

Product datasheet for **RC208762**

RAMP3 (NM_005856) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAMP3 (NM_005856) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAMP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208762 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACTGGAGCGCTGCGGCGCCCGCAACTTCTCCCGTTGCTGCTGCTCTGCGGTGGGTGTCCCA
GAGCAGGCGGCTGCAACGAGACAGGCCTGTTGGAGAGGCTGCCCTGTGTGGGAAGGCTTTCGCAGACAT
GATGGGCAAGGTGGACGTCTGGAAGTGGTGCAACCTGTCCGAGTTCATCGTGTACTATGAGAGTTTCACC
AACTGCACCGAGATGGAGGCCAATGTCGTGGGCTGCTACTGGCCCAACCCCTGGCCAGGGCTTCATCA
CCGGCATCCACAGGCAGTCTTCTCCAACCTGCACCGTGGACAGGTCACATTGGAGGACCCCCAGACGA
GGTTCTCATCCCGCTGATCGTTATACCCGTCGTTCTGACTGTCCGCATGGCTGGCTGGTGGTGTGGCGC
AGCAAACGCACCGACACGCTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208762 protein sequence
Red=Cloning site Green=Tags(s)

METGALRRPQLLPLLLLLCGGCPRAGGCNETGLLERLPLCGKAFADMMGKVDVWKWCNLSEFIVYYESFT
NCTEMEANVVGCVWPNLAQGFITGIHQFFSNCTVDRVHLEDPPDEVLIPLIVIPVVLTVAMAGLVVWR
SKRTDTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6284_a05.zip

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_005856

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005856.3](#)

RefSeq Size: 1376 bp

RefSeq ORF: 447 bp

Locus ID: 10268

UniProt ID: [O60896](#)

Cytogenetics: 7p13

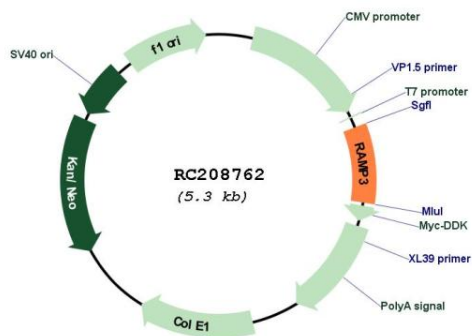
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Vascular smooth muscle contraction

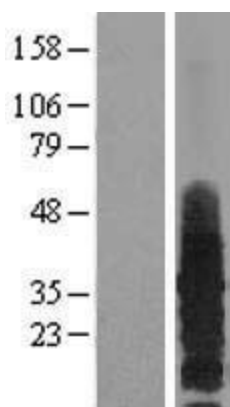
MW: 16.5 kDa

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 (RAMP3) protein, CRLR functions as an adrenomedullin receptor. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208762



Western blot validation of overexpression lysate (Cat# [LY417026]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208762 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).