

Product datasheet for **SC110836**

AVPR1A (NM_000706) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AVPR1A (NM_000706) Human Untagged Clone
Tag: Tag Free
Symbol: AVPR1A
Synonyms: AVPR1; AVPR V1a; V1aR
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000706, RT-PCR generated
 ATGGACAGCATGCGTCTCTCCGCCGTCCCGACGCGGGCCCTCGGGCAACTCCAGCCCA
 TGGTGGCCTCTGGCCACCGGCGCTGGCAACACAAGCCGGAGGCCGAAGCCCTCGGGGAG
 GGCAACGGCCACCGAGGACGTGCGCAACGAGGAGCTGGCCAAACTGGAGATCGCCGTG
 CTGGCGGTGACTTTTCGGGTGGCCGTGCTGGGCAACAGCAGCGTACTGCTGGCTCTGCAC
 CGGACGCCGCGAAGACGTCCCGCATGCACCTTTCATCCGACACCTCAGCCTGGCCGAC
 CTGGCCGTGGCATTCTCCAGGTGCTGCCGCAATGTGCTGGGACATCACCTACCGCTTC
 CGCGGCCCGACTGGCTGTGCCGCGTGGTGAAGCACCTGCAGGTGTTCCGCATGTTCCGG
 TCGGCCTACATGCTGGTAGTCATGACAGCCGACCGCTACATCGCGGTGTGCCACCCGCTC
 AAGACTCTGCAACAGCCCGCGCCGCTCGCGCCTCATGATCGCGGCCGCTGGGTGCTG
 AGCTTCGTGCTGAGCACCCGAGTACTTCGTCTTCTCCATGATCGAGGTGAACAATGTC
 ACCAAGGCCCGGACTGCTGGGCCACCTTCATCCAGCCCTGGGGTTCTCGTGCCTACGTC
 ACCTGGATGACGGCGGCATCTTTGTGGCGCCCGTGGTCATCTTGGGTACCTGCTACGGC
 TTCATCTGCTACAACATCTGGTGAACGTCCCGGGGAAGACGGCGTCGCGCCAGAGCAAG
 GGTGCAGAGCAAGCGGTGTGGCCTTCCAAAAGGGGTTCTGCTCGCACCTGTGTGACG
 AGCGTGAAGTCCATTTCCCGGGCAAGATCCGCACGGTGAAGATGACTTTTGTGATCGTG
 ACGGCTTACATCGTCTGCTGGGCGCCTTCTTCATCATCCAGATGTTGCTGTCTGGGAT
 CCCATGTCCTGCTGGACCGAATCGGAAAACCCTACCATCACCATCACTGCATTACTGGGT
 TCCTTGAATAGCTGCTGTAATCCCTGGATACATGTTTTTTAGTGGCCATCTCCTTCAA
 GACTGTGTTCAAAGCTTCCCATGCTGCCAAAACATGAAGGAAAAATTCAACAAAGAAGAT
 ACTGACAGTATGAGCAGAAGACAGACTTTTTATTCTAACAAATCGAAGCCCAACAAACAGT
 ACGGGTATGTGGAAGGACTCGCCTAAATCTTCCAAGTCCATCAAATTCATTCTGTTTCA
 ACTTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000706 unedited
 NNNNGTGAAGTCATAATTGTATACGACTCACTAAGGCGGCCGACGAATTCGCTTAGTAGG
 AGCTGCATGGACAGCATGCGTCTCTCCGCCGGTCCCGACCGGGCCCTCGGGCAACTCCA
 GCCCATGGTGGCTCTGGCCACCGGCGCTGGCAACACAAGCCGGGAGGCCGAAGCCCTCG
 GGGAGGGCAACGGCCACCGAGGGACGTGCGCAACGAGGAGCTGGCCAACTGGAGATCG
 CCGTGTGGCGGTGACTTTCGCGGTGGCCGTGCTGGGCAACAGCAGCGTACTGCTGGCTC
 TGCACCGGACCCGCGCAAGACGTCCCGCATGCACCTCTTCATCCGACACCTCAGCCTGG
 CCGACCTGGCCGTGGCATTCTCCAGGTGCTGCCGCAAATGTGCTGGGACATCACCTACC
 GCTTCCGCGGCCCGACTGGCTGTGCCGCGTGGTGAAGCACCTGCAGGTGTTCCGGCATGT
 TCGCGTCGGCCTACATGCTGGTAGTCATGACAGCCGACCGCTACATCGCGGTGTGCCACC
 CGCTCAAGACTCTGCAACAGCCCGCGCGCCGCTCGCGCCTCATGATCGCGGCCGCTGGG
 TGCTGAGCTTCGTGCTGAGCAGCCGCGAGTACTTCGTCTTCTCCATGATCGAGGTGAACA
 ATGTCACCAAGGCCCGCGACTGTGGGCCACCTTCATCCAGCCCTGAGGTTCTCGTGCCT
 ACGTGACCTGNATGACGGGCGGCATCTTTGTGGCGCCCGTGGTTCATCTTGAGTACCTGCT
 ACGGCTTCATCTGCTACACATCTGGGTGCACGTCCGCGGGGAGACGGCGTCGCGCCAGAG
 CAAGGGTGCAGAGCAAGCGGGTGTGGCCTTCAAAGGGGTTTCTGCTNGCACCTGTGTC
 AGCAGCGTGGAGTCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000706 unedited
 CTGGCTATGGCGATGGCACTCTCCAGGGCCAGGATAGCACTGGGGNAGGGTCACAGGCAG
 CCACCCGGGCATCTGTTCCAGGAAAACAGCTATGACCGCGCCGCAATCTATAGTCGACAA
 GCTTGATATCGGTACCAGATCTGAATTCGGCTTCAAGAATCAAGTTGCATGAATGCAAGG
 CTTCAAGTTGAAACAGGAATGAATTTGATGGACTTGAAGATTTAGGCGAGTCCTTCCACA
 TACCCGTAAGTGTGTTGGGCTTCGATTGTTAGAATAAAAAGTCTGTCTTCTGCTCATA
 TGTCAGTATCTTCTTTGTTGAATTTTTCTTCATGTTTTGGCAGCATGGGAAGCTTTGAA
 CACAGTCTTGAAGGAGATGGCCACTAAAAACATGTATATCCAGGGATTACAGCAGCTAT
 TCAAGGAACCCAGTAATGCAGTGATGGTGTAGGTTTTCCGATTCCGGTCCAGACGG
 ACATGGGATCCCAGACAGACCACATCTGGATGATGAAGAAAGGCGCCAGCAGACGATGT
 AAGCCGTCACGATCACAAAAGTCATCTTACCCTGCGGATCTTGGCCCGGAAATGGACT
 TCACGCTGCTGACACAGGGTGCAGCAGGAACCCCTTTTGAAGGCCACACCCGCTTGCT
 CTGCACCCTTGCTGGCGCGACGCCGCTTCCCGCGGACGTTGCACCAGATGTTGTAGC
 AGATGAAGCCGTAGCATGTACCCAAGATGACCACGGGCGCCACATAGATGCCGCCCGTCA
 TCCATGTACGTANGCACGAGAACCCAGGCTGTATGAATGTGGCCANCACTCGCGGGC
 CTTGGTGCATTGTTACCTCGATCATGGGAGAAAACATATACTGCNGCGTT

Restriction Sites:

Please inquire

ACCN:

NM_000706

Insert Size:

1350 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_000706.3](#), [NP_000697.1](#)

RefSeq Size: 4154 bp

RefSeq ORF: 1257 bp

Locus ID: 552

UniProt ID: [P37288](#)

Cytogenetics: 12q14.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

Gene Summary: The protein encoded by this gene acts as receptor for arginine vasopressin. This receptor belongs to the subfamily of G-protein coupled receptors which includes AVPR1B, V2R and OXT receptors. Its activity is mediated by G proteins which stimulate a phosphatidylinositol-calcium second messenger system. The receptor mediates cell contraction and proliferation, platelet aggregation, release of coagulation factor and glycogenolysis. [provided by RefSeq, Jul 2008]