

Product datasheet for MR220919

Avpr2 (NM_019404) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Avpr2 (NM_019404) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Avpr2
Synonyms:	ADHR; DI; DI1; DIR; ND; ND1; V; V2R; VPV2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220919 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGGTGTCTACCACGTCTGCAGTGCCTGGGGCCCTTTCGTCCCCTAGCTCTCCAGCAACAGCA
GCCAGGAGGAGCTACTGGATGACCGAGACCCGCTGTTAGTCCGGGCTGAACTGGCCCTGCTATCTACAAT
TTTTGTGGCTGTGGCCTTGAGCAATGGCCTAGTGTGGGGCCCTAATACGACGGGGTGGCGTGGACGC
TGGGCACCCATGCACGTCTTCATCAGTCATTTGTGCCTAGCTGACCTGGCTGTGGCTCTGTTTCAAGTGC
TGCCCCAGCTGGCTTGGGATGCCACCGACCGCTTCCATGGCCCTGATGCCTTGTGTGGGCCGTC AAGTA
CCTGCAGATGGTGGGCATGTATGCCTTTCCTACATGATCCTGGCCATGACACTAGACCCGATCGCGCC
ATCTGCCGCCCTATGCTGGCATACCGCCATGGAGGTGGGGCTCGCTGGAACAGGCCAGTGCCTGGTGGCCT
GGGCCTTCTCACTCCTTCTCAGCCTGCCTCAGCTCTTCATCTTTGCTCAACGTGATGTGGGAAATGGCAG
TGGGGTATTTGATTGCTGGGCCGATTTGCAGAGCCATGGGGCCCTTCGTGCCTATGTACCTGGATCGCC
TTGATGGTGTGGTGGCACCTGCCCTAGGCATTGCTGCCTGCCAGGTTCTATCTCCGGAGATACATG
CCAGTCTGGTGGCAGGGCCATCTGAAAGGGCAGGGAGGCCCGCAGAGGACCCGGACAGGAAGTCCCAG
CGAGGGAGCCCATGTATCAGCAGCCATGGCCAAGACCGTGAGGATGACACTGGTATTGTATTGTCTAC
GTGCTGTGCTGGCACCCTTCTCCTTGTGCAGCTGTGGGCAGCGTGGGATCCAGAAGCTCCTCTGGAAA
GACCCCTTTGTGTGCTCATGCTGCTGGCTAGCCTTAACAGCTGTACCAACCCCTGGATCTATGCTTC
CTTCAGTAGCAGTGTCTCCTCGAGTTGCGTAGCCTGCTTTGCTGTGCTCAGAGGCACACCACACACAGC
CTGGTCTCAAGATGAGTCTGTGCCACAGCCAGCTCCTCTCTGATGAAGGATACACCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220919 protein sequence
Red=Cloning site Green=Tags(s)

MILVSTTSAVPGALSSPSSPSNSSQEELDDRDPLLVRAELALLSTIFVAVALSNGLVLGALIRRGRGR
WAPMHVFI SHLCLADLAVALFQVLPQLAWDATDRFHGPDALCRAVKYLQVMGYASSYMILAMTLDRHRA
ICRPMAYRHGGGARWNRPVLVAVAFSLLLSLPQLFIFAQRDVNGSGVFDWARFAEPWGLRAYVTWIA
LMVFVAPALGIAACQVLIFREIHASLVPGPSERAGRRRRGHRTGSPSEGAHVSAAMAKTVRMTLVIVIVY
VLCWAPFFLVQLWAAWDPEAPLERPPFVLLMLLASLNSCTNPWIYASFSSSVSSELRSLCCAQRHTTHS
LGPQDESCATASSSLMKDTPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019404

ORF Size: 1116 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_019404.2](#), [NP_062277.1](#)

RefSeq Size: 1812 bp

RefSeq ORF: 1116 bp

Locus ID: 12000

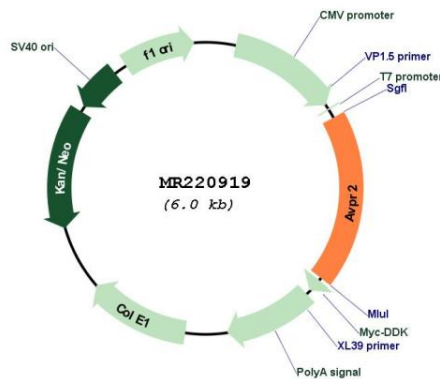
UniProt ID: [O88721](#)

Cytogenetics: X 37.46 cM

MW: 40.6 kDa

Gene Summary: This gene encodes a member of the G-protein coupled receptor 1 family and the vasopressin/oxytocin receptor subfamily. The encoded protein is an arginine vasopressin receptor which, when stimulated, activates the Gs protein/adenylyl cyclase signaling cascade and is involved in water and electrolyte homeostasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Product images:



Circular map for MR220919