

Product datasheet for **RC200587**

RAMP1 (NM_005855) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAMP1 (NM_005855) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAMP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200587 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGGCCCTGTGCCGCTCCCGCGGCGGGCCTCTGGCTGCTCCTGGCCATCACCTCTTCATGA
CCACTGCCTGCCAGGAGGCTAACTACGGTGCCTCCTCCGGGAGCTCGCCTCACCCAGTTCAGGTAGA
CATGGAGCCGTCGGGGAGACGCTGTGGTGTACTGGGGCAGGACCATCAGGAGCTACAGGGAGCTGGCC
GACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTGGACAGGTTCTTCC
TGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCATCTCAGGCAGGGCCGTGCGGGACCCGCCGCGCAG
CATCCTCTACCCCTTCATCGTGGTCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGCAG
AGCAAGCGCACTGAGGGCATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200587 protein sequence
Red=Cloning site Green=Tags(s)

MARALCRLPRRGLWLLL AHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRITRSYRELA
DCTWHMAEKLGCFWPNAEVD RFFLAVHGRYFRSCPI SGRAVRDPPGSIL YPFIVVPITVTLVLTALVVWQ
SKRTEGIV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6034_e09.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_005855

ORF Size: 444 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:**
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_005855.4](#)

RefSeq Size: 922 bp

RefSeq ORF: 447 bp

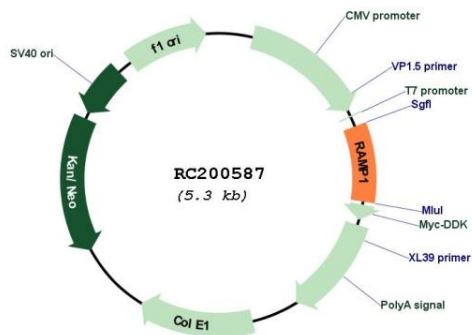
Locus ID: 10267

UniProt ID: [O60894](#)

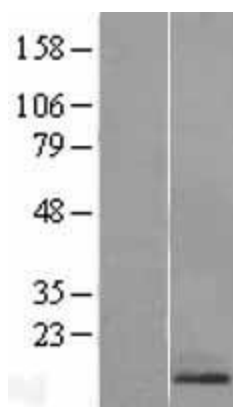
Cytogenetics: 2q37.3
Domains: RAMP
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Vascular smooth muscle contraction
MW: 17 kDa

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]

Product images:



Circular map for RC200587



Western blot validation of overexpression lysate (Cat# [LY417025]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200587 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).