

## Product datasheet for **SC111587**

### Angiopoietin 1 (ANGPT1) (NM\_001146) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 1 (ANGPT1) (NM_001146) Human Untagged Clone
Tag:	Tag Free
Symbol:	Angiopoietin 1
Synonyms:	AGP1; AGPT; ANG1; HAE5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC111587 sequence for NM\_001146 edited (data generated by NextGen Sequencing)

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ATGACAGTTTTTCCTTTGCTTTCTCGCTGCCATTCTGACTCACATAGGGTGCAGC
AATCAGCGCCGAAGTCCAGAAAACAGTGGGAGAAGATATAACCGGATTCAACATGGGCAA
TGTGCCTACACTTTCATTCTCCAGAACACGATGGCAACTGTCGTGAGAGTACGACAGAC
CAGTACAACACAAACGCTCTGCAGAGAGATGCTCCACACGTGGAACCGGATTTCTCTTCC
CAGAAAACCTTCAACATCTGGAACATGTGATGGAAAATTACTCAGTGGCTGCAAAAACTT
GAGAAATACATTGTGAAAAACATGAAGTCGGAGATGGCCAGATACAGCAGAATGCAGTT
CAGAACCACACGGCTACCATGCTGGAGATAGGAACCAGCCTCCTCTCAGACTGCAGAG
CAGACCAGAAAAGCTGACAGATGTTGAGACCCAGGTAATAAATAAATACTCGACTTGAG
ATACAGCTGCTGGAGAATTCATTATCCACCTACAAGCTAGAGAAGCAACTTCTTCAACAG
ACAAATGAAATCTTGAAGATCCATGAAAAAACAGTTTATTAGAACATAAAATCTTAGAA
ATGGAAGGAAAACACAAGGAAGAGTTGGACACCTTAAAGGAAGAGAAAGAGAACCTTCAA
GGCTTGGTTACTCGTCAACATATATAATCCAGGAGCTGGAAAAGCAATTAACAGAGCT
ACCACCAACAACAGTGTCTTCCAGAACGCAACTGGAGCTGATGGACACAGTCCACAAC
CTTGTCAATCTTTGCACTAAAGAAGGTGTTTTACTAAAGGGAGGAAAAAGAGAGGAAGAG
AAACCATTAGAGACTGTGCAGATGTATATCAAGCTGGTTTTAATAAAAGTGAATCTAC
ACTATTTATTAATAATATGCCAGAACCCAAAAAGGTGTTTTGCAATATGGATGTCAAT
GGGGGAGGTTGGACTGTAATACAACATCGTGAAGATGGAAGTCTAGATTTCCAAAGAGGC
TGAAGGAATATAAAATGGGTTTTGAAATCCCTCCGGTGAATATTGGCTGGGAATGAG
TTTATTTTGGCATTACCAGTCAGAGGCAGTACATGCTAAGAATTGAGTTAATGGACTGG
GAAGGGAACCGAGCCTATTCACAGTATGACAGATTCCACATAGGAAATGAAAAGCAAAAC
TATAGGTTGTATTTAAAGGTCACACTGGGACAGCAGGAAAACAGAGCAGCCTGATCTTA
CAGGGTCTGATTTACAGCACTAAAGATGCTGATAATGACAACTGTATGTGCAAAATGTGCC
CTCATGTTAACAGGAGGATGGTGGTTTGTGCTTGTGGCCCTCAATCTAAATGGAATG
TTCTATACTGCGGGACAAAACATGAAAAACTGAATGGGATAAAGTGGCACTACTTCAA
GGGCCAGTTACTCCTTACGTTCCACAACATATGATGATTCGACCTTTAGATTTTTGA
    
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Clone variation with respect to NM\_001146.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001146 unedited

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NGGGTGCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGAATATG
TACACGCAGCTGACTCAGGCAGGCTCCATGCTGAACGGTCACACAGAGAGGAAACAATAA
ATCTCAGTACTATGCAATAAATATCTCAAGTTTTAACGAAGAAAAACATCATTGCAGTG
AAATAAAAAATTTTAAAAATTTAGAACAAAGCTAACAAATGGCTAGTTTTCTATGATTCT
TCTTCAAACGCTTTCTTTGAGGGGAAAGAGTCAAAACAAACAAGCAGTTTTACCTGAAAT
AAAGAACTAGTTTTAGAGGTGAGAAGAAAGGCAAGTTTTGCGAGAGGCACGGAAGGAG
TGTGCTGGCAGTACAATGACAGTTTTCTTTCTTTGCTTTCTCGCTGCCATTCTGACT
CACATAGGGTGCAGCAATCAGCGCCGAAGTCCAGAAAACAGTGGGAGAAGATATAACCGG
ATTCAACATGGGCAATGTGCCTACACTTTCATTCTTCCAGAACACGATGGCAACTGTCGT
GAGAGTACGACAGACCAGTACAACACAAACGCTCTGCAGAGAGATGCTCCACACGTGGAA
CCGGATTTCTTCCCAGAACTTCAACATCTGGAACATGTGATGGAAAATTATACTCAG
TGGCTGCAAAAACCTTGAATACATTGTGAAAAACATGAAGTCGGAGATGGCCAGATA
CAGCAGAATGCAGTTCAGAACACACGGCTACCATGCTGGAGATAGGAACCAGCCTNCTC
TCTCAGACTGCAGAGCAGACCANAAGCTGACAGATGTTGAGACCAAGTACTAAATCA
ACTNCTGACTTGAGATACAGCTGCTGGAGGATTCATTATCCACCTACAGCTAGAAAGC
AATTTCTTACAGACAATGAAATCA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001146 unedited ATATCTNTGNACC CGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTGGAATATGAGTTTGGAAATAGTATTCTTTATCCAAAACTGGTTTAAGAAAGTGTCT GTAGGAACACAAAAGGACAAAATACTCATTCTTTCCCTTAAATGAAAACAGTTGAGAA GTTTTTAGAAGGAGAGGCTTACCTGCTATGAAGAAGCCACCAAGAATAGAAAAATGGTAT AATACCTGCAAATACACTTGTAAGGCAAAAAGGGTAGAATACAGACACCTAAATATAA AAAAGACTTGATGGTAACTTTAAAAAGTATTTTTCTTAAACAATGTGAATAGCTTTATTT TCTCAAATGGAGGAAACCATTAAGGCATAGTGGATCAAGTCACCAAGTTTGAAACTGGTA TTGCTACCTTGCCAACAACCTGTCTCTTTATGAGAGGAGGCCAGTAGCTTTATTCAAT TTTCTCATCCCATAGTGACTCATGTTTTAATAAAAAGTGTACTGTGCATAACCTTGAC ACTTACAGGCAGAGAAGACTTCTTGATAAAATAATGCAGTAACTCAAGCACCCCAAAAA TTCACTTAAAATACATTATCCCATAGGAATATTTCCATTGAGTTATTTATGGCAACTAGC AGTCAGAAATTTCTTAGTCAGGTGACTATGATTAATTTTTCTTTTGTAAATATTTCCCTTAC TATAATAGTTTTGCCAATTTTTCTCCCCTGAAATAATTTTTAAAAATAAAAATTGCCTAA AGGAATGGACTGAAGGAGAAATTATGAAGAATGATGTTTTTCATTAAGGAATATAGTTAG ATTTCTTTGAGCATTTGTGGTTTTTGCATCAATTAAGACAATGGTTGCCTATTTCCAG ATAATTAGCTATTAAGGTTTTTGC AAATAATAACATGCTATGTACAATGATATTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001146
<b>Insert Size:</b>	4500 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_001146.3</a></u> , <u><a href="#">NP_001137.2</a></u>
<b>RefSeq Size:</b>	4338 bp
<b>RefSeq ORF:</b>	1497 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

**Gene Summary:**

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.