

Product datasheet for **MC217131**

Angpt4 (NM_009641) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt4 (NM_009641) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Angpt4
Synonyms:	Agpt4; ANG-3; ANG-4; Ang3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217131 representing NM_009641
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTGCCAGCCAGCTATGCTACTAGATGGCCTCCTCTGCTGGCCACCATGGCTGCAGCCCAGCACA
 GAGGGCCAGAAGCCGGTGGGCACCGCCAGATTCACCAGGTCGGCGTGGCCAGTGCAGCTACACCTTGT
 GGTGCCGGAGCCTGATATCTGCCAGCTGGCGCCGACAGCGCGCCTGAGGCTTTGGGGGCTCCAATAGC
 CTCCAGAGGGACTTGCCTGCCTCGAGGCTGCACCTAACAGACTGGCGAGCCAGAGGGCCAGCGGGCCC
 AGCGTGTGAGCCAGCTGGAGAAGATACTAGAGAATAAACTCAGTGGCTGCTGAAGCTGGAGCAGTCCAT
 CAAGGTGAACTTGAAGTACACCTGGTGCAGGCCAGCAGGACACAATCCAGAACCAGACAACCTACCATG
 CTGGCACTGGGTGCCAACCTCATGAACCAGACCAAGCTCAGACCCACAAGCTGACTGCTGTGGAGGCAC
 AGGTCTAAACCAGACATTGCACATGAAGACCCAAATGCTGGAGAAGTCACTGTCCACCAACAAGCTGGA
 GCGGCAGATGCTGATGCAGAGCCGAGAGCTGCAGCGGCTGCAGGGTCGCAACAGGGCCCTGGAGACCAGG
 CTGCAGGCACTGGAAGCACAACATCAGGCCAGCTTAACAGCCTCCAAGAGAAGAGGGAAACAACCTGCACA
 GTCTCCTGGGCCATCAGACCGGGACCCTGGCTAACCTGAAGCACAATCTGCACGCTCTCAGCAGCAATTC
 CAGCTCCTGCAGCAGCAGCAGCAACTGACGGAGTTTGTACAGCGCCTGGTACGGATTGTAGCCAG
 GACCAGCATCCGGTTTCCTAAAGACACCTAAGCCAGTGTCCAGGACTGTGCAGAGATCAAGCGCTCCG
 GGGTTAATACCAGCGGTGTCTATACCATCTATGAGACCAACATGACAAAGCCTCTCAAGGTGTTCTGTGA
 CATGGAGACTGATGGAGTGGCTGGACCCTCATCCAGCACCGGGAGGATGGAAGCGTAAATTTCCAGAGG
 ACCTGGGAAGAATACAAAGAGGGTTTTGGTAATGTGGCCAGAGAGCACTGGCTGGGCAATGAGGCTGTGC
 ACCGCCCTACCAGCAGAACGGCCTACTTGTACGCGTGGAACTGCATGACTGGGAAGGCCCCAGACCTC
 CATCCAGTATGAGAATTCCAGCTGGGCAGCGAGAGGCAGCGGTACAGCCTCTCTGTGAATGACAGCAGC
 AGTTTCAGCAGGGCGCAAGAACAGCCTGGCTCCTCAGGGCACCAAGTTCAGCACCAAGACATGGACAATG
 ATAAGTGCATGTGAAATGTGCTCAGATGCTGTCTGGAGGGTGGTGGTTTGTGCCTGTGGCCTCTCAA
 CCTCAATGGCATCTACTATTCAGTTCATCAGCACTTGCACAAGATCAATGGCATCCGCTGGCACTACTTC
 CGAGGGCCCCAGCTACTACTGCACGGCACAGCATGATGCTGAGGCCAATGGGTGCC**TGA**

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_009641
- Insert Size:** 1530 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).
- 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_009641.1](#), [NP_033771.1](#)

RefSeq Size: 1530 bp

RefSeq ORF: 1530 bp

Locus ID: 11602

UniProt ID: [Q9WVH6](#)

Cytogenetics: 2 74.83 cM

Gene Summary: This gene is a member of the angiopoietin family of secreted growth factors comprising Angiopoietins-1, -2, and -3, all of which bind the TEK Receptor Tyrosine Kinase. Angiopoietin/TEK Receptor Tyrosine Kinase signaling is involved in survival and migration of endothelial cells and regulates vascular remodeling and maintenance of vascular integrity. Angiopoietin/TEK Receptor Tyrosine Kinase signaling is also required for lymphangiogenesis. Family members bind TEK Receptor Tyrosine Kinase as multimeric clusters but their oligomerization properties differ from one another and this is thought to provide a mechanistic basis for their distinct physiologic roles. [provided by RefSeq, Jul 2016]