

## Product datasheet for **RC209036**

### VIP Receptor 1 (VIPR1) (NM\_004624) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VIP Receptor 1 (VIPR1) (NM_004624) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VIP Receptor 1
Synonyms:	HVR1; II; PACAP-R-2; PACAP-R2; RDC1; V1RG; VAPC1; VIP-R-1; VIPR; VIRG; VPAC1; VPAC1R; VPCAP1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209036 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGCCCGCAAGTCCGCTGCCCGCCCGCTGGCTATGCGTGCTGGCAGGCGCCCTCGCCTGGGCCCTTG  
 GGCCGGCGGGCGGCCAGGCGGCCAGGCTGCAGGAGGAGTGTACTATGTGCAGATGATCGAGGTGCAGCA  
 CAAGCAGTGCCTGGAGGAGGCCAGCTGGAGAATGAGACAATAGGCTGCAGCAAGATGTGGGACAACCTC  
 ACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCTCATCTTCAAGCTTTCT  
 CCTCCATTCAAGCCGCAATGTAAGCCGACGTGCACCGACGAAGGCTGGACGCACCTGGAGCCTGGCCC  
 GTACCCATTGCCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGCAGACCATGTTCTACGGT  
 TCTGTGAAGACCGGCTACACCATCGGCTACGGCCTGTCCCTCGCCACCCTTCTGGTCCACAGCTATCC  
 TGAGCCTGTTCAGGAAGCTCCACTGCACGCGGAACACATCCACATGCACCTTTCATATCCTTCATCCT  
 GAGGGCTGCCGCTGTCTTCATCAAAGACTTGGCCCTTTCGACAGCGGGAGTCCGACCAGTGTCCGAG  
 GGCTCGGTGGGCTGTAAGGCAGCCATGGTCTTTTTCCAATATTGTGTCATGGCTAACTTCTTCTGGCTGC  
 TGGTGGAGGGCTCTACCTGTACACCCTGCTTGGCGTCTCCTTCTTCTCTGAGCGGAAGTACTTCTGGGG  
 GTACATACTCATCGGCTGGGGGGTACCCAGCACATTCACCATGGTGTGGACCATCGCCAGGATCCATTTT  
 GAGGATTATGGGTGCTGGGACACCATCAACTCCTCACTGTGGTGGATCATAAAGGGCCCCATCCTCACCT  
 CCATCTTGGTAAACTTCATCCTGTTTATTTGCATCCGAATCCTGCTTCAGAACTGCGGCCCCCAGA  
 TATCAGGAAGAGTGACAGCAGTCCATACTCAAGGCTAGCCATGTCACACTCCTGCTGATCCCCCTGTTT  
 GGAGTACACTACATCATGTTTCGCCTTCTTCCGGACAATTTAAGCCTGAAGTGAAGTGGTCTTTGAGC  
 TCGTCGTGGGGTCTTTCCAGGGTTTGTGGTGGCTATCCTCTACTGCTTCCCTCAATGGTGAAGTGCAGGC  
 GGAGCTGAGGCGGAAGTGGCGGCCCTGGCACCTGCAGGGCGTCCCTGGGCTGGAACCCCAAATACCGGCAC  
 CCGTCCGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGACCCGCGTCAGCCAGGTG  
 CCCCGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209036 protein sequence  
 Red=Cloning site Green=Tags(s)

MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEEDYVQMIIEVQHKQCLEEAQLENETIGCSKMWDNL  
 TCWPATPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTHLEPGPYIACGLDDKAASLDEQQTMYFG  
 SVKTGYTIGYGLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSE  
 GSVGCKAAMVFFQYCVMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYLIGWVGPSTFTMVWTIARIHF  
 EDYGCWDTINSSLWWIIKGPILTSILVNFILFICIRILLQKLRPPDIRKSDSSPYSRLAMSTLLLIPLF  
 GVHYIMFAFFPDNFKPEVKMVFELVVGFSQGFVVAILYCFLNGEVQAELRRKWRRWHLQVGLGWNPKYRH  
 PSGGSNGATCSTQVSMLTRVSPGARRSSSFQAEVSLV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6832\\_a06.zip](https://cdn.origene.com/chromatograms/mk6832_a06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_004624

**ORF Size:** 1371 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\\_004624.4](#)

**RefSeq Size:** 2808 bp

**RefSeq ORF:** 1374 bp

**Locus ID:** 7433

**UniProt ID:** [P32241](#)

**Cytogenetics:** 3p22.1

**Domains:** 7tm\_2, HormR

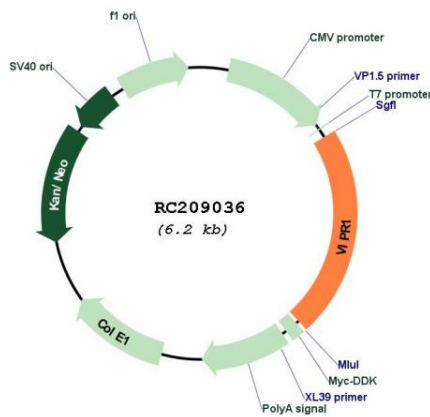
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 51.5 kDa

**Gene Summary:** This gene encodes a receptor for vasoactive intestinal peptide, a small neuropeptide. Vasoactive intestinal peptide is involved in smooth muscle relaxation, exocrine and endocrine secretion, and water and ion flux in lung and intestinal epithelia. Its actions are effected through integral membrane receptors associated with a guanine nucleotide binding protein which activates adenylate cyclase. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

**Product images:**



Circular map for RC209036