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Product datasheet for RC206531

RAMP2 (NM_005854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAMP2 (NM_005854) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAMP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206531 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGCTCCGGGTGGAGCGCGCCGGCGGCCCGCGTCTCCCTAGGACCCGAGTCGGGCGGCCGGCAG
CGCTCCGCCTCCTCCTCCTGCTGGGCGCTGTCCTGAATCCCCACGAGGCCCTGGCTCAGCCTCTTCCCAC
CACAGGCACACCAGGGTCAGAAGGGGGGACGGTGAAGAACTATGAGACAGCTGTCCAATTTTGCTGGAAT
CATTATAAGGATCAAATGGATCCTATCGAAAAGGATTGGTGCGACTGGGCCATGATTAGCAGGCCTTATA
GCACCCTGCGAGATTGCCTGGAGCACTTTGCAGAGTTGTTTGACCTGGGCTTCCCCAATCCCTTGGCAGA
GAGGATCATCTTTGAGACTCACCAGATCCACTTTGCCAACTGCTCCCTGGTGCAGCCCACCTTCTCTGAC
CCCCCAGAGGATGTACTCCTGGCCATGATCATAGCCCCCATCTGCCTCATCCCCTTCCTCATCACTCTTG
TAGTATGGAGGAGTAAAGACAGTGAGGCCCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206531 protein sequence
Red=Cloning site Green=Tags(s)

MASLRVERAGGPRLPRTRVGRPAALRLLLLLGAVLNPHEALAQPLPTTGTPGSEGGTVKNYETAVQFCWN
HYKDQMDPIEKDWCDWAMISRPYSTLRDCLEHFAELFDLGFPNPLAERIIFETHQIHFANCSLVQPTFSD
PPEDVLLAMIIAPICLIPFLITLVVWRSKDSEAQA

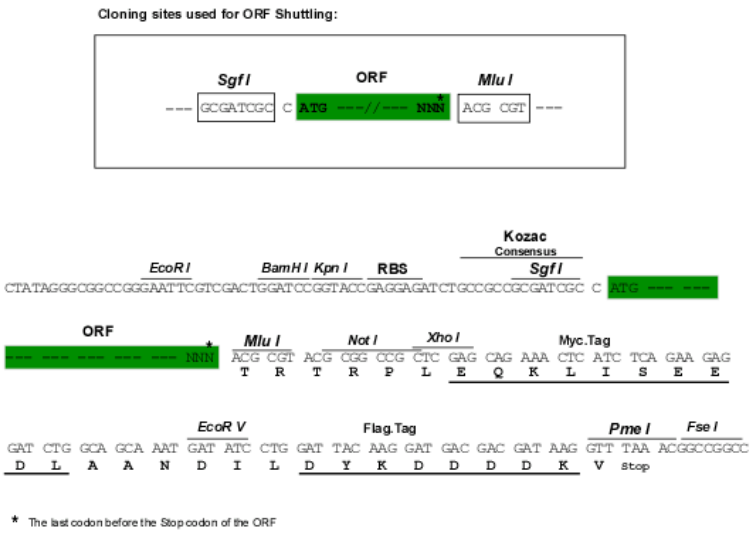
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6016_h06.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_005854

ORF Size: 525 bp

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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

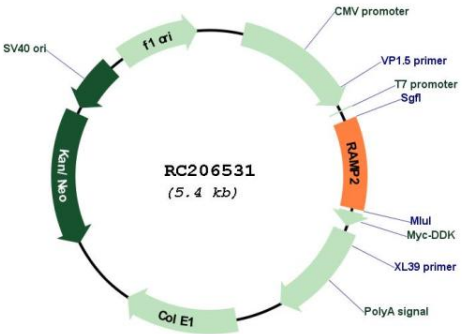
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

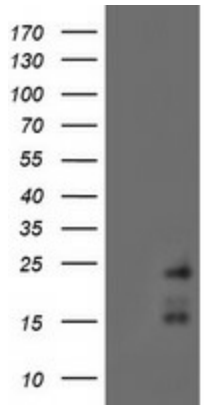
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_005854.3
RefSeq Size:	808 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
MW:	19.6 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 (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]

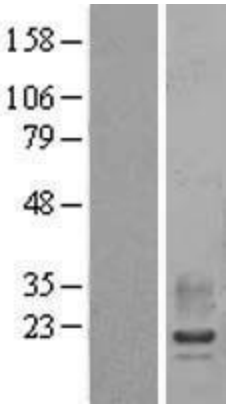
Product images:



Circular map for RC206531



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RAMP2 (Cat# RC206531, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RAMP2(Cat# [TA504410]). Positive lysates [LY401774] (100ug) and [LC401774] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206531 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).