

OriGene Technologies, Inc.

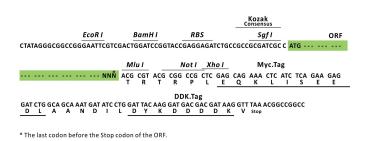
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC212171L1

Angiotensin II Type 1 Receptor (AGTR1) (NM_031850) Human Tagged Lenti ORF Clone

Product data:

| Product Type: | Expression Plasmids |
|------------------------------|--|
| Product Name: | Angiotensin II Type 1 Receptor (AGTR1) (NM_031850) Human Tagged Lenti ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Angiotensin II Type 1 Receptor |
| Synonyms: | AG2S; AGTR1B; AT1; AT1AR; AT1B; AT1BR; AT1R; AT2R1; HAT1R |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-Myc-DDK (PS100064) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC212171). |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | |
| | Cloning sites used for ORF Shuttling: |
| | Sgf I ORF Miu I GCG ATC GC C ATG // NNN ACG CGT |



ACCN: ORF Size: NM_031850 1077 bp



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Angiotensin II Type 1 Receptor (AGTR1) (NM_031850) Human Tagged Lenti ORF Clone – RC212171L1

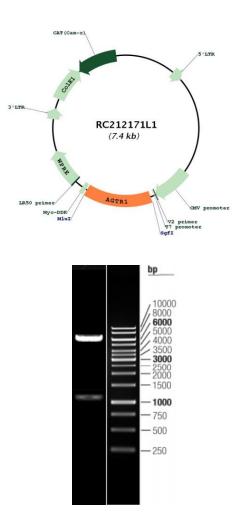
| OTI Disclaimer:Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E, coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.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 naturaly 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 varies depending on the nature of the gene.OTI Annotation:The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 100g of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).Reconstitution Method: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 add 100ul of sterile water to dissolve the DNA. 3. Close the tube and add 100ul of sterile water to dissolve the DNA. 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. The DNA is stable for at least one year from date of shipping when stored at -20°C.Refseq:MM 031850.1. NP 1140381Refseq Size:3024Donains:7m 1Protein Families:Progsbel Genome, GPCR, Transmembrane Syst | | |
|--|------------------------|--|
| 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 infoOTI 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 incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and incubate for 10 minutes at room temperature. 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:M. 031850.1.NP 114038.1RefSeq ORF:1080 bpLocus ID:1030556Cutogenetics:3/24Omains:0.74Protein Families:Druggabe Genome, GPCR, TransmembraneProtein Families:Calcium signaling pathway, Neuroactive ligand-receptor interaction, Renin-angiotensin system, Vascular smooth muscle contraction | OTI Disclaimer: | of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by |
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| MW: 40.9 kDa | Protein Pathways: | |
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Angiotensin II Type 1 Receptor (AGTR1) (NM_031850) Human Tagged Lenti ORF Clone – RC212171L1

Gene Summary:Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone
secretion. It is an important effector controlling blood pressure and volume in the
cardiovascular system. It acts through at least two types of receptors. This gene encodes the
type 1 receptor which is thought to mediate the major cardiovascular effects of angiotensin II.
This gene may play a role in the generation of reperfusion arrhythmias following restoration
of blood flow to ischemic or infarcted myocardium. It was previously thought that a related
gene, denoted as AGTR1B, existed; however, it is now believed that there is only one type 1
receptor gene in humans. Alternative splicing of this gene results in multiple transcript
variants. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RC212171L1

Double digestion of RC212171L1 using Sgfl and Mlul

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