

Product datasheet for **RG234030**

VIP Receptor 1 (VIPR1) (NM_001251882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VIP Receptor 1 (VIPR1) (NM_001251882) 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:

>RG234030 representing NM_001251882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCGAGGTGCAGCACAAAGCAGTGCCTGGAGGAGGCCAGCTGGAGAATGAGACAATAGGCTGCAGCA
 AGATGTGGGACAACCTCACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCT
 CATCTTCAAGCTCTTCTCCTCCATTCAAGGCCGAATGTAAGCCGAGCTGCACCGACGAAGGCTGGACG
 CACCTGGAGCCTGGCCGTACCCATTGCCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGC
 AGACCATGTTCTACGTTTCTGTGAAGACCGCTACACCATTGGCTACGGCCTGTCCCTCGCCACCCTTCT
 GGTGCGCCACAGCTATCCTGAGCCTGTTCAGGAAGCTCCACTGCACGCGGAACTACATCCACATGCACCTC
 TTCATATCCTTATCCTGAGGGCTGCCGTGTCTTCATCAAAGACTTGGCCCTCTCGACAGCGGGGAGT
 CGGACCAGTGCTCCGAGGGCTCGGTGGGCTGTAAGGCAGCCATGGTCTTTTTCCAATATTGTGCATGGC
 TAACTTCTTCTGGCTGCTGGTGGAGGGCTCTACCTGTACACCCTGCTTGCCGTCTCCTTCTTCTGAG
 CGGAAGTACTTCTGGGGTACATACTCATCGGCTGGGGGTACCCAGCACATTCACCATGGTGTGGACCA
 TCGCCAGGATCCATTTTGGATTATGGGTGCTGGGACACCATCAACTCCTCACTGTGGTGGATCATAAA
 GGGCCCCATCCTCACCTCCATCTTGGTAAACTTCATCCTGTTATTTGCATCATCCGAATCCTGTTTCAG
 AAAGTGGCGCCCCAGATATCAGGAAGAGTGACAGCAGTCCATACTCAAGGCTAGCCAGGTCCACACTCC
 TGCTGATCCCCCTGTTTGGAGTACACTACATCATGTTCGCCTTCTTCCGGACAATTTAAGCCTGAAGT
 GAAGATGGTCTTTGAGCTCGTCGTGGGGTCTTCCAGGGTTTTGTGGTGGCTATCCTCTACTGCTTCCTC
 AATGGTGAAGTGCAGGCGGAGCTGAGGCGGAAGTGGCGGGCTGGCACCTGCAGGGCGTCCCTGGGCTGGA
 ACCCAAATACCGGCACCCGTCGGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGAC
 CCGCGTCAGCCCAGGTGCCCGCCGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234030 representing NM_001251882
 Red=Cloning site Green=Tags(s)

MIEVQHKQCLEEAQLENETIGCSKMWDNLTCPATPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWT
 HLEPGPYPIACGLDDKAASLDEQQTMYFYSVKTYTIGYGLSLATLLVATAILSLFRKLHCTRNYIHMHL
 FISFILRAAAVFIKDLALFDSGESDQCSEGSVGCAMVFFQYCVMANFFWLLVEGLYLYTLLAVSFFSE
 RKYFWGYILIGWVGPSTFTMVWTIARIHFEDYGCWDTINSSLWIIKGPILTSILVNFILFICIRILLQ
 KLRPPDIRKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELVVGFSQGFVVAILYCFL
 NGEVQAELERRKRRRWHLQGVLGWNPKYRHPSSGNSGATCSTQVSMLTRVSPGARRSSSFQAEVSLV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001251882

ORF Size: 1248 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_001251882.1](#), [NP_001238811.1](#)

RefSeq Size: 3185 bp

RefSeq ORF: 1251 bp

Locus ID: 7433

UniProt ID: [P32241](#)

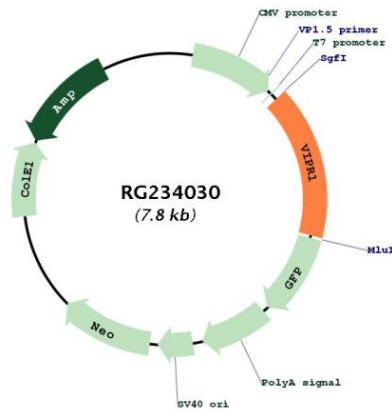
Cytogenetics: 3p22.1

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 RG234030