

## Product datasheet for **RG234012**

### VIP Receptor 1 (VIPR1) (NM\_001251884) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VIP Receptor 1 (VIPR1) (NM_001251884) Human Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234012 representing NM\_001251884  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCGTGTGGCAGGCGCCCTCGCTGGGCCCTTGGGCCGGCGGTGCAGCAAGATGTGGGACAACCTCA  
 CCTGCTGGCCAGCCACCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCCTCATCTTCAAGCTCTTCTC  
 CTCCATTCAAGGCCGAATGTAAGCCGACGCTGCACCGACGAAGGCTGGACGCACCTGGAGCCTGGCCCCG  
 TACCCCATTCGCTGTGGTTGGATGACAAGGCAGCGAGTTGGATGAGCAGACCATGTTCTACGGTCTGTG  
 TGAAGACCGGCTACACCATGGCTACGGCCTGTCCCTCGCCACCCTTCTGGTCGCCACAGCTATCCTGAG  
 CCTGTTCCAGGAAGCTCCACTGCACGCGGAACACATCCACATGCACCTCTTCATATCCTTCATCCTGAGG  
 GCTGCCGCTGTCTTCATCAAAGACTTGGCCCTCTTCGACAGCGGGGAGTCGGACCAGTGTCCGAGGGCT  
 CGGTGGGCTGTAAGGCAGCCATGGTCTTTTCCAATATTGTGTCATGGCTAACTTCTTCTGGCTGTGGT  
 GGAGGGCCTACCTGTACACCCTGCTTGGCCTCTCTTCTCTGAGCGGAAGTACTTCTGGGGTAC  
 ATACTCATCGGCTGGGGGTACCCAGCACATTCACCATGGTGTGGACCATCGCCAGGATCCATTTTGAGG  
 ATTATGGGTGCTGGGACACCATCAACTCCTCACTGTGGTGGATCATAAAGGGCCCATCCTCACCTCCAT  
 CTTGGTAAACTTCATCCTGTTTATTTGCATCATCCGAATCCTGCTTACAGAACTGCGGCCCCAGATATC  
 AGGAAGAGTGACAGCAGTCCATACTCAAGGCTAGCCAGGTCCACACTCCTGCTGATCCCCCTGTTTGGAG  
 TACACTACATCATGTTCCGCTTCTTTCCGGACAATTTAAGCCTGAAGTGAAGATGGTCTTTGAGCTCGT  
 CGTGGGGTCTTTCCAGGGTTTGTGGTGGCTATCCTCTACTGCTTCTCAATGGTGAAGTGCAGGCGGAG  
 CTGAGGCGGAAGTGGCGGCGTGGCACCTGCAGGGCGTCTGGGCTGGAACCCCAATACCGGCACCCGT  
 CGGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGACCCGCGTCAGCCAGGTGCCCG  
 CGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234012 representing NM\_001251884  
 Red=Cloning site Green=Tags(s)

MRAGRRPRLGPWAGGCSKMWDNLTWPATPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTHLEPGP  
 YPIACGLDDKAASLDEQTMFYGSVKTGYTIGYGLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILR  
 AAAVFIKDLALFDSGESDQCSEGSVGCAMVFFQYCVMANFFWLLVEGLYLYTLLAVSFFSERKYFWGY  
 ILIGWVGPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIGPILTSILVNFILFICIRILLQKLRPPDI  
 RKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMFELVVGFSFGFVVAILYCFLNGEVQAE  
 LRRKWRWHLQVGLGWNPKYRHPSSGNGATCSTQVSMLTRVSPGARRSSSFQAEVSLV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001251884

**ORF Size:** 1227 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\\_001251884.1](#), [NP\\_001238813.1](#)

**RefSeq Size:** 2699 bp

**RefSeq ORF:** 1230 bp

**Locus ID:** 7433

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

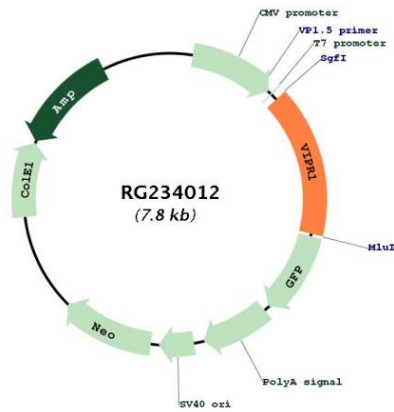
**Cytogenetics:** 3p22.1

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

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

**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 RG234012