

Product datasheet for **RG210436**

AVPR1A (NM_000706) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AVPR1A (NM_000706) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AVPR1A
Synonyms:	AVPR1; AVPR V1a; V1aR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210436 representing NM_000706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCGTCTCTCCGCCGTCCCGACGCGGGCCCTCGGGCAACTCCAGCCCATGGTGGCCTCTGGCCACCG
GCGCTGGCAACACAAGCCGGGAGGCCGAAGCCCTCGGGGAGGGCAACGGCCACCAGGGGACGTGCGCAA
CGAGGAGCTGGCCAACTGGAGATCGCCGTGCTGGCGGTACTTCGCGGTGGCCGTGCTGGCAACAGC
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GCCTGGCCGACCTGGCCGTGGCATTCTCCAGGTGCTGCCGAAATGTGCTGGGACATCACCTACCGCTT
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CGCGCCGCTCGCGCCTCATGATCGCGGCCCGCTGGGTGCTGAGCTTCGTGCTGAGCACGCCCGAGTACTT
CGTCTTCCATGATCGAGGTGAACAATGTCACCAAGGCCCGGACTGCTGGGCCACCTTCATCCAGCCC
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CCTGCTACGGCTTCATCTGCTACAACATCTGGTGAACGTCCGCGGAAGACGGCGTCCGCCAGAGCAA
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ACAAAGAAGATACTGACAGTATGAGCAGAAGACAGACTTTTTATTCTAACAAATCGAAGCCCAACAAACAG
TACGGGTATGTGGAAGGACTCGCCTAAATCTTCCAAGTCCATCAAATTCATTCCTGTTTCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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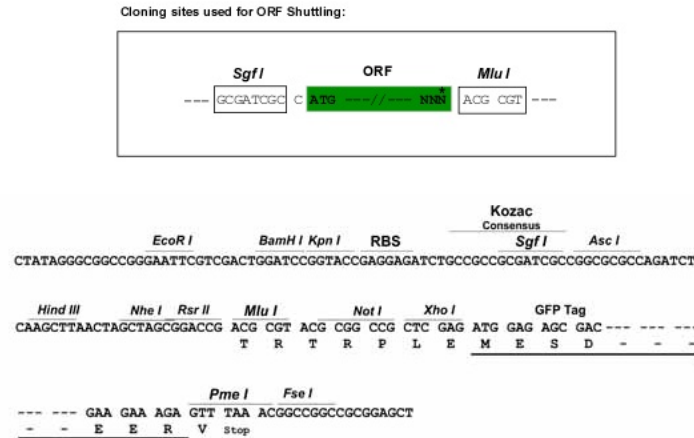
Protein Sequence: >RG210436 representing NM_000706
 Red=Cloning site Green=Tags(s)

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MRLSAGPDAGPSGNSSPWPLATGAGNTSREAEALGEGNGPPRDVRNEELAKLEIAVLAVTFFAVAVLGN
SVLLALHRTPRKTSRMHLFIRHLADLAVAFFQVLPQMCWDITYRFRGPDWLCRVVVKHLQVFGMFASAY
MLVVMTADRYIAVCHPLKTLQQPARRSRMIAAAWVLSFVLPSTPQYFVFVSMIEVNNVTKARDCWATFIQP
WGSRAYVTWMTGGIFVAPVVILGTCYGFICYNIWCNVRGKTASRQSKGAEQAGVAFQKGFLLAPCVSSVK
SISRAKIRTVKMTFVIVTAYIVCWAPFFIIQMWSVWDPMSVWTESENPTITITALLGSLNSCCNPWIYMF
FSGHLLQDCVQSFPCQNMKEKFNKEDTDSMSRRQTFYSNNRSPNTSTGMWKDSPKSSKSIKFI PVST
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000706

ORF Size: 1254 bp

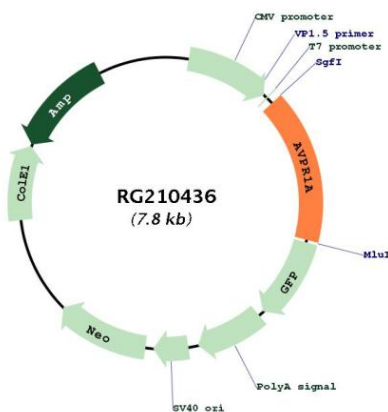
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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:	<ol style="list-style-type: none"> 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:	<u>NM_000706.5</u>
RefSeq Size:	4154 bp
RefSeq ORF:	1257 bp
Locus ID:	552
UniProt ID:	<u>P37288</u>
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]

Product images:



Circular map for RG210436