

Product datasheet for **MR207984**

Angpt1 (NM_009640) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt1 (NM_009640) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR207984 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGTTTTCTTTCTTTGCACTTCTCGTGCATTCTGACTCACATAGGGTGCAGCAACCAGCGCC
 GAAATCCAGAAAACGGAGGGAGAAGATATAACCGGATTCAACATGGGCAATGTGCCTACACTTTCTTCT
 TCCAGAACACGACGGAACTGCCGTGAGAGTGCAGACAGCAGTACAACCAACGCTCTGCAAAGGGAT
 GCTCCACACGTGGAGCCGGATTTCTTTCCAGAACTTCAGCATCTGGAGCATGTGATGGAAAATTATA
 CTCAGTGGCTGCAAAAACCTTGAGAATTACATTGTGAAAAATGAAGTCGGAGATGGCCAGATACAACA
 GAATGCTGTTCAAAACCACAGGCCACCATGCTTGAGATAGGAACCACTCTTTATCTCAGACTGCAGAG
 CAGACCCGAAAGCTGACAGATGTTGAGACCCAGGTAATAATCAAACATCCCGACTTGAAATACAACCTGC
 TAGAGAATTCATTATCAACATACAAGCTAGAGAAGCAACTTCTCCAACAGACAAAATGAAATCTGAAGAT
 TCACGAAAAAACAGTTTACTAGAGCACAAAATCTTAGAAATGGAGGGAAAAACAAAAGAAGATTGGAC
 ACCTTGAAAGGAGGAGAAAAGAAAACCTTCAAGGCTTGGTTTCTCGTCAGACATTCATCATCCAGGAGTTGG
 AGAAGCAACTTAGTAGAGCTACCAACAACAGCATCCTGCAGAAGCAACAACCTGGAGCTCATGGACAC
 AGTTCATAACCTTATCAGCCTTTCAGCTAAAGAAGGTGTTTTGCTAAAGGGAGGAAAAAGAGAAGAAGAG
 AAACCATTTTCGAGACTGTGCGGATGTATATCAAGCTGGTTTTAATAAAAGTGGAACTACACTATTTATT
 TTAATAATATGCCAGAACCCAAAAGGTATTTGCAATATGGATGTGAATGGGGGAGGTTGGACAGTAAT
 ACAACACCGGGAAGATGGAAGCCTGGATTTCCAGAGGGGCTGGAAGGAGTATAAAATGGGTTTTGGGAAT
 CCCTCTGGTGAATATTGGCTTGGGAACGAGTTCATTTTGAATAACCAAGTCAGAGGCAGTACATGCTGA
 GGATTGAGCTGATGGACTGGGAAGGGAACCGAGCCTACTCACAGTACGACAGATTCACATAGGAAATGA
 AAAGCAGAACTATAGGTTATATTTAAAAGGTACACAGGGACAGCAGGCAACAGAGCAGCTTGATCTTA
 CACGGTGCCGATTTACAGCACGAAGGATGCTGATAACGACAACGTATGTGCAAAATGCGCTCTCATGCTAA
 CAGGAGGTTGGTGGTTCGATGCCTGTGGCCCTTCCAATCTAAATGGAATGTTCTACACTGCGGGACAAAA
 TCATGGAAAACCTGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTACTCCTTACGTTCCACCACC
 ATGATGATCCGGCCCTTGGACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207984 protein sequence
 Red=Cloning site Green=Tags(s)

MTVFLSFAFFAAILTHIGCSNQRRNPENGGRRYNRIQHGCAYTFILPEHDGNCRESTATEQYNTNALQRD
 APHVEPDFSSQKLQHLEHVMENYQWLQKLENYIVENMKSEMAQIQQNAVQNHTATMLEIGTSLLSQTAE
 QTRKLTQVETQVLNQTSRLEIQLENSLSTYKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELD
 TLKEEKENLQGLVSRQTFIIQELEKQLSRATNNSILQKQLELMDTVHNLISLCTKEGVLLKGGKREEE
 KPFRCADVYQAGFNKSGIYTIYFNNMPEPKVFCNMDVNGGWTVIQHREDGSLDFQRGWKEYKMGFGN
 PSGEYWLGNFIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLLYKGTGTAGKQSSLIL
 HGADFSTKDADNDNCMCKCALMLTGGWWFDACGPSNLNGMFYTAGQNHGKLNIGIKWHYFKGPSYSLRSTT
 MMIRPLDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009640

ORF 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

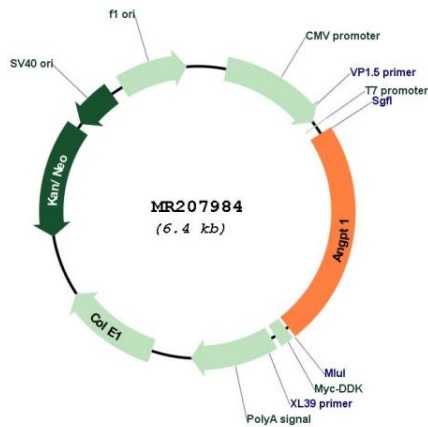
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_009640.2](#)

RefSeq Size: 4316 bp
 RefSeq ORF: 1497 bp
 Locus ID: 11600
 UniProt ID: [O08538](#)
 Cytogenetics: 15 16.69 cM
 MW: 57.5 kDa

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]

Product images:



Circular map for MR207984