

Product datasheet for **MR228204**

Avpr2 (NM_001276299) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Avpr2 (NM_001276299) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Avpr2
Synonyms: ADHR; DI; DI1; DIR; ND; ND1; V; V2R; VPV2R
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228204 representing NM_001276299
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCCTGGTGTCTACCAGTCTGGCATTGCTGCCTGCCAGTTCTTATCTTCCGGGAGATACATGCCA
GTCTGGTGCCAGGGCCATCTGAAAGGGCAGGGAGGCGCCGAGAGGACACCGGACAGGAAGTCCCAGCGA
GGGAGCCCATGTATCAGCAGCCATGGCCAAGACCGTGAGGATGACTGGTGATTGTGATTGTCTACGTG
CTGTGCTGGGCACCCCTTCTTCTTGTGCAGCTGTGGGCAGCGTGGGATCCAGAAGCTCCTCTGAAAGAC
CCCCCTTTGTGTTGCTCATGCTGCTGGCTAGCCTTAACAGCTGTACCAACCCCTGGATCTATGCTTCCTT
CAGTAGCAGTGTCTCCTCGGAGTTGCGTAGCCTGCTTTGCTGTGCTCAGAGGCACACCACACAGCCTG
GGTCTCAAGATGAGTCTGTGCCACAGCCAGCTCCTCTCTGATGAAGGATACACCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228204 representing NM_001276299
Red=Cloning site Green=Tags(s)
MILVSTTSGIAACQVLI FREI HASLVPGP SERAGRRRRGHRTGSPSEGAHVSAAMAKTVRMTLVIVIVYV
LCWAPFFLVQLWAAWDPEAPLERPPFVLLMLLASLNSCTNPWIYASFSSVSSELRSLLCCAQRHTTHSL
GPQDESCATASSSLMKDTPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

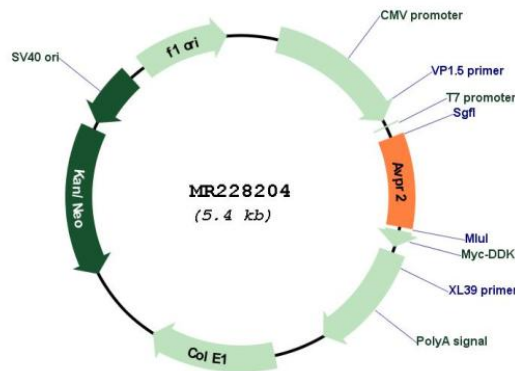


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001276299

ORF Size: 480 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:	<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_001276299.1, NP_001263228.1</u>
RefSeq Size:	1179 bp
RefSeq ORF:	483 bp
Locus ID:	12000
Cytogenetics:	X 37.46 cM
MW:	17.8 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]