

## Product datasheet for **SC310647**

### RAMP2 (NM\_005854) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAMP2 (NM_005854) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAMP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for NM_005854 edited</p> <pre>TCGCCTCCTTGCTGCACGATGGCCTCGCTCCGGGTGGAGCGCCGGCGGCCCGCTCTC CCTAGGACCCGAGTCGGGCGGCCGGCAGCGCTCCGCCTCCTCCTGCTGGGCGCTGTC CTGAATCCCACGAGGCCCTGGCTCAGCCTCTCCACCACAGGCACACCAGGGTCAGAA GGGGGGACGGTGAAGAACTATGAGACAGCTGTCCAATTTTGTGGAATCATTATAAGGAT CAAATGGATCCTATCGAAAAGGATTGGTGCAGCTGGGCCATGATTAGCAGGCCTTATAGC ACCCTGCGAGATTGCCTGGAGCACTTTGCAGAGTTGTTTGACCTGGGCTTCCCAATCCC TTGGCAGAGAGGATCATCTTTGAGACTCACCAGATCCACTTTGCCAACTGCTCCCTGGTG CAGCCCACCTTCTGACCCCCCAGAGGATGTACTCCTGGCCATGATCATAGCCCCATC TGCCTCATCCCCTTCTCATCACTCTTGTAGTATGGAGGAGTAAAGACAGTGAGGCCAG GCCTAGGGGGCCACGAGCTTCTCAACAACCATGTTACTCCACTTCCCCACCCCACCAGG CTCCCTCCTCCCCTCCTACTCCCTTTTCTCACTCTCATCCCCACCACAGATCCCTGGAT TGCTGGGAATGGAAGCCAGGTGGGGTCATGGCACAAGTTCTGTAATCTTCAAATAAAAC TTTTTTTTGTACAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_005854
Insert Size:	750 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_005854.1](#), [NP\\_005845.1](#)

**RefSeq Size:** 780 bp

**RefSeq ORF:** 528 bp

**Locus ID:** 10266

**UniProt ID:** [O60895](#)

**Cytogenetics:** 17q21.2

**Domains:** RAMP

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Vascular smooth muscle contraction

**Gene Summary:**

The protein encoded by this gene is a member of the RAMP family of single-transmembrane-domain proteins, called receptor (calcitonin) activity modifying proteins (RAMPs). RAMPs are type I transmembrane proteins with an extracellular N terminus and a cytoplasmic C terminus. RAMPs are required to transport calcitonin-receptor-like receptor (CRLR) to the plasma membrane. CRLR, a receptor with seven transmembrane domains, can function as either a calcitonin-gene-related peptide (CGRP) receptor or an adrenomedullin receptor, depending on which members of the RAMP family are expressed. In the presence of this (RAMP2) protein, CRLR functions as an adrenomedullin receptor. The RAMP2 protein is involved in core glycosylation and transportation of adrenomedullin receptor to the cell surface. [provided by RefSeq, Jul 2008]