

Product datasheet for **SC115571**

Angiotensin II Type 1 Receptor (AGTR1) (NM_009585) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensin II Type 1 Receptor (AGTR1) (NM_009585) Human Untagged Clone
Tag:	Tag Free
Symbol:	Angiotensin II Type 1 Receptor
Synonyms:	AG2S; AGTR1B; AT1; AT1AR; AT1B; AT1BR; AT1R; AT2R1; HAT1R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_009585, the custom clone sequence may differ by one or more nucleotides

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ATGATTCTCAACTCTTCTACTGAAGATGGTATTAAGAATCCAAGATGATTGTCCCAAAGCTGGAAGGC
ATAATTACATATTTGTCATGATTCTACTTTATACAGTATCATCTTTGGTGGGAATTTGGAAACAG
CTTGGTGGTGATAGTCATTTACTTTTATGAAGCTGAAGACTGTGGCCAGTGTCTTTCTTTGAATTTA
GCACTGGCTGACTTATGCTTTTACTGACTTTGCCACTATGGGCTGTCTACACAGCTATGGAATACCGCT
GGCCCTTTGGCAATTACCTATGTAAGATTGCTTCAGCCAGCGTCAGTTTCAACCTGTACGCTAGTGTGT
TCTACTCAGTGTCTCAGCATTGATCGATACCTGGCTATTGTTCCACCAATGAAGTCCCGCTTCGACGC
ACAATGCTTGTAGCCAAAGTCACCTGCATCATCTTTGGCTGCTGGCAGGCTTGCCAGTTTGCCAGCTA
TAATCCATCGAAATGATTTTTTTCATTGAGAACCAATATTACAGTTTGTCTTTCCATTATGAGTCCCA
AAATTCACCCCTCCCGATAGGGCTGGGCTGACCAAAAATATACTGGGTTTCTGTCTTTCTTTCTGATC
ATTCTTACAAGTTATACTCTTATTTGGAAGGCCCTAAAGAAGGCTTATGAAATTCAGAAGAACAACCA
GAAATGATGATATTTTAAAGATAATTAAGCAATTGTGCTTTTCTTTTCTTTTCTTTCTGGATTCCCA
AATATTCATTTTCTGGATGATTGATTCAACTAGGCATCATACGTGACTGTAGAATTGCAGATATTGTG
GACACGGCCATGCCTATCACCATTTGTATAGCTTATTTTAAACAATTGCCTGAATCCTCTTTTTATGGCT
TTCTGGGAAAAAATTTAAAGATATTTTCTCCAGCTTCTAAAATATATCCCCAAAAGCCAAATCCCA
CTCAAACCTTTCAACAAAATGAGCAGCTTTCTACCGCCCTCAGATAATGTAAGCTCATCCACCAAG
AAGCCTGCACCATGTTTTGAGGTTGAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_009585 unedited</p> <pre>GGCGCGGGGGNAAGNNGTATCCCTCCCCCCCCNGNGGGTGCGGGATTTGAAAAGTCA TTCATGTGAGGGCGGCCACGCAATTCGCACGAGGACAGCCAGGNACCCAGGCAGCAGCG AGTGACAGGACGTCTGGACCGGCGCGCCGCTAGCAGCTCTGCCGGGCCGCGGGTATC GATGGGGAGCGGCTGGAGCGGACCCAGCGAGTGAGGGCGCACAGCCGGGACGCCAGGGC GGCGCGGGGAGACCCGCTTTTTTTCAGCCGGCCCTCGGCGGGACGTGACGCAGCGCCCGG GGCGCGGGTGTATTTGATATAGTGTTCGCAACAAATTCGACCCAGGTGATCAAAATGATT CTCAACTCTTCTACTGAAGATGGTATTAAGAATCCAAGATGATTGTCCCAAAGCTGGA AGGCATAATTACATATTTGTCATGATTCCTACTTTATACAGTATCATCTTTGTGGTGGGA ATATTTGGAAACAGCTTGGTGGTGATAGTCATTTACTTTTATATGAAGCTGAAGACTGTG GCCAGTGTTTTTCTTTGAATTTAGCACTGGCTGACTTATGCTTTTTACTGACTTTGCCA CTATGGGCTGTCTACACAGCTATGGAATACCGCTGGCCCTTTGGCAATTACCTATGTAAG ATTGCTTTAGCCAGCGTCAGTTTCAACCTGTACGCTAGTGTGTTTCTACTCACGTGTCTC AGCATTGATCGATACCTGGCTATTGGTCACCCCAATGAGTCCCGCTTTTCGACGCACAAT GGCTTGTAGCCAAAGTCACCTGCATCATATTTGGCTGCTGGCAGGCTTGGGCCAGTTTG CCAGCTATTATCCATCGAAATGTATTTTTCATTGAGAACACCAATATACAGTTTGTGCTT TCCATTATGAGTCCCAAATTCACCCCTCCATAGGGCTGGGCCTGACCCAAAAATACGG GGTGTCTGTTCCCTTTTTTGACATCTTTACAAGTATACTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_009585 unedited</p> <pre>GGATTTATTTTTTTTTAAGTAAATTAACCTTTGGCCGAATTTAATCAATTAACAGCAGTT TAGAGATATAGATATACATATATATATATGTGTAGAATATATACTTTTTTTAAACAGGAA GGCATACTTTATGATATATAATCTTTTTACCACAACTATATACACTTCTCAGATATTAA ATCAAATAATATACTAGGAAGACACTACTACTTTGGGACCAGTGCAGCACCTTTACAAGT AGTTTAACTTTTATATGTGACTTTAGTAACACCATTATACAAATAAGCCATCTTACGGGC ATTGTTTTGGCAGTGAAACCTATAAGACACAGGTTGAATTTACAAAAAGATCTGCAAC TTGACGACTACTGCTTAGCATATCTTTGTACAAAATGTGCAGTACCAGGTGCAAGTGTAG CACAGTTGCTAATAGCTGAAAACCGGCACGAAAACCTTTACTGCCCTTTGGAACTGGACA GAACAATCTGGAACCTCATCTCCTGTTGCTCCTAACGATTTAATATATTCTAAATAC CTTTATGTGGAATAAAAAATAACAGGACAAAAGCAGGCTAGGGAGATTGCATTTCTGTC AGTAAAATTTCTCAAATCAACACATTCATCGAGTTTCTGACATTGTTCTTCGAGCAGCCG TCATCTGTCTAATGCANAATGTGGCTNTGCTTTGTCTTGTGTCANAAGGAAAGAAAAGCT NTTGTTCAGAGCTNTAGAAAAGTCGGNTCAGTCCACATAATGCATTTTCTCCTTCAATTC TNGAAAGTAGCTAATGCTCATTGGTAGTGAAGTGCTGCAGAGAAATGTTCTCTTGCTCCT TCTTCACANAATACTTATGGACAGGTTNCGACATGTCACCTCAAACATGTGCAGGC TTCTGGTGATGAGCTACATATCTGAGGGCG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_009585
Insert Size:	2260 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_009585.2](#), [NP_033611.1](#)

RefSeq Size: 2278 bp

RefSeq ORF: 1080 bp

Locus ID: 185

UniProt ID: [P30556](#)

Cytogenetics: 3q24

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction, Renin-angiotensin system, Vascular smooth muscle contraction

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]

Transcript Variant: This variant (2), also known as pC1 or hAT1R-A, lacks an exon in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (1).