

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACAGTTTTCTTTCTTTGCATTCTTCGCTGCCATTCTGACTCACATAGGGTGCAGCAACCAGCGCC
 GAAATCCAGAAAACGGAGGGAGAAGATATAACCGGATTCAACATGGGCAATGTGCCTACACTTTCTATTCT
 TCCAGAACACGACGGGAACCTGCCGTGAGAGTGCAGACAGCAGTACAACACCAACGCTCTGCAAAGGGAT
 GCTCCACACGTGGAGCCGGATTTCTCTTCCAGAACTTCAGCATCTGGAGCATGTGATGGAAAATTATA
 CTCAGTGGCTGCAAAACTTGAGAATTACATTGTGAAAAATGAAGTCGGAGATGGCCAGATACAACA
 GAATGCTGTTCAAAACCACACGGCCACCATGCTTGAGATAGGAACCACTCTTTATCTCAGACTGCAGAG
 CAGACCCGAAAGCTGACAGATGTTGAGACCCAGGTAATAATCAAACATCCCGACTTGAAATACAATGC
 TAGAGAATTCATTATCAACATACAAGCTAGAGAAGCAACTTCTCCAACAGACAAATGAAATCTGAAGAT
 TCACGAAAAAACAGTTTACTAGAGCACAAAATCTTAGAAATGGAGGGAAAAACAAAAGAAGATTGGAC
 ACCTTGAAAGGAGGAGAAAAGAAACCTTCAAGGCTTGGTTTCTCGTCAGACATTCATCATCCAGGAGTTGG
 AGAAGCAACTTAGTAGAGCTACCAACAACAACAGCATCCTGCAGAAGCAACAACCTGGAGCTCATGGACAC
 AGTTCATAACCTTATCAGCCTTTGCACTAAAGAAGGTGTTTTGCTAAAGGGAGGAAAAAGAGAAGAAGAG
 AAACCATTTTCGAGACTGTGCGGATGTATATCAAGCTGGTTTTAATAAAAGTGGAATCTACACTATTTATT
 TTAATAATATGCCAGAACCCAAAAGGTATTTTGCAATATGGATGTGAATGGGGGAGGTTGGACAGTAAT
 ACAACACCGGGAAGATGGAAGCCTGGATTTCCAGAGGGGCTGGAAGGAGTATAAATGGGTTTTGGGAAT
 CCCTCTGGTGAATATTGGCTTGGGAACGAGTTCATTTTGCAATAACCAAGTCAGAGGCAGTACATGCTGA
 GGATTGAGCTGATGGACTGGGAAGGGAACCGAGCCTACTCACAGTACGACAGATTCCACATAGGAAATGA
 AAAGCAGAACTATAGGTTATATTTAAAAGGTACACAGGGACAGCAGGCAACAGAGCAGCTTGATCTTA
 CACGGTGCCGATTTACGACGAAGGATGCTGATAACGACAACGTATGTGCAAAATGCGCTCTCATGCTAA
 CAGGAGGTTGGTGGTTCGATGCCTGTGGCCCTTCAATCTAAATGGAATGTTCTACACTGCGGGACAAAA
 TCATGGAAACTGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTACTCCTTACGTTCCACCACC
 ATGATGATCCGGCCCTTGGACTTT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2411_f08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009640

Insert Size: 1497 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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:	<p>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]</p> <p>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.</p>