

## Product datasheet for MR201383

### Avp (NM\_009732) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Avp (NM\_009732) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Avp  
 Synonyms: Vp; Vsp  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR201383 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCGCCAGGATGCTCAACACTACGCTCTCCGCTTGTTCCTGAGCCTGCTGGCCTTCTCCTCCGCT  
 GCTACTCCAGAAGTCCCAAGAGGGCGCAAGAGGGCCATCTCTGACATGGAGCTGAGACAGTGTCTCC  
 CTGCGGCCCGGGCGCAAAGGACGCTGCTTCGGACCAAGCATCTGCTGCGCGGACGAGCTGGGCTGCTT  
 GTGGGCACCGCCGAGGCGCTGCGCTGCCAGGAGGAGAAGTACCTGCCCTCGCCCTGCCAGTCCGGCCAGA  
 AGCCCTGCGGGAGCGGGGCGCTGCGCCGCCGTGGGCATCTGCTGCAGCGACGAGAGCTGCGTGGCCGA  
 GCCGAGTGCCACGACGGTTTTTCCGCTCACCCGCGCTCGGGAGCCAAGCAACGCCACACAGCTGGAC  
 GGCCCTGCTCGGGCGCTGCTGCTAAGGCTGGTACAGCTGGCTGGGACACGGGAGTCCGTGGATTCTGCCA  
 AGCCCCGGGTCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201383 protein sequence  
 Red=Cloning site Green=Tags(s)

MLARMLNTTSLACFLSLLAFSSACYFQNCPRGGKRAISDMELRQCLPCGPGGKGRFCGPSICCADELGCF  
 VGTAEALRCQEENYLPSPCQSGQKPCGSGGRCAAVGICCSDESCVAEPECHDGFRLTRAREPSNATQLD  
 GPARALLLRVLQAGTRESVDSAPRVY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM\_009732

ORF Size: 507 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\\_009732.2](#)

RefSeq Size: 507 bp

RefSeq ORF: 507 bp

Locus ID: 11998

UniProt ID: [P35455](#)

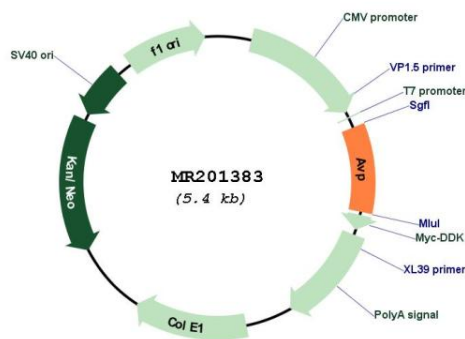
Cytogenetics: 2 63.24 cM

MW: 17.9 kDa

**Gene Summary:**

This gene encodes a member of the vasopressin/oxytocin family and preproprotein that is proteolytically processed to generate multiple protein products. These products include the neuropeptide hormone arginine vasopressin, and two other peptides, neurophysin 2 and copeptin. Arginine vasopressin binds to vasopressin receptors and functions as a vasopressor, to constrict blood vessels and increase blood pressure, and as an antidiuretic, to reduce the production of urine. Neurophysin 2 functions as a carrier protein in the transport of arginine vasopressin. This gene is present in a gene cluster with the related gene oxytocin on chromosome 2. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for MR201383