

## Product datasheet for SC111143

### RAMP1 (NM\_005855) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAMP1 (NM_005855) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAMP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005855 edited ATGGCCCGGGCCCTGTGCCGCTCCCGCGCGCGCCTCTGGCTGCTCCTGGCCCATCAC CTTTCATGACCACTGCCTGCCAGGAGGCTAACTACGGTGCCCTCCTCCGGGAGCTCTGC CTACCCAGTTCAGGTAGACATGGAGGCCGTCGGGAGACGCTGTGGTGTGACTGGGGC AGGACCATCAGGAGCTACAGGGAGCTGGCCGACTGCACCTGGCACATGGCGGAGAAGCTG GGCTGCTTCTGGCCCAATGCAGAGGTGGACAGGTTCTTCTGGCAGTGCATGGCCGCTAC TTCAGGAGCTGCCCATCTCAGGCAGGGCCGTCGGGACCCGCCCGGCAGCATCTCTAC CCCTTCATCGTGGTCCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGCAG AGCAAGCGCACTGAGGGCATTGTGTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005855 unedited NGGGTCGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCCACGAGGGCGCGTG GCGAGCGGACTCGACTCGGCACCCTGTGCACCATGGCCCGGGCCCTGTGCCGCTCCCG CGGCGCGCCTCTGGCTGCTCCTGGCCATCACCTCTTCATGACCACTGCCTGCCAGGAG GCTAACTACGGTGCCCTCCTCCGGGAGCTCTGCCTCACCCAGTTCAGGTAGACATGGAG GCCGTCCGGGAGACGCTGTGGTGTGACTGGGGCAGGACCATCAGGAGCTACAGGGAGCTG GCCGACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTG GACAGTTCTTCTGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCATCTCAGGCAGG GCCGTGCCGGACCCGCCGCGCAGCATCCTCTACCCCTTCATCGTGGTCCCCATCACGGTG ACCCTGCTGGTGACGGCACTGGTGGTCTGGCAGAGCAAGCGCACTGAGGGCATTGTGTAG GCGGGGCCANGCTGCCCGGGTGCACCCAGGCTGCAGGGTGGAGCCAGGCAGGCCTGG GTAGGGGAGCTTCTGGAGCCTTNGACAGAGCANGCCACAATGCCCCCTTCTCCAG CCAAGAAGAGCTCACAGGAGTCCAGAGTAGCCGAGGCTCTGGTATTAACCTGGAAGCCCC CCTGGCTGGAGGCCACCCACCCTAGGAAGNGGCAGGGGACGTGACCTTGACTTACCT CTGGNAAGGGTCCAGCCTAGACTGCTTACCCCATAGCCACATTTGTGGATGAGTGGTTT GTGATTAAGGATGNNTCTGAAAAAAAAAAAAAAAAAAAACTCGACTCTAGTTGCGGCC GNCGTCATAGCTTTCTGACAAT



[View online »](#)

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005855 unedited TGTACGCGCCGCAATCTATATCGAGTTTTTTTTTTTTTTTTTTTTTTTCAAAAACATCCC TTTTAATCACAAACCACTCATCCACAAATGTGGCTATGGGGTAAGCAGTCTAGGCTGGGA CCCTTTCAAAGGTAAGTCAAGGTCACGTCCCTGCCCTTCTAGGGTGGCGGTGGCCT CCAGCCAGGGGGCTTCCAGGTTAATACCAAAGCCTCGGCTACTCTGGACTCCTGTGAGC TCTTCTTGGCTGGAAAAAGGGGGCATTGTGGCCTGCTCTGTCCCAAGGCTCCAAAAGC TGCCCCTACCCAGGCTGCCTGGCCTCACCTGCAGCCTGGGTGCACCCGCGGGCAGCCT GGGCCCCGCTACACAATGCCCTCATTGCGCTTGTCTGCCAAACCACCTTGCCGTCAC CTGCAGGGTCACCGTGATGGGGACCACCAACGAACGGCCTAAGGATGCTGCCGGTCCGTCT CCCCACGCCCTCCTTGAAAAAGGGGAATTTGTTGAATCATCCCCATCCCCGCCCTGCA CTACCCGCGTCCACCTCGAATGGCCCTCATACTCCCTAAATTCTCTCATATCACCCC TCCCCCTCATCTGTCCCCACTCGCCCTCCCTTCTCCCCCTTCCCTCTCTCCCGTCAC ACATGACTGTCCCTATTACTCCACCCCTGCACCCCACTCCCTCTTACTATCCTCTC TCCTTCTGCCCCCTCATTTTCGTCTTATGTATTGCTTCTTTCGTTCCCCCTGCAC CTCTCTCCCCCCCCACCTCTCGCTCCTCGTTGTCTCACATCTATACTTGGATCAT CTCTTTTTCTATCCTCACCTTCTCTTCTCCCCCCCCCTTATATCTCCATGCATC TTATCCACCATCTACTTCACTATCTTATCCCTCCACCTCCATTACTCCACACCCACA TCAACTAACTACTCCATACTCTATTACG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005855
<b>Insert Size:</b>	880 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005855.2</a> , <a href="#">NP_005846.1</a>
<b>RefSeq Size:</b>	922 bp
<b>RefSeq ORF:</b>	447 bp
<b>Locus ID:</b>	10267
<b>UniProt ID:</b>	<a href="#">O60894</a>
<b>Cytogenetics:</b>	2q37.3
<b>Domains:</b>	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 (RAMP1) protein, CRLR functions as a CGRP receptor. The RAMP1 protein is involved in the terminal glycosylation, maturation, and presentation of the CGRP receptor to the cell surface. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]  
Transcript Variant: This variant (1) encodes the longer isoform (1).