

## Product datasheet for **SC318881**

### Angiopoietin 2 (ANGPT2) (NM\_001118888) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 2 (ANGPT2) (NM_001118888) Human Untagged Clone
Tag:	Tag Free
Symbol:	Angiopoietin 2
Synonyms:	AGPT2; ANG2; LMPHM10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001118888 edited

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ATGTGGCAGATTGTTTTCTTTACTCTGAGCTGTGATCTTGTCTTGCCGCGAGCCTATAAC
AACTTTTCGGAAGAGCATGGACAGCATAGGAAAGAAGCAATATCAGGTCCAGCATGGGTCC
TGAGCTACACTTTCTCTGCCAGAGATGGACAACCTGCCGCTCTTCTCCAGCCCCCTAC
GTGTCCAATGCTGTGCAGAGGGACGCGCGCTCGAATACGATGACTCGGTGCAGAGGCTG
CAAGTGCTGGAGAACATCATGAAAAACAACACTCAGTGGCTAATGAAGGTATTAATCAG
ACCACGAGACTTGAACCTCAGCTCTTGGAACACTCCCTCTCGACAAACAAATTGGAAAAA
CAGATTTTGGACCAGACCAGTGAATAAACAATTGCAAGATAAGAAGAGTTTCCTAGAA
AAGAAGGTGCTAGCTATGGAAGACAAGCACATCATCAACTACAGTCAATAAAGAAGAG
AAAGATCAGCTACAGGTGTTAGTATCCAAGCAAAATTCATCATTGAAGAACTAGAAAAA
AAAATAGTGACTGCCACGGTGAATAATTAGTTCTTCAGAAGCAGCAACATGATCTCATG
GAGACAGTTAATAACTTACTGACTATGATGTCCACATCAAACCTAAGGACCCCACTGTT
GCTAAAGAAGAACAAATCAGCTTCAGAGACTGTGCTGAAGTATTCAAATCAGGACACACC
ACGAATGGCATCTACACGTTAATTCCTAATTCTACAGAAGAGATCAAGGCCTACTGT
GACATGGAAGCTGGAGGAGGCGGGTGGACAATTATTCAGCGACGTGAGGATGGCAGCGTT
GATTTTCAGAGGACTTGGAAAGAATATAAAGTGGGATTTGGTAACCCCTTCAGGAGAATAT
TGGCTGGGAAATGAGTTTGTTCGCAACTGACTAATCAGCAACGCTATGTGCTTAAATA
CACCTTAAAGACTGGGAAGGGAATGAGGCTTACTCATTGTATGAACATTTCTATCTCTCA
AGTGAAGAACTCAATTATAGGATTCACCTTAAAGGACTTACAGGGACAGCCGGCAAAATA
AGCAGCATCAGCCAACCGGAAATGATTTTAGCACAAAGGATGGAGACAACGACAAATGT
ATTTGCAATGTTCAAAATGCTAACAGGAGGCTGGTGGTTTGATGCATGTGGTCCCTCC
AACTTGAACGGAATGACTATCCACAGAGGCAGAACACAAATAAGTTCAACGGCATTAA
TGGTACTACTGGAAGGCTCAGGCTATTCGCTCAAGGCCACAACCATGATGATCCGACCA
GCAGATTTCTAA
  
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Restriction Sites: Please inquire



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<b>ACCN:</b>	NM_001118888
<b>Insert Size:</b>	5000 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>NM_001118888.1, NP_001112360.1</u>
<b>RefSeq Size:</b>	5114 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	285
<b>UniProt ID:</b>	<u>O15123</u>
<b>Cytogenetics:</b>	8p23.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon compared to variant 1, resulting in an isoform (c) that has the same N- and C-termini but is shorter compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>