

Product datasheet for **SC318914**

Angiopoietin 2 (ANGPT2) (NM_001118887) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 2 (ANGPT2) (NM_001118887) 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_001118887 edited
 ATGTGGCAGATTGTTTTCTTTACTCTGAGCTGTGATCTTGTCTTGGCCGAGCCTATAAC
 AACTTTTCGGAAGAGCATGGACAGCATAGGAAAGAAGCAATATCAGTCCAGCATGGGTCC
 TGCAGCTACACTTTCCTCCTGCCAGAGATGGACAACCTGCCGCTCTCCTCCAGCCCTAC
 GTGTCCAATGCTGTGCAGAGGGACGCGCGCTCGAATACGATGACTCGGTGCAGAGGCTG
 CAAGTGTGGAGAACATCATGAAAAACAACACTCAGTGGCTAATGAAGCTTGAGAATTAT
 ATCCAGGACAACATGAAGAAAGAAATGGTAGAGATACAGCAGAATGCAGTACAGAACCAG
 ACGGCTGTGATGATAGAAATAGGGACAAACCTGTTGAACCAAACAGCGGAGCAAACGCGG
 AAGTTAACTGATGTGGAAGCCCAAGTATTAATCAGACCAGGACTTGAAGTTCAGCTC
 TTGGAACACTCCCTCTCGACAAACAAATGGAAAAACAGATTTTGGACCAGACCAGTGAA
 ATAAACAAATTGCAAGATAAGAACAGTTTCCTAGAAAAGAAGGTGCTAGCTATGGAAGAC
 AAGCACATCATCCAACACTACAGTCAATAAAAAGAAGAGAAAGATCAGCTACAGGTGTTAGTA
 TCCAAGCAAAATTCCATCATTGAAGAACTAGAAAAAAAATAGTGACTGCCACGGTGAAT
 AATTCAAGTTCTTTCAGAAGCAGCAACATGATCTCATGGAGACAGTTAATAACTTACTGACT
 ATGATGTCCACATCAAACCTAAGGACCCCACTGTTGCTAAAGAAGAACAATCAGCTTC
 AGAGACTGTGCTGAAGTATTCAAATCAGGACACACCACGAATGGCATCTACACGTTAACA
 TTCCCTAATTCTACAGAAGAGATCAAGGCCTACTGTGACATGGAAGCTGGAGGAGCGGG
 TGGACAATTATTCAGCGACGTGAGGATGGCAGCGTTGATTTTCAGAGGACTTGGAAAGAA
 TATAAAGTGGGATTTGGTAACCCCTCAGGAGAATATTGGCTGGGAAATGAGTTTGTTCG
 CACTGACTAATCAGCAACGCTATGTGCTTAAAAATACACCTTAAAGACTGGGAAGGGAAT
 GAGGCTTACTCATTGATGAACATTTCTATCTCTCAAGTGAAGAACTCAATTATAGGATT
 CACCTTAAAGGACTTACAGGGACAGCCGCAAAATAAGCAGCATCAGCCAACCAGGAAAT
 GATTTTAGCACAAGGATGGAGACAACGACAAATGTATTTGCAAATGTTCACAAATGCTA
 ACAGGAGGCTGGTGGTTTGATGCATGTGGTCCTTCCAACCTGAACGGAATGTAATATCCA
 CAGAGGCAGAACACAAATAAGTTCAACGGCATTAAATGGTACTACTGGAAGGCTCAGGC
 TATTCGCTCAAGGCCACAACCATGATGATCCGACCAGCAGATTTCTAA



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Restriction Sites:	Please inquire
ACCN:	NM_001118887
Insert Size:	2500 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).
OTI Annotation:	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.
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:	<u>NM_001118887.1</u> , <u>NP_001112359.1</u>
RefSeq Size:	5267 bp
RefSeq ORF:	1488 bp
Locus ID:	285
UniProt ID:	<u>O15123</u>
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

This gene belongs to the angiotensin family of growth factors. The protein encoded by this gene is an antagonist of angiotensin 1, and both angiotensin 1 and angiotensin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiotensin 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 angiotensin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]

Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1, resulting in an isoform (b) that lacks an internal aa 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.