

Specifications:

Gene:	hVIPR1
Accession:	NP_004615
Insert size:	1387bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

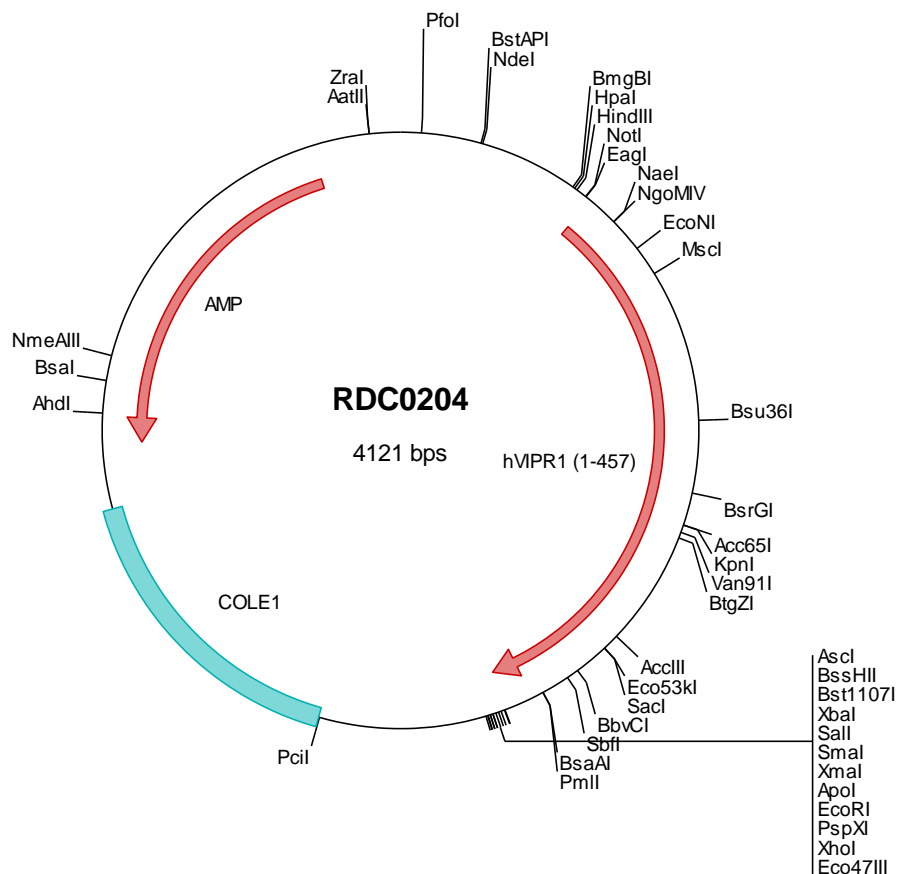
hVIPR1/VPAC1 cDNA Plasmid

VIPR1 vasoactive intestinal peptide receptor 1 [*Homo sapiens*]

Also known as: II; HVR1; RDC1; V1RG; VIPR; VIRG; VAPC1; VPAC1; VPAC1R; VIP-R-1; VPCAP1R; PACAP-R2; PACAP-R-2

Summary:

VIPR1 is the receptor for vasoactive intestinal peptide (VIP), a small neuropeptide. VIPR1 is expressed in lung, HT29 colonic epithelial cells, Raji B-lymphoblasts, brain, heart, kidney, liver and placenta. Its actions are effected through integral membrane receptors associated with a guanine nucleotide binding protein which activates adenylate cyclase. VIP and VIPR1 are involved in smooth muscle relaxation, exocrine and endocrine secretion, and water and ion flux in lung and intestinal epithelia.





> RDC0204 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tetgtagcgc gggcggcaacc atgcccggc caagtccgct gcccggcccg ttgctatgcg tctggcagg
501 cgccctcgcc tgggcccctg ggcggcggg cgccaggcg gccaggctgc aggaggagtg tgactatgtg cagatgatcg aggtgcagca caagcagtg
601 ctggaggagg cccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgctggo cagccacccc tcggggccag gtagttgtct
701 tggcctgtcc cctcatcttc aagctcttct cctccattca aggcggcaat gtaagccgca gctgcaccga cgaaggctgg acgcacctgg agcctggccc
801 gtaccocatt gcctgtgggt ttgatgacaa ggcagcagtg ttggatgagc agcagaccat gttctacggt tctgtgaaga ccggctacac cattggctac
901 ggcctgtccc tcgccaccct tctggtgccc acagctatcc tgagcctggt caggaagctc cactgcaccg ggaactacat ccacatgcaac ctctcaat
1001 ccttaoctct gagggtgccc gctgtcttca tcaaaagact ggcctcttcc gagacgggg agtgggacca gtgctccgag ggtcgggtgg gctgtaaggc
1101 agccatggtc tttttcoaatt attgtgctat ggctaacttc tctggctgctc ttgtggaggg cctctacctg tacaccctgc ttgcccctcc cttctctct
1201 gagcgggaagt acttotgggg gtaacatctc atogcctggg gggtaaccag cacattcacc atgggtgtgga ccacgcaccg gatccatctt gaggattatg
1301 ggtgctggga caccataaac tctcactgt ggtggatcat aaagggcccc atctcaccat ccactctggt aaacttctac ctgtttatct gcatcatccg
1401 aatcctgctt cagaaactgc ggcocccaga tatcaggaaag agtgacactc gttccatctc aaggctagcc aggtccacac tctctgtgat cccctgttt
1501 ggagtacaact acatcaatggt cgctctcttt ccggacaatt ttaagcctga agtgaagatg gttcttgagc tctgtgtggg gttcttccag ggttttggtg
1601 tggctatctt ctactgtctc ctcaatgggt aggtgcaggc ggagctgagg cgggaagtggc ggcgctggca cctgcagggc gtcctggggt ggaaccccaa
1701 ataccggcac ccgtgggggt gcagcaacgg gcccacgtgc ttccatgctt gaccccgctc agcccagggt agcccagggt cccgctacac ctacccttc
1801 caagccgaag tctccctggt ctaaaaggcc gccagtatat tctagatctg acacccgggg aattcctcga gcgctcgtct ctactctggc gtaatcatgg
1901 tcatagctgt ttcctgtgtg aaattgttat ccgctcacaa ttccacacaa catacagacc ggaagcataa agtgtaaagc ctgggggtgccc taatgagtga
2001 gctaactcac attaatggcg ttgcgctcac tgcccgtttt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg
2101 cggtttgcgt attgggcccct cttccgcttc ctgcctcact gactcgtgct gctcgtcgtt tgggtcggcg cgagcgggat cagctcactc aaaggcggta
2201 ataccggtat ccacagaact aggggataac gcagaaaaga acatgtgagc aaaaggccag caaaaaggcca ggaaccgtaa aaaggcccgg ttgctggcgt
2301 ttttccatag gctccgcccc cctgacgagc atcacaaaaa tgcagcctca agtcagaggt ggcgaaaccc gacaggaacta taaagatacc aggcgtttcc
2401 ccctggaagc tccctcgtgc gctctcctgt tccgacctcg ccgcttaccg gatacctgtc cgctttctcc ccttcgggaa gcgtggcgct ttctcaatgc
2501 tcacgctgta ggtatctcag ttcggtgtag gtogttcgt ccaagctggg ctgtgtgcac gaacccccg ttcagcccga ccgctgcgccc ttatccggta
2601 actatcgctc tgagtccaac ccggtaaagc acgacttctc gccactggca gcagcactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac
2701 agagtctctg aagtgggtgg ctaactacgg ctacactaga aggacagtat ttggtatctg cgctcgtgct aagccagtta ccttcggaaa aagagtgtgt
2801 agctcttgat ccggcaaaaca aaccaccgct ggtagcgggt gttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt
2901 tgatcttttc tacgggttct gacgctcagt ggaacgaaaa ctacggttaa gggattttgg tcatgagatt atcaaaaagg atcttcaact agatcctttt
3001 aaattaaaaa tgaagtttta aatcaatcta aagtatata gtagtaaaact ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctacgagctc
3101 tgtctatttc gttcatccat agttgcctcg ctcccgtcg tgtagataac tacgatacag gagggtctac catctggccc cagtgtgca atgataccgc
3201 gagaccacag ctcaaccgct ccagatttat cagcaataaa ccagcccagc ggaaggggcg agcgcagaag ttggtcctgca actttatccg cctccatcca
3301 gtctattaat tgttgcgggg aagctagagt aagtagttcc ccagtttaata gtttgcgcaa cgttgttgcc attgctacag gcacogtgggt gtcacogctc
3401 tctgtttgta tggcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc
3501 cgatcgttgt cagaagtaag ttggcccgag ttgtatcact catggttatg gcagcactgc ataattctct tactgtcatg ccactccgtaa gatgttttc
3601 tgtgactggt gactactcaa ccaagctatt ctgagaatag tgtatgcggc gaaccagttg ctcttgcccg gcgtcaatac gggataatac cgcgccaact
3701 agcagaactt taaaagctt catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccg agtttgagatc cagttcogatg taaccactc
3801 gtgcacccaa ctgatcttca gcacttttta ctttcaccag ctgttctggg tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa taaggcgac
3901 acggaatgt tgaatactca tactcttctt ttttcaatat tattgaagca ttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag
4001 aaaaataaac aatatggggt tcccgcgaca tttccccgaa aagtgcacc tgacgtctaa gaaccatta ttatcatgac attaacctat aaaaataggc
4101 gtatcacgag gcccttctgt c

> RDC0204 Translated Insert Sequence

1 mrppsplpar wlcvlagala walpaggga arlqeecdyv qmievhkqk leeaqlenet igcsmwdnl tcwpatprgq vvvlaclpif klfssiqrn
101 vsrscddegw thlepypipi acgliddkaas ldeqgtmfyg svktgytigy glslatliva tailslfrkl hctrnyihmh lfisfilraa avfikdlalf
201 dsgesdqse gsvgckaamv ffqycvmanf fwllveglyl ytlavsfys erkyfwyil igwgvpstft mvwtiarihf edygcwdtin sslwiiikgp
301 iltsilvnfi lficirill qklrppdir ksdspysrla rstlllipf gvhyimfaff pdnfkpevkm vfelvvgsfq gfvvailycf lngevqaelr
401 rkwrwhlqg vlgwnpkryh psggsngatc stqvsmltrv spgarsssf qaevsly