

Product datasheet for **RG212008**

Angiotensin II Type 1 Receptor (AGTR1) (NM_000685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensin II Type 1 Receptor (AGTR1) (NM_000685) 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:	>RG212008 representing NM_000685 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCTCAACTCTTCTACTGAAGATGGTATTAAGAATCCAAGATGATTGTCCCAAAGCTGGAAGGC
ATAATTACATATTTGTCATGATTCTACTTTATACAGTATCATCTTTGGTGGGAATTTGGAAACAG
CTTGGTGGTGATAGTCATTTACTTTTATGAAGCTGAAGACTGTGGCCAGTGTCTTTTGAATTTA
GCACTGGCTGACTTATGCTTTTACTGACTTTGCCACTATGGGCTGTCTACACAGCTATGGAATACCGCT
GGCCCTTTGGCAATTACCTATGTAAGATTGCTTCAGCCAGCGTCAGTTTCAACCTGTACGCTAGTGTGT
TCTACTCAGTGTCTCAGCATTGATCGATACCTGGCTATTGTTACCCCAATGAAGTCCCGCTTCGACGC
ACAATGCTGTAGCCAAAGTCACCTGCATCATCTTTGGCTGCTGGCAGGCTTGGCCAGTTTGGCAGCTA
TAATCCATCGAAATGATTTTTTATTGAGAACCAATATTACAGTTTGTCTTTCCATTATGAGTCCCA
AAATTCACCCCTCCGATAGGGCTGGGCTGACCAAAAATACTGGGTTTCTGTTTCTTTTCTGATC
ATTCTTACAAGTTATACTCTTATTTGGAAGGCCCTAAAGAAGGCTTATGAAATTCAGAAGAACAAACCA
GAAATGATGATATTTTAAAGATAATTATGGCAATTGTGCTTTTCTTTTCTTTTCTGGATTCCCCACCA
AATATTCATTTTCTGGATGATTGATTAAGTCACTAGGCATCATACGTGACTGTAGAATTGCAGATATTGTG
GACACGGCCATGCCTATCACCATTGTATAGCTTATTTTAAACAATGCCTGAATCTCTTTTATGGCT
TTCTGGGGAAAAAATTTAAAGATATTTTCTCCAGCTTCTAAAATATATTTCCCAAAAGCCAAATCCCA
CTCAAACCTTTTCAACAAAATGAGCAGCTTTCTACCGCCCTCAGATAATGTAAGCTCATCCACCAAG
AAGCTGCACCATGTTTTGAGTTGAG

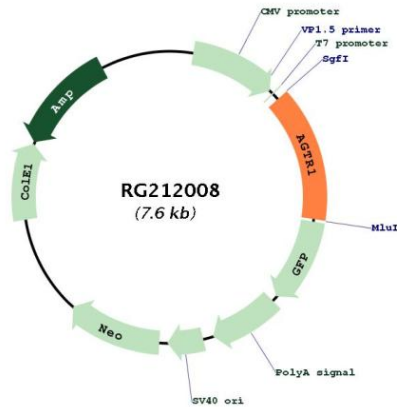
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<ol style="list-style-type: none">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:	<u>NM_000685.3</u> , <u>NP_000676.1</u>
RefSeq Size:	2347 bp
RefSeq ORF:	1080 bp
Locus ID:	185
UniProt ID:	<u>P30556</u>
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 RG212008