

Product datasheet for SC117992

VPAC2 (VIPR2) (NM_003382) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPAC2 (VIPR2) (NM_003382) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPAC2
Synonyms:	C16DUPq36.3; DUP7q36.3; PACAP-R-3; PACAP-R3; VIP-R-2; VPAC2; VPAC2R; VPCAP2R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117992 sequence for NM_003382 edited (data generated by NextGen Sequencing)

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ATGCGGACGCTGCTGCCCTCCCGCTGCTGACCTGCTGGTGCTCGCCCCGTGAACAGC
ATTCACCCAGAATGCCGATTTTCATCTGGAAATACAGGAGGAAGAAACAAAATGTGCAGAG
CTTCTGAGGTCTCAAACAGAAAAACACAAAGCCTGCAAGTGGCGTCTGGGACAACATCACG
TGCTGGCGGCTGCCAATGTGGGAGAGACCGTCACGGTGCCTGCCAAAAGTCTTCAGC
AATTTTTACAGCAAAGCAGGAAACATAAGCAAAACTGTACGAGTGACGGATGGTCAGAG
ACGTTCCAGATTTCTGTCGATGCCTGTGGCTACAGCGACCCGGAGGATGAGAGCAAGATC
ACGTTTTATATTCTGGTGAAGGCCATTTATACCCTGGGCTACAGTGTCTCTGTATGTCT
CTTGCAACAGGAAGCATAAATTCTGTGCCTTTCAGGAAGCTGCACTGCACCAGGAATTAC
ATCCACCTGAACCTGTTCTGTCTTCATCCTGAGAGCCATCTCAGTGTGGTCAAGGAC
GACGTTCTCTACTCCAGCTCTGGCAGTTGCACTGCCCTGACCAGCCATCCTCCTGGGTG
GGCTGCAAGCTGAGCCTGGTCTTCTGCACTACTGCATCATGGCCAACCTTCTTGGCTG
CTGGTGGAGGGGCTCTACCTCCACACCCTCCTGGTGGCCATGCTCCCCCTAGAAGGTGC
TTCTGGCCTACCTCCTGATCGGATGGGGCCTCCCCACCGTCTGCATCGGTGCATGGACT
GCGGCCAGGCTCTACTTAGAAGACACCGGTTGCTGGGATACAAATGACCACAGTGTGCC
TCTCAGTACAAGAGGCTGGCCAAGTCCAGCTCCTGCTTATCCCGTGTTCGGCGTCCAC
TACATGGTGTTCGCCGTGTTCCCATCAGCATCTCCTCCAAATACCAGATACTGTTTGAG
CTGTGCCTCGGGTCTTCCAGGGCCTGGTGGTGGCCGCTCCTACTGTTTCTGAACAGT
GAGGTGCAGTGCAGCTGAAGCGAAAATGGCGAAGCCGGTCCCCGACCCCGTCCGCGAGC
CGGGATTACAGGGTCTGCGGTTCTCCTTCTCCCGCAACGGCTCGGAGGGCGCCCTGCAG
TTCCACCGCGGCTCCCGCGCCAGTCTCCTGCAAAACGGAGACCTCGGTATCTAG

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Clone variation with respect to NM_003382.4
825 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003382 unedited</p> <pre> ATTTTGTAAACGACTACTATAGGGACGGCACGCGNAATTCGGCACCAGGCGGAACCGC GGGGACCTATGACGGAGGCGGGCGCTGGGCGGCCCGGCACGCTGAGCTCGGGATG CGGACGCTGCTGCCTCCCGCGCTGCTGACCTGCTGGCTGCTCGCCCCGTGAACAGCATT CACCCAGAATGCCGATTTTCATCTGAAAATACAGGAGGAAGAAAACAAAATGTGCAGAGCTT CTGAGGTCTCAAACAGAAAAACAAAAGCCTGCAGTGGCGTCTGGGACAACATCACGTGC TGGCGGCTGCCAATGTGGGAGAGACCGTACCGTGGCTGCCAAAAGTCTTCAGCAAT TTTTACAGCAAAGCAGGAACATAAGCAAAAACGTACGAGTGACGGATGGTCAGAGACG TTCCAGATTTTCGTCGATGCCTGTGGCTACAGCGACCCGAGGATGAGAGCAAGATCACG TTTTATATTCTGGTGAAAGCCATTTATACCCTGAGCTACAGAGTCTCTCTGATGTCTCTT GCAACAGGAAGCATAATTCTGTGCCTCTCAAGAAGCTGCACTGCACCAGGAATTACATC CACCTGAACCTGTTCTGTCTTCATCCTGAGAGCCATCTCAGTGTAGTCAAAGACGAC GTTCTCTACTCCAGCTCTGGCACGTTGCACTGCCCTGACCATCCATCCTCCTGAGTGGGC TGCAAGCTGAGCCTGGTCTTCTGCAGTACTGCATCATGGCCAACTTCTCTGGTGTCTG GAGGATGAGCTCTACCTNACACCCTCCTGGTGGCCATGCCTCCCCCTATAAAGAGCTTCT GGCTACTCCTGATCGGATGGGCTCNCACCGTCTGCATCGTGCATGACTGAGCCAGGCT CTACTAAAGACACAGNTGCTGGGATCAATGACCCAGGTGCCCTGTAGGTATAACAATACGA TGTAATGCATCTCGCATNTGNCCTTTCATANATTTACATTTGCTGAAATTACATCCAN </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003382 unedited</p> <pre> AAGCATTGGGNGCGCTCTATGTGTTTTACCAGATCATTCCC GCCGTGGAGGAGTCTGC GTTTTTCCACACACAATGACAGTTAAAGACACCTGCTGACCACTGGNGTCTGGTTCCT CCTGGCTCACTCAGGCTATCATGTGAGGAAACAGCTCGGCCTCCTCTACCTAGGAGAAA CCAGTCAGCTCCGCTGAACAGTGGCACATGTGCGGTTGAGGGGAGATTGCCCTGAGCA CACCTGATGACTGATGACTGCCACACCCAACCCGACCATCAACAACCAAGTGCCTGGT AACCACCTGACACGTCCACTCACGCCACTTCCTCAGCGTCCCCTCTGGGTACAGCTCA GTGTGGGACCTGGCCACTGACCAACACCTTCAGTTACCACAAATCTTTGTTTCCTCAA AAACCTGAGAGTAGGTGGGGATGTCCCTTTTGTCTTTGAAAGCTGGGCAAGGCTGGG GGTGGGTCTGTCAAACCTACAGGGGAGGAACAGCCGAGGGGCCGCACTGAACCTGGGG TCTGCAGCGTCCACCTGCCTCCCTCTNGCTCCACATGCTCAGCCGTCCTTCTGGGCAC CTGGCCTGGGCCGTTTACTCCCCAGTATCCGCTGTGATGGATCCTCTGCGGCCCCGAG AATGGTGGGTGATTTGTAGATCCGACCGTCTACCTGTCTCCCAAACCAACCTTGGGT TCATTCTCCCAGCAGTCCAGGGATGAGCTTGTGTCAGCANAGGGGTGTGGCCCGCGTGC CCAGGGTGTGCAGGACAGGGTGTGACCTTTGGGGATTGAAGGGTCTCTGGACACTGCTG CTTTGCTGTCTAACAGCCCTTTTGTCCGGCCTATTTACCTGGGGAATGGGTTTTGCA ACCACGTGN </pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_003382
Insert Size:	3850 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003382.3](#), [NP_003373.2](#)

RefSeq Size: 3958 bp

RefSeq ORF: 1317 bp

Locus ID: 7434

UniProt ID: [P41587](#)

Cytogenetics: 7q36.3

Domains: 7tm_2, HormR

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. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (1) encodes the longest isoform (1).