

Product datasheet for **MG220919**

Avpr2 (NM_019404) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Avpr2 (NM_019404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Avpr2
Synonyms:	ADHR; DI; DI1; DIR; ND; ND1; V; V2R; VPV2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220919 representing NM_019404 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGGTGTCTACCACGTCTGCAGTGCCTGGGGCCCTTTCGTCCCCTAGCTCTCCAGCAACAGCA
GCCAGGAGGAGCTACTGGATGACCGAGACCCGCTGTTAGTCCGGGCTGAACTGGCCCTGCTATCTACAAT
TTTTGTGGCTGTGGCCTTGAGCAATGGCCTAGTGCTTGGGGCCCTAATACGACGGGGTGGCGTGGACGC
TGGGCACCATGCACGTCTTCATCAGTCATTTGTGCCTAGCTGACCTGGCTGTGGCTCTGTTTCAAGTGC
TGCCCCAGCTGGCTTGGGATGCCACCGACCGCTTCCATGGCCCTGATGCCTTGTGTGGGCCGTC AAGTA
CCTGCAGATGGTGGGCATGTATGCCTTTCCTACATGATCCTGGCCATGACACTAGACCGCCATCGCGCC
ATCTGCCGCCCTATGCTGGCATACCGCCATGGAGGTGGGGCTCGCTGGAACAGGCCAGTGCCTGGTGGCCT
GGGCCTTCTCACTCCTTCTCAGCCTGCCTCAGCTCTTCATCTTTGCTCAACGTGATGTGGGAAATGGCAG
TGGGGTATTTGATTGCTGGGCCGATTTGCAGAGCCATGGGGCCCTTCGTGCCTATGTACCTGGATCGCC
TTGATGGTGTGTGGCACCTGCCCTAGGCATTGCTGCCTGCCAGGTTCTATCTCCGGAGATACATG
CCAGTCTGGTGGCAGGGCCATCTGAAAGGGCAGGGAGGCCCGCAGAGGACACCGGACAGGAAGTCCCAG
CGAGGGAGCCCATGTATCAGCAGCCATGGCCAAGACCGTGAGGATGACACTGGTATTGTATTGTCTAC
GTGCTGTGCTGGCACCCTTCTCCTTGTGCAGCTGTGGGCAGCGTGGGATCCAGAAGCTCCTCTGGAAA
GACCCCTTTGTGTGCTCATGCTGCTGGCTAGCCTTAACAGCTGTACCAACCCCTGGATCTATGCTTC
CTTCAGTAGCAGTGTCTCCTCGAGTTGCGTAGCCTGCTTTGCTGTGCTCAGAGGCACACCACACACAGC
CTGGTCTCAAGATGAGTCTGTGCCACAGCCAGCTCCTCTCTGATGAAGGATACACCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220919 representing NM_019404
Red=Cloning site Green=Tags(s)

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MILVSTTSAVPGALSSPSSPSNSSQEELDDRDP LLVRAELALLSTIFVAVALSNGLVL GALIRRGRGR
WAPMHVFI SHLCLADLAVALFQVLPQLAWDATDRFHGPDALCRAVKYLQVMGYASSY MILAMTLDRHRA
ICRPMLAYRHGGGARWNR PVLVAWAF SLLL SLPQLFIFAQRDVGNGSGV FDCWARFAEPWGLRAYVTWIA
LMVFVAPALGIAACQV LIFREI HASLVPGP SERAGRRRRGHRTGSPSEGAHVSAAMAKTVRMTLVIVIVY
VLCWAPFFLVQLWAAWDPEAPLERPPFVLLMLLASLNSCTNPWIYASFSSSVSSELRSLLCCAQRHTTHS
LGPQDESCATASSSLMKDTPS
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TRTRPLE - GFP Tag - V

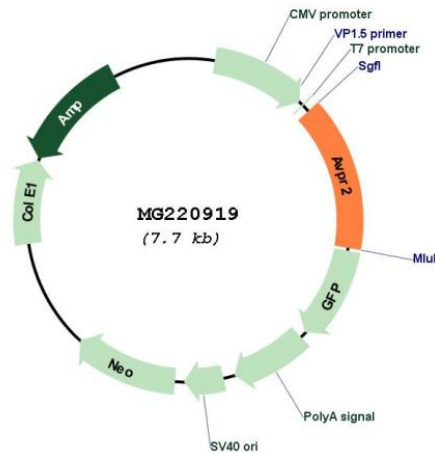
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_019404

ORF Size:	1113 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:	NM_019404.2 , NP_062277.1
RefSeq Size:	1811 bp
RefSeq ORF:	1116 bp
Locus ID:	12000
UniProt ID:	Q88721
Cytogenetics:	X 37.46 cM
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]