACTCGCCCGGCCCTGGGCGGTGGGAGGCGGCGGCGG CGGCGGCGCTCGCGCACCTCGGAGGAGCCAGGAGCCGGAACAGGGCCGAGCCCGCGGGC CGGGGTAGCCAGCCGGTCCGAGATGTCCGCCAGAGGTTAATTTCTAACAGAACCTCCC AGCAATCGGCATTAATTTCTGATTACACCTGGGAATATGAATATTATGAGATTGGACCAG TTTCCTTTGAAGGACTGAAGGCTATAAATATTCATTGTGATTGGATTTTGGGTTGGTC TTGCAGTCTTCGTGATTTTTATGTTTTTTGTGCTGACCTTGCTGACCAAGACAGGAGCCC CACACCAAGACAATGCAGAGTCCTCAGAGAAGAGATTCAGAATGAACAGCTTTGTGTGAG ACTTTGGAAGACCTCTGGAGCCAGATAAAGTATTTTCTCGCCAAGGCAACGAGGAGTCCA GGTCTCTCTTTCAGTCTACATCAATGAGGTGGAACGCTTGGACAGAGCCAAAGCTTGTC ACCAGACCACAGCCCTTGACAGTGACGTCCAACCTCCAGGAAGCCATCAGAAGCAGTGGGC AGCCAGAGGAGGAGCTGAACAGGCTCATGAAGTTTGACATCCCCAACTTTGTGAACACAG ACCAGAATACTTTGGGAGGATGATCTTCTGATTTCTGAACCACCTATTGTTCTGGAAA CTAAGCCACTTTCCAGACCTCACACAAAGACCTGGATTGAGAATGCTCTGTAAGGG GTCTTCTGNAGATGTGGATNNCTATCTTATGTAGCAAGAATCTACCATCACAAAATGGTG NGGTGTTGGGGGAGAGAGACATTGGNTAGAGACAGAGAGGCGNGAAGAGACCCCTTTA GAGAGAGCTGAGCTGATAAGCTGANTGGTTNTTGTGTTTTGNTTCGTT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_138409 unedited</p> <pre>NGGTACAACATGNAACCGCGCCGCATNCNANGATCGGATTTTTTTTTTTTTTTTTTTTGC AGTCAAATGCATTTATTTGTAGCTTAAGCAAGACAGGTGGTGAACAAATTCATAATGAA AATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTGTGCGCAAATCAAGTTG TTTTAATACCAGTGTGCAGCTTTGATTCCATGAAATTAAGCTGTGTGCTCACTTG TTTACATAAATCAGGCCACCCTGAATATCTGCTAGTGGGGAATTTACAACCCACTGACCA TCTCAGCTCAAAGCCAGATGACTATCACCTACACATCTGCCAAGGTAATAGCATGGCAA TAGTATTTTTCTGTTCTGTAGCCAATGGCACAGATACACCAACACAGAGATACCCAGAA GGCACCTCCTCTCATTAGCTGACAAGCTTCTAACATTTCTTGGGGACAAGAGTACCAT ACATGTACTACGAATGGTACTTATTCTGAGGCAGGGGATGGCTGTCTCCAGGTTAGAGC ATGGGTGNGTTGGAAGTTCTCAGAAGAGCTGTTTCAGCACAACCCACCAGAAAACATTGGC CACCATGACTGTGAAGATGAGTCTCCTGACATTTCTGGTAGACAACCAGATCCCCTGACT AAAGCTTGCTCAATTAGGGTTAAGTGGAAAGGTACAGAGATTTGAGAGAGCCTACAAGAG ATACGAGGCACTACCCTAGTTTATACTGTTTTATGTATAGCTCAGCCTCATCTGAAGGCA AAGTCATAAAATCACAAAATATTAGAGGTGGNATGGATCACTCTAGACCTGTCAACCTA CAGTTAAAAATGGGGCAGCCAGAGAGGTAAGCAACTCACAAAGGTAGAGCATAGTAG TGGCAGGGCCAGATTGAACATGGTANGCTAATCCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138409
<b>Insert Size:</b>	2320 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_138409.1](#), [NP\\_612418.1](#)

**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]

Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1, 3 and 5 encode the same isoform (1).