

## Product datasheet for **RG203768**

### Angiotensinogen (AGT) (NM\_000029) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensinogen (AGT) (NM_000029) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiotensinogen
Synonyms:	ANHU; hFLT1; SERPINA8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG203768 representing NM\_000029  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATCGGGAAGCGAGCACCCAGTCTGAGATGGCTCTGCCGGTGTGAGCCTGAGGGCCACCATCCTCTGCC  
 TCCTGGCCTGGGCTGGCCTGGCTGCAGGTGACCGGGTGTACATACACCCCTTCCACCTCGTCATCCACAA  
 TGAGAGTACCTGTGAGCAGCTGGCAAAGGCCAATGCCGGGAAGCCCAAAGACCCACCTTCATACCTGCT  
 CCAATTCAGGCCAAGACATCCCCTGTGGATGAAAAGGCCCTACAGGACCAGCTGGTGTAGTCTGCTGCAA  
 AACTTGACACCGAAGACAAGTTGAGGGCCGAATGGTCGGGATGCTGGCCAACTTCTGGGCTTCCGTAT  
 ATATGGCATGCACAGTGAAGTATGGGGCGTGGTCCATGGGGCCACCGTCTCTCCCCAACGGCTGTCTTT  
 GGCACCTGGCCTCTCTATCTGGGAGCCTGGACCACAGCTGACAGGCTACAGGCAATCCTGGGTG  
 TTCCTTGAAGGACAAGAACTGCACCTCCCGGTGGATGCGCACAAGTCTGTCTGCCCTGCAGGCTGT  
 ACAGGGCTGCTAGTGGCCAGGGCAGGGCTGATAGCCAGGCCAGCTGTGCTGTCCACGGTGGTGGGC  
 GTGTTACAGCCCAGGCTGCACCTGAAGCAGCCGTTTGTGCAGGGCCTGGCTCTATACCCCTGTGG  
 TCCTCCCACGCTCTCTGGACTTACAGAAGTGGATGTTGCTGCTGAGAAGATTGACAGGTTTCATGCAGGC  
 TGTGACAGGATGGAAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGGACAGCACCCCTGGCTTTCAACACC  
 TACGTCCACTTCCAAGGGAAGATGAAGGGCTTCTCCCTGCTGGCCGAGCCCCAGGAGTTCTGGGTGGACA  
 ACAGCACCTCAGTGTCTGTTCCCATGCTCTGGCATGGGCACCTTCCAGCACTGGAGTGACATCCAGGA  
 CAATTCTCGGTACTCAAGTGTCTTCACTGAGAGCCCTGCCTGCTGCTGATCCAGCCTCACTATGCC  
 TCTGACCTGGACAAGGTGGAGGGTCTCACTTCCAGCAAACTCCCTCACTGGATGAAGAACTGTCTC  
 CCCGGACCATCCACCTGACCATGCCCAACTGGTGTGCAAGGATCTTATGACCTGCAGGACCTGTCTC  
 CCAGGCTGAGCTGCCCGCATTCTGCACACCGAGCTGAACCTGCAAAAATTGAGCAATGACCGCATCAGG  
 GTGGGGAGGTGCTGAACAGCATTTTTTTTGGAGCTTGAAGCGGATGAGAGAGAGCCACAGAGTCTACCC  
 AACAGTTAAACAAGCCTGAGGTCTTGGAGGTGACCCTGAACCGCCATTCTGTTTGTGTGTATGATCA  
 AAGCGCCACTGCCTGCCTTCTGGGCCGCGTGGCCAACCCGCTGAGCACAGCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203768 representing NM\_000029  
 Red=Cloning site Green=Tags(s)

MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPA  
 PIQAKTSPVDEKALQDQLVLAAKLDTEKLRAMVGMFLANFLGFRIYGMHSELWGVVHGATVLSPTAVF  
 GTLASLYL GALDHTADRLQAILGVPWKDKNCTSR LDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVG  
 VFTAPGLHLKQPFVQGLALYTPVVLPRSLDFTELDVAAEKIDRFMQAVTGWKTGCSLTGASVDSTLAFNT  
 YVHFQGKMKGFSLLAEPQEFWVDNSTSVSVPMLSGMGTFOHWSDIQDNF SVTQVSFTESACLLL IQPHYA  
 SDLDKVEGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDLLAQAEIPAILHTELNLQKLSNDRIR  
 VGEVLNSIFFELEADEREPTSTQQLNKPEVLEVTLNRPFLFAVYDQSATALHFLGRVANPLSTA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000029

**ORF Size:** 1455 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\\_000029.2](#), [NP\\_000020.1](#)

**RefSeq Size:** 2192 bp

**RefSeq ORF:** 1458 bp

**Locus ID:** 183

**UniProt ID:** [P01019](#)

**Cytogenetics:** 1q42.2

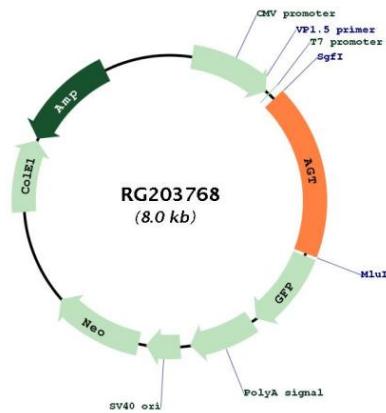
**Domains:** SERPIN

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Renin-angiotensin system

**Gene Summary:** The protein encoded by this gene, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure, body fluid and electrolyte homeostasis, and in the pathogenesis of essential hypertension and preeclampsia. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in this gene have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease. [provided by RefSeq, Nov 2019]

**Product images:**



Circular map for RG203768