

Product datasheet for **SC117553**

Angiotensinogen (AGT) (NM_000029) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensinogen (AGT) (NM_000029) Human Untagged Clone
Tag:	Tag Free
Symbol:	Angiotensinogen
Synonyms:	ANHU; hFLT1; SERPINA8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117553 sequence for NM_000029 edited (data generated by NextGen Sequencing)

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ATGCGGAAGCGAGCACCCAGTCTGAGATGGCTCCTGCCGGTGTGAGCCTGAGGGCCACC
ATCCTCTGCCTCCTGGCCTGGCCTGGCCTGGCTGCAGGTGACCGGGTGTACATACACCCC
TTCCACCTCGTCATCCACAATGAGAGTACCTGTGAGCAGCTGGCAAAGGCCAATGCCGGG
AAGCCAAAGACCCACCTTCATACCTGCTCCAATTCAGGCCAAGACATCCCCTGTGGAT
GAAAAGGCCCTACAGGACCAGCTGGTGTAGTCGCTGCAAAACTTGACACCCGAAGACAAG
TTGAGGGCCGCAATGGTCGGGATGCTGGCCAACCTCTTGGGCTTCCGTATATATGGCATG
CACAGTGAGCTATGGGGCGTGGTCCATGGGGCCACCGTCTCTCCCAACGGCTGTCTTT
GGCACCTGGCCTCTCTCTATCTGGGAGCCTTGGACCACACAGCTGACAGGCTACAGGCA
ATCCTGGGTGTTCTTGAAGGACAAGAACTGCACCTCCCGGCTGGATGCGCACAAGGTC
CTGTCTGCCCTGCAGGCTGTACAGGGCCTGCTAGTGGCCAGGGCAGGGCTGATAGCCAG
GCCAGCTGCTGTGTCCACGGTGGTGGGCGTGTTCACAGCCCCAGGCCTGCACCTGAAG
CAGCCGTTTGTGCAGGGCCTGGCTCTATACCCCTGTGGTCTCCACGCTCTCTGGAC
TTCACAGAAGTGGATGTTGCTGTGAGAAGATTGACAGGTTTCATGCAGGCTGTGACAGGA
TGAAGACTGGCTGCTCCCTGATGGGAGCCAGTGTGGACAGCACCTGGCTTTAACACC
TACGTCCACTTCCAAGGGAAGATGAAGGGCTTCTCCCTGTGGCCGAGCCCCAGGAGTTC
TGGGTGGACAACAGCACCTCAGTGTCTGTTCCCATGCTCTCTGGCATGGGCACCTTCCAG
CACTGGAGTGACATCCAGGACAACCTTCTCGGTGACTCAAGTGCCCTTCACTGAGAGCGCC
TGCTGTGTGATCCAGCCTCACTATGCCTCTGACCTGGACAAGGTGGAGGGTCTCACT
TTCCAGCAAACTCCCTCACTGGATGAAGAACTGTCTCCCGGACCATCCACCTGACC
ATGCCCCAATTTGCTGCAAGGATCTTATGACCTGCAGGACCTGCTCGCCAGGCTGAG
GTGGGGGAGGTGCTGAACAGCATTTTTTTTGAGCTTGAAGCGGATGAGAGAGAGCCACA
GAGTCTACCCAACAGCTTAAACAAGCCTGAGGTCTTGGAGGTGACCCTGAACCGCCATTC
CTGTTTGTGTATGATCAAAGCGCCACTGCCCTGCACTTCTGGGCCGCTGGCCAAC
CCGCTGAGCACAGCATGA
    
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Clone variation with respect to NM_000029.3
1116 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000029 unedited
GTGTGCACTATTTTGTNAATACGACNCACTTATAGGGCGGCCGCGATTCCGGCAGGAGTT
GTTCTGGTACTACAGCAGAAGGGTATGCGGAAGCGAGCACCCAGTCTGAGATGGCTCC
TGCCGGTGTGAGCCTGAGGGCCACCATCCTCTGCCTCCTGGCCTGGGCTGGCCTGGCTGC
AGGTGACCGGGTGTACATACACCCCTTCCACCTCGTCATCCACAATGAGAGTACCTGTGA
GCAGCTGGCAAAGGCCAATGCCGGGAAGCCAAAGACCCACCTTCATACCTGCTCCAAT
TCAGGCCAAGACATCCCCTGTGGATGAAAAGGCCCTACAGGACCAGCTGGTGTAGTCGC
TGCAAACTTGACACCGAAGACAAGTTGAGGGCCGCAATGGTCGGGATGCTGGCCAACTT
CTTGGGCTTCCGTATATATGGCATGCACAGTGAGCTATGGGGCGTGGTCCATGGGGCCAC
CGTTCTCTCCCAACGGCTGTCTTTGGCACCTGGCCTCTCTCTATCTGGGAGCCTTGGGA
CCACACAGCTGACAGGCTACAGGCAATCCTGGGTGTTCCCTTGAAGGACAAGAACTGCAC
CTCCCGGCTGGATGCGCACAAGGCCCTGTCTGCCCTGCAGGCTGTACAGGGCCCTGCT
AATGGCCAAAGGCAGGGTGTATAGCCAGGCCAGCTGCTGCTGTCCACGTGGTGGGCGTG
TTCACACTCCCAGCCTGCACTCGAACCACCGTTTGTGCAGGCCCTGCTTTCTATAACCC
TGAGGTCTCCACCTCTCTGGACTTCACAAAATGGATGTGCCGCTGACAAAAGGCAGGT
TCATGCCCCCTGTGCACCGAAGGAGACCGGCTGTTCCCTGATGGGACCACCGTGAACA
CACACCTGCCTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000029 unedited GGCAACTTTCAGGGCCAGGNATAGCACTGGGGAGGGTACAGGGCAGCCACCCGGGAT CTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTT TTTGTGGCAAGACGTTTATTACTAACACAAGGGAGAAATAACCAGCTATTGTTCCGCATT CAAACAGAAATTCAGGTGCTTGCATCTTTCACGTATTGGTCAAAAATCACAAGCATCTGT GGAAAAAATAAGGTATTACAGACACTACACGGAGGTCATGTTCTTACATTCAAGACACT AAATACAAACCGAAGGCAATGCAAAAATGTATACTTTAATTTTAAAACCCAATTTTTGTT CTCAACTTGAAAAGGGAACACTTTTTTGTTCACAAACAAGCTGGTCGGTTGGAATTCTT TTTGGAACAGTAGTCCCGCCTAAACACTGGTCTTGCCTCCCCACCCCAATTCTCTAAA ATAAACCCAGCAAACCTGGGAGGTGCATTTGTGCCGCTGCAGGCTTCTACTGCTCACTCCA TGCAGCACACTTAGACCAAGGAGAAACGGCTGCTTCCAGCTCAAAGTCGACTATTA GAAAAGGTGGGAGACTGGGGGTGACCATCTGATTGTCCCGGGGGTGGTATCTGGCTG CTGGCCTTTGCCTCAAAGCCAAGGGCAAAGCCTTGCAGCAACTGGGTTTTGGGGGGCC TGGCTCATGCTGGCTAAAGGGGGTTGGCCCCCGCCACAAAAGCAGGGGCAATGGGGCT TTTTAATCTCCACACAGAAAGGGGGGGTTGGAGGCCCCCCCAACCTAGGCTGTAAAA GCCGGGGGGAAACCTTGGGGGGCTTATAACGGTAAGCCAAAAAAGGCGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000029
Insert Size:	2050 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:	<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:	NM_000029.2
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]