

## Product datasheet for **RG215919**

### Vasopressin V1b receptor (AVPR1B) (NM\_000707) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vasopressin V1b receptor (AVPR1B) (NM_000707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vasopressin V1b receptor
Synonyms:	AVPR3; V1bR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215919 representing NM_000707 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTCTGGCCTCTGTGGGATGCCAACCCACCCCTCGGGGCACCCTCTCTGCCCAATGCCACAA  
CACCCCTGGCTGGGCCGGGATGAGGAGCTGGCCAAGGTGGAGATCGGAGTCTGGCCACTGCTCTGGTGT  
GGCGACCGGGGCAACCTGGCTGTGCTGCTGACCTGGCCAGCTGGCCGCAAGCGCTCCCGCATGCAC  
CTGTTCTGCTGCACTTAGCCCTGACAGACCTGGCCGTGGCGCTCTCCAGGTGCTGCCACAGCTGCTGT  
GGGACATCACCTACCGCTTCCAGGGCCCGACCTCCTGTGCAGGGCCGTCAAGTACCTGCAGGTGCTCAG  
CATGTTTGCCTCCACCTACATGCTGCTGGCCATGACGCTGGACCGCTACCTGGCTGTCTGTACCCCTG  
CGCAGCCTCCAGCAGCCAGGCCAGTCCACCTACCTGCTCATCGCTGCTCCCTGGCTGCTGGCCGCCATCT  
TCAGCCTCCCTCAAGTCTTCATTTTTCCCTGCGGGAGGTGATCCAGGGCTCAGGGGTGCTGGACTGCTG  
GGCAGACTTCGGCTTCCCTTGGGGGCCACGGGCCACCTCACCTGGACCACCCCTGGCTATCTTCTGTTCTG  
CCGGTGACCATGCTCACGGCCTGCTACAGCCTCATCTGCCATGAGATCTGTAAAAACCTAAAAGTCAAGA  
CACAGGCTGGCGGTGGGAGGAGGGGCTGGAGGACTGGGACAGGCCCTCACCTTCCACCTTAGCTGC  
CACCCTCGGGGCTGCCATCTCGGGTCAGCAGCATCAACACCATCTCACGGCCAAGATCCGAACAGTG  
AAGATGACCTTTGTCATGCTGCTGGCCTACATCGCTTGTGGCTCCCTTCTTCAAGTGTCCAGATGTGGT  
CCGTGTGGGACAAGAATGCCCTGATGAAGATCCACCAATGTGGCTTTCACCATCTATGCTTTTGGG  
CAACCTCAACAGCTGCTGCAACCCTGGATCTACATGGGCTTCAACAGCCACCTGTTACCGCGGCCCTG  
CGTACCTTGCCTGCTGTGGGGTCCCCAGCCAGGATGCGCCGGCGGCTCTCCGACGGCAGCCTCTCGA  
GCCGCCACACCAGCTGCTGACCCGCTCCAGCTGCCCGGCCACCCCTCAGCCTCAGCCTCAGCCTAACCT  
CAGTGGGAGGCCAGGCTGAAGAGTCACCAAGGACTTGAGCTGCGAGATGGGAAAGGCACCGCTGAG  
ACCATCATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215919 representing NM\_000707  
Red=Cloning site Green=Tags(s)

MDSGPLWDANPTPRGTL SAPNATTPWLGRDEELAKVEIGVLATVVLVATGGNLAVLLTLGQLGRKSRMH  
 LFVLHLALTDLAVALFQVLPQLLDITYRFQGPDLLCRAVKYLQVLSMFASTYMLLAMTLDRYLAVCHPL  
 RSLQQPGQSTYLLIAAPWLLAAIFSLPQVFI FSLREVIQSGVLDWCADF GFWGPRAYL TWTTLAI FVL  
 PVTMLTACYSLICHEICKNLKVKVQAWRVGGGWRTWDRPSPSTLAATTRGLPSRVSSINTISRAKIRTV  
 KMTFVIVLAYIACWAPFFSVQMWSVWDKNAPDEEDSTNVAF TISM LLLGNLNSCCNPWIYMGFNHLLPRPL  
 RHLACCGGPQPRMRRLSDGSLSSRHHTLLTRSSCPATLSLSLTL SGRPRPEESPRDLELADGEGTAE  
 T IIF

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000707

**ORF Size:** 1272 bp

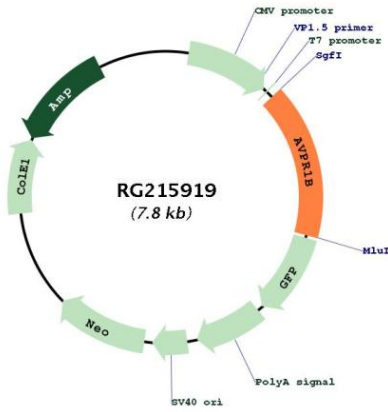
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000707.5</a>
<b>RefSeq Size:</b>	2273 bp
<b>RefSeq ORF:</b>	1275 bp
<b>Locus ID:</b>	553
<b>UniProt ID:</b>	<a href="#">P47901</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
<b>Gene Summary:</b>	<p>The protein encoded by this gene acts as receptor for arginine vasopressin. This receptor belongs to the subfamily of G-protein coupled receptors which includes AVPR1A, V2R and OXT receptors. Its activity is mediated by G proteins which stimulate a phosphatidylinositol-calcium second messenger system. The receptor is primarily located in the anterior pituitary, where it stimulates ACTH release. It is expressed at high levels in ACTH-secreting pituitary adenomas as well as in bronchial carcinoids responsible for the ectopic ACTH syndrome. A spliced antisense transcript of this gene has been reported but its function is not known. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG215919