

## Product datasheet for **MC216929**

### Angpt1 (NM\_009640) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt1 (NM_009640) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Angpt1
Synonyms:	1110046O21Rik; an; Ang; Ang-1; Ang1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216929 representing NM\_009640  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACAGTTTTCTTTCTTTGCACTTCTCGTGCATTCTGACTCACATAGGGTGCAGCAACCAGCGCC  
GAAATCCAGAAAACGGAGGGAGAAGATATAACCGATTCAACATGGGCAATGTGCCTACACTTTCTTCT  
TCCAGAACACGACGGAACTGCCGTGAGAGTGCAGACAGCAGTACAACCAACGCTCTGCAAAGGGAT  
GCTCCACACGTGGAGCCGGATTTCTTTCCAGAACTTCAGCATCTGGAGCATGTGATGGAAAATTATA  
CTCAGTGGCTGCAAAAACCTTGAGAATTACATTGTGAAAAATGAAGTCGGAGATGGCCAGATACAACA  
GAATGCTGTTCAAAACCACCGCCACCATGCTTGAGATAGGAACCACTCTTTATCTCAGACTGCAGAG  
CAGACCCGAAAGCTGACAGATGTTGAGACCCAGGTAATAATCAAACATCCCGACTTGAATACAACCTGC  
TAGAGAATTCATTATCAACATACAAGCTAGAGAAGCAACTTCTCCAACAGACAAAATGAAATCTGAAGAT  
TCACGAAAAAACAGTTTACTAGAGCACAAAATCTTAGAAATGGAGGGAAAAACAAAAGAAGAATTGGAC  
ACCTTGAAGGAGGAGAAAAGAAAACCTTCAAGGCTTGGTTTCTCGTCAGACATTCATCATCCAGGAGTTGG  
AGAAGCAACTTAGTAGAGCTACCAACAACAACAGCATCCTGCAGAAGCAACAACCTGGAGCTCATGGACAC  
AGTTCATAACCTTATCAGCCTTTCAGCTAAAGAAGGTGTTTTGCTAAAGGGAGGAAAAAGAGAAGAAGAG  
AAACCATTTTCGAGACTGTGCGGATGTATATCAAGCTGGTTTTAATAAAAGTGGAATCTACACTATTTATT  
TTAATAATATGCCAGAACCCAAAAGGTATTTTGCAATATGGATGTGAATGGGGGAGGTTGGACAGTAAT  
ACAACACCGGGAAGATGGAAGCCTGGATTTCCAGAGGGGCTGGAAGGAGTATAAAATGGGTTTTGGGAAT  
CCCTCTGGTGAATATTGGCTTGGGAACGAGTTCATTTTTGCAATAACCAGTCAGAGGCAGTACATGCTGA  
GGATTGAGCTGATGGACTGGGAAGGGAACCGAGCCTACTCACAGTACGACAGATTCACATAGGAAATGA  
AAAGCAGAACTATAGGTTATATTTAAAAGGTACACAGGGACAGCAGGCAACAGAGCAGCTTGATCTTA  
CACGGTGCCGATTTACGACGAAGGATGCTGATAACGACAACGTATGTGCAAAATGCGCTCTCATGCTAA  
CAGGAGGTTGGTGGTTCGATGCCTGTGGCCCTTCCAATCTAAATGGAATGTTCTACACTGCGGGACAAAA  
TCATGGAAAACCTGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTACTCCTTACGTTCCACCACC  
ATGATGATCCGGCCCTTGGACTTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2411\\_f08.zip](https://cdn.origene.com/chromatograms/ja2411_f08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009640

**Insert Size:** 1497 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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:**

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\\_009640.4](#), [NP\\_033770.2](#)

**RefSeq Size:** 4316 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 11600

**UniProt ID:** [O08538](#)

**Cytogenetics:** 15 16.69 cM

**Gene Summary:** This gene encodes a secreted glycoprotein that belongs to the angiopoietin family of vascular growth factors. The encoded protein is a ligand in the vascular tyrosine kinase signaling pathway and regulates the formation and stabilization of blood vessels. This protein also functions in striated muscles by promoting proliferation, migration and differentiation of skeletal myoblasts and plays an essential role in the vascular response to tissue injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.