

Product datasheet for **RR202837**

Avpr1a (NM_053019) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Avpr1a (NM_053019) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Avpr1a |
| Synonyms: | AVPR; V1a; V1aR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR202837 representing NM_053019
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTTCCCGGAGGCTCCCAGGATCGGTCCGTGGCAACTCCAGCCCGTGGTGGCCTCTAACACCG
 AGGGCTCCAACGCGAGTCAGGAGGCAGCCAGGCTTGGGAAGGTGACAGCCCGCTGGGGGACGTACGCAA
 TGAGGAGCTGGCCAAACTGGAATCGCTGTGCTGGCAGTGATTTTGTGGTGGCTGTGCTGGGCAATAGC
 AGTGTGCTGTGGCGCTGCATCGCACGCCACGCAAGACATCCCGCATGCACCTCTTTATCCGACACCTCA
 GCCTGGCAGACCTGGCGGTGCCTTCTTCCAAGTATTACCGCAGCTATGCTGGGACATCACCTACCGCTT
 CCGCGGGCCGACTGGCTGTGCCGCGTGGTGAAGCACCTGCAGGTGTTGCCATGTTCCGCTCTGCCTAT
 ATGCTGGTGGTATGACAGCCGACCGCTACATCGCCGTGTCCACCCGCTCAAGACCCTGCAGCAGCCGG
 CGCGCCGCTCGCGCTCATGATCGCCACCTCTGGGTGCTGAGTTTCATACTAAGCACGCCACAGTACTT
 TATATTCTGTGATCGAAATCGAGGTGAACAATGGCACTAAAACCCAAGACTGTGGGCTACCTTCATC
 CAGCCCTGGGGTACCCGCGCCTACGTGACTGGATGACCAGCGGTGCTTCGTTGGCACCTGTGGTCTCT
 TGGGTACATGCTATGGTTCATCTGCTACCACATCTGGCGCAACATCCGCGGAAAGACAGCGTCTCGCG
 ACACAGCAAGGGTGACAAGGGCTCTGGGGAGGCCGTGGGTCCCTTTCATAAGGGGCTTTTGGTTACACCT
 TGTGTCAGCAGCGTGAAGAGCATTCCCGCGCCAAGATCCGCACTGTGAAGATGACCTTTGTGATTGTAA
 GCGCTACATCCTTTGCTGGGCGCCTTCTTATTGTCCAGATGTGGTCACTCTGGGATGAGAATTTTCAT
 CTGGACCGATTGAGAAAACCTTCCATCACAATCACGGCGTTGCTGGCTTCTTGAACAGCTGCTGCAAC
 CCGTGGATATACATGTTTTTTCAGTGGCCATCTCCTGCAAGACTGCGTCCAAGTTTCCCATGCTGCCACA
 GCATGGCGCAGAAATTCGCAAGGATGACTCCGATAGCATGAGCCGAAGACAGACTTCTTATTCTAACAA
 CCGGAGCCCAACGAACAGCACTGGGATGTGGAAGGACTCGCCCAATCTTCCAAATCCATCAGATTCACT
 CCTGTCTCCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202837 representing NM_053019
 Red=Cloning site Green=Tags(s)

MSFPRGSQDRSVGNSSPWPLTTEGSNGSQEAARLGEEDSPLGDVNEELAKLEIAVLAVIFVAVLGN
 SVLLALHRTPRKTSRMHLFIRHLSLADLVAFFQVLPQLCWDITYRFRGPDWLCRVVVKHLQVFAMFASAY
 MLVVMADRYIAVCHPLKTLQPARRSRLMIATSWVLSFILSTPQYFIFSVIEIEVNNGTKTQDCWATFI
 QPWGTRAYVTWMTSGVVFVAPVVVLGTCYGFICYHIWRNIRGKTASSRHSKGDGSGEAVGPFHKGLLVTP
 CVSSVKSISRAKIRTVKMTFVIIVSAYILCWAPFFIVQMWSVWDENFIWTDSENPSITITALLASLNSCCN
 PWIYMFSGHLLQDCVQSFPCCHSMAQKFAKDDSDSMSRRQTSYNNRSPTNSTGMWKDSPKSSKSIRFI
 PVST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2291_b07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053019

ORF Size: 1272 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_053019.2](#), [NP_444178.2](#)

RefSeq Size: 1596 bp

RefSeq ORF: 1275 bp

Locus ID: 25107

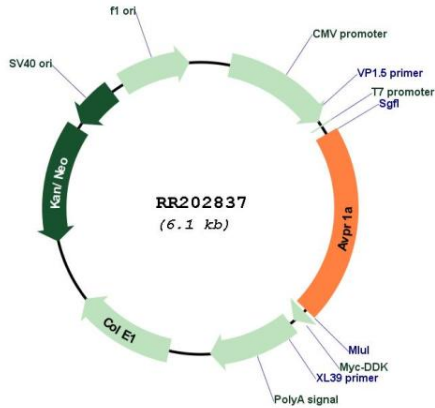
UniProt ID: [P30560](#)

Cytogenetics: 7q22

MW: 48.1 kDa

Gene Summary: This gene encodes a receptor for arginine vasopressin, a neurohypophyseal hormone involved in diuresis inhibition, smooth muscle contraction, liver glycogenolysis stimulation and regulation of adrenocorticotrophic hormone release from the pituitary. This receptor represents one of three G protein-coupled arginine vasopressin receptors which functions through a phosphatidylinositol-calcium second messenger system in vascular and hepatic tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RR202837