

Product datasheet for **RG205162**

Angiotensin II Type 1 Receptor (AGTR1) (NM_009585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensin II Type 1 Receptor (AGTR1) (NM_009585) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiotensin II Type 1 Receptor
Synonyms:	AG2S; AGTR1B; AT1; AT1AR; AT1B; AT1BR; AT1R; AT2R1; HAT1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205162 representing NM_009585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCTCAACTCTTCTACTGAAGATGGTATTAAGAATCCAAGATGATTGTCCCAAAGCTGGAAGGC
ATAATTACATATTTGTCATGATTCTACTTTATACAGTATCATCTTTGTGGTGGGAATTTGGAAACAG
CTTGGTGGTGATAGTCATTTACTTTTATGAAGCTGAAGACTGTGGCCAGTGTCTTTTGAATTTA
GCACTGGCTGACTTATGCTTTTACTGACTTTGCCACTATGGGCTGTCTACACAGCTATGGAATACCGCT
GGCCCTTTGGCAATTACCTATGTAAGATTGCTTCAGCCAGCGTCAGTTTCAACCTGTACGCTAGTGTGT
TCTACTCAGTGTCTCAGCATTGATCGATACCTGGCTATTGTTACCCCAATGAAGTCCCGCTTCGACGC
ACAATGCTGTAGCCAAAGTCACCTGCATCATCTTTGGCTGCTGGCAGGCTTGGCCAGTTTGGCAGCTA
TAATCCATCGAAATGATTTTTTATTGAGAACCAATATTACAGTTTGTCTTTCCATTATGAGTCCCA
AAATTCACCCCTCCGATAGGGCTGGCCCTGACCAAAAATACTGGGTTTCTGTTTCTTTTCTGATC
ATTCTTACAAGTTACTCTTATTTGGAAGGCCGTAAGAAGGCTTATGAAATTCAGAAGAACAAACCA
GAAATGATGATATTTTAAAGATAATTATGGCAATTGTGCTTTTCTTTTCTTTTCTGGATTCCCCACCA
AATATTCATTTTCTGGATGATTGATTAAGTCAACTAGGCATCATACGTGACTGTAGAATTGCAGATATTGTG
GACACGGCCATGCCTATCACCATTGTATAGCTTATTTTAAACAATGCCTGAATCCTCTTTTATGGCT
TTCTGGGGAAAAAATTTAAAGATATTTTCTCCAGCTTCTAAAATATATTTCCCAAAAGCCAAATCCCA
CTCAAACCTTTTCAACAAAATGAGCAGCTTTCTACCGCCACTCAGATAATGTAAGCTCATCCACCAAG
AAGCTGCACCATGTTTTGAGTTGAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205162 representing NM_009585
 Red=Cloning site Green=Tags(s)

MILNSSTEDGIKRIQDDCPKAGRHNIFVMIPTLYSIIIFVVGIFGNSLVVIVIIYFYMKLKTVASVFLNL
 ALADLCFLLTLPLWAVYTAMEYRWPFGNYLCKIASASVSFNLYASVFLLTCLSIDRYLAIVHPMKSRLRR
 TMLVAKVTCIIWLLAGLASLPAIIHRNVFFIENTNITVCAFHYEQNSTLPIGLGLTKNILGFLFPFLI
 ILTSYTLIWKAVKKAYEIQKNKPRNDDIFKIIIMAIVLFFFVSWIPHQIFFLDVLQLGIIRDRIADIV
 DTAMPITICIAFYNNCLNPLFYGFLGKKFKRYFLQLLKYIPPKAKSHSNLSTKMSTLSYRHSNDVSSSTK
 KPAPCFEVE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009585

ORF Size: 1077 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_009585.3](#), [NP_033611.1](#)

RefSeq Size: 2278 bp

RefSeq ORF: 1080 bp

Locus ID: 185

UniProt ID: [P30556](#)

Cytogenetics: 3q24

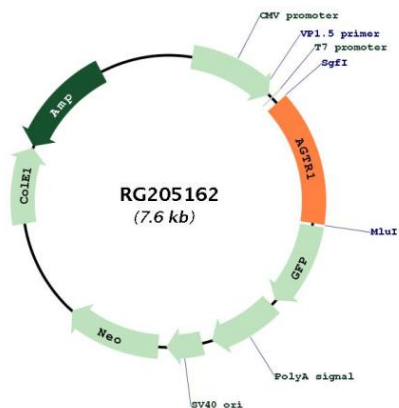
Domains: 7tm_1

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]

Product images:



Circular map for RG205162