

## Product datasheet for **SC331381**

### Angiotensin 1 (ANGPT1) (NM\_001199859) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Angiotensin 1 (ANGPT1) (NM\_001199859) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Angiotensin 1  
**Synonyms:** AGP1; AGPT; ANG1; HAE5  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331381 representing NM\_001199859.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACAGTTTTTCCTTTCTTTGCTTTCTCGTGCCATTCTGACTCACATAGGGTGCAGCAATCAGCGC
CGAAGTCCAGAAAACAGTGGGAGAAGATATAACCGGATTCAACATGGGCAATGTGCCTACACTTTTCATT
CTTCCAGAACACGATGGCAACTGTCGTGAGAGTACGACAGACCAGTACAACACAAACGCTCTGCAGAGA
GATGCTCCACACGTGGAACCGGATTTCTTTCCAGAACTTCAACATCTGGAACATGTGATGGAAAAT
TATACTCAGTGGCTGCAAAAACCTTGAGAATTACATTGTGGAAAACATGAAGTCGGAGATGGCCAGATA
CAGCAGAAATGCAGTTCAGAACCACACGGCTACCATGCTGGAGATAGGAACCAGCCTCCTCTCAGACT
GCAGAGCAGACCAGAAAGCTGACAGATGTTGAGACCCAGGTAATAAATCAAATCTCGACTTGAGATA
CAGCTGCTGGAGAATTCATTATCCACCTACAAGCTAGAGAAGCAACTTCTTCAACAGACAATGAAATC
TTGAAGATCCATGAAAAAACAGTTTATTAGAACATAAAATCTTAGAAATGGAAGGAAAAACAAGGAA
GAGTTGGACACCTTAAAGGAAGAGAAAGAGAACCTTCAAGGCTTGGTTACTCGTCAAACATATAATC
CAGGAGCTGGAAGCAATTAACAGAGCTACCACCAACAACAGTGTCTTCAGAAGCAGCAACTGGAG
CTGATGGACACAGTCCACAACCTTGTCAATCTTGCACATAAAGAAGTTTTACTAAAGGGAGGAAAAAGA
GAGGAAGAGAAACATTTAGAGACTGTGCAGATGTATATCAAGCTGGTTTTAATAAAAGTGAATCTAC
ACTATTTATATTAATAATATGCCAGAACCCAAAAGGTGTTTTGCAATATGGATGTCAATGGGGAGGT
TGGACTGTAATACAACATCGTGAAGATGGAAGTCTAGATTTCCAAGAGGCTGGAAGGAATATAAATG
GGTTTTGAAATCCCTCCGGTGAATATTGGCTGGGGAATGAGTTTATTTTTGCCATTACCAGTCAGAGG
CAGTACATGCTAAGAATTGAGTTAATGGACTGGGAAGGGAACCGAGCCTATTCACAGTATGACAGATTC
CACATAGGAAATGAAAAGCAAACTATAGGTTGTATTTAAAAGGTCACACTGGGACAGCAGGAAAACAG
AGCAGCCTGATCTTACACGGTGTGATTTACGACTAAAGATGCTGATAATGACAACGTATGTGCAAA
TGTGCCCTCATGTTAACAGGAGGATGGTGGTTTGATGCTTGTGGCCCTCCAATCTAAATGGAATGTTT
TATACTGCGGGACAAAACCATGAAAACCTGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTAC
TCCTTACGTTCCACAACATGATGATTCGACCTTAGATTTTTGA
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001199859  
**Insert Size:** 1494 bp



<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001199859.1</a></u>
<b>RefSeq Size:</b>	4335 bp
<b>RefSeq ORF:</b>	1494 bp
<b>Locus ID:</b>	284
<b>UniProt ID:</b>	<u><a href="#">Q15389</a></u>
<b>Cytogenetics:</b>	8q23.1
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>MW:</b>	57.5 kDa
<b>Gene Summary:</b>	<p>This gene encodes a secreted glycoprotein that belongs to the angiotensin family. Members of this family play important roles in vascular development and angiogenesis. All angiotensins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Mutations in this gene are associated with hereditary angioedema. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1, which results in an isoform (2) that is one amino acid shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>