

## Product datasheet for **RR202320**

### Agtr1b (NM\_031009) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agtr1b (NM_031009) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agtr1b
Synonyms:	Agtr1; AT1; AT1B; AT3; AT <sub>1</sub> R
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202320 representing NM_031009 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTTAACTCCTCTACTGAAGATGGAATTAAGAATCCAAGATGACTGCCCAAGGCTGGCAGGC  
ACAATTACATATTTGTCATGATCCCTACTCTACAGCATCATCTTTGGTGGGAATATTTGGAAACAG  
CTTGGTGGTGATTGTCATTTACTTTTACATGAAGCTAAAGACTGTGGCCAGTGTCTTTCTCTGAATCTT  
GCCCTGGCTGATTTATGCTTTTGTGACTTTGCCACTGTGGCAGTCTATACCGCTATGGAATACCGAT  
GGCCCTTCGGCAACCACCTATGTAAGATCGCTTCTGCCAGCGTCAGTTTCAATCTCTATGCCAGTGTGT  
TCTGCTCAGTGTCTCAGCATCGATCGTACCTGGCCATTGTCCACCCAATGAAGTCTCGCTCCGCCGC  
ACGATGCTGGTAGCCAAAGTCACCTGCATCATCTGGCTAATGGCTGGCTGGCCAGTTTGGCAGCCG  
TCATCTACCGAAACGTATATTTTCATCGAGAACCAATATCACAGTTTGGCTTTTCATTATGAATCTCA  
GAACTCAACACTCCCCATTGGACTGGGTCTAACAAAGAACATTCTGGGCTTCGTGTTCCCTTTCTTATC  
ATTCTACCAGCTATACTCTTATTTGGAAAGCCCTAAAGAAGGCTTATAAAATTCAGAAGAACACGCCAA  
GAAATGATGACATCTTTAGGATAATTATGGCGATTGTGCTTTTCTTCTTTTCTGGTTCCCCACCA  
AATATTCATTTTCTGGATGTGCTCATTACAGCTGGCATTATCCGTGACTGTGAAATTGCTGACATTGTG  
GACACCCTATGCCATCACCATCTGCATAGCTTATTTAACAATTGCCGAATCCTCTGTTTTATGGCT  
TTCTGGGGAAAAATTTAAAAAATATTTTCTCCAGCTTCTGAAATACATTCGCCAACGGCAAGTCACA  
CGCAGGCTTGTAACAAAAATGAGCACTTTTCTACCGCCCTCAGATAACATGAGTTCATCTGCCAAA  
AAGTCTGCATCTTTTTTGAAGTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202320 representing NM\_031009  
 Red=Cloning site Green=Tags(s)

MTLNSSTEDGIKRIQDDCPKAGRHNIFVMIPTLYSIIFFVVGIFGNSLVVIVIIYFYMKLKTVASVFLNL  
 ALADLCFLLLTPLWAVYTAMEYRWPFGNHLCKIASASVSFNLYASVFLLTCLSIDRYLAIVHPMKSLRR  
 TMLVAKVTCIIIWLMAGLASLPAVIYRNVYFIENTNITVCAFHYEQNSTLPIGLTKNILGFVFPFLI  
 ILTSYTLIWKALKKAYKIQKNTPRNDDIFRIIMAIVLVFFFSWVPHQIFFLDVLIIQLGIIRDCEIADIV  
 DTAMPITICIAFYNNCLNPLFYGFLGKKFKKYFLQLLKYIPPTAKSHAGLSTKMSTLSYRPSDNMSSSAK  
 KSASFFEVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

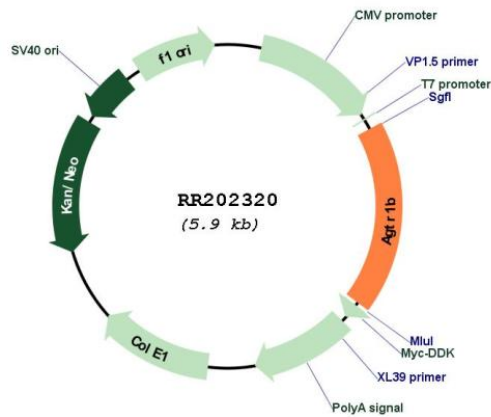
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_031009

<b>ORF Size:</b>	1077 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_031009.2</a> , <a href="#">NP_112271.2</a>
<b>RefSeq Size:</b>	2183 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	81638
<b>UniProt ID:</b>	<a href="#">P29089</a>
<b>Cytogenetics:</b>	2q24
<b>MW:</b>	40.9 kDa
<b>Gene Summary:</b>	G-protein coupled receptor for angiotensin II; has a role in blood pressure regulation, electrolyte balance and cardiac function [RGD, Feb 2006]