

## Product datasheet for **MR207970**

### Angpt2 (NM\_007426) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt2 (NM_007426) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Angpt2
Synonyms:	Agpt2; An; Ang; Ang-2; Ang2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207970 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCAGATCATTTTCTAACTTTGGCTGGGATCTTGTCTTGGCCTCAGCCTACAGTAACTTTAGGA  
 AGAGCGTGGACAGCACAGGCAGAAGGCAGTACCAGGTCCAGAACGGACCCGTCAGCTACAGTTCCTGCT  
 GCCGGAGACCGACAGCTGCCGATCTTCTCCAGCCCTACATGTCCAATGCCGTGCAGAGGGATGCACCC  
 CTCGACTACGACGACTCAGTGCAAAGGCTGCAGGTGCTGGAGAACATTCTAGAGAACAACACACAGTGGC  
 TGATGAAGCTGGAGAATTACATTCAGGACAACATGAAGAAGGAGATGGTGGAGATCCAACAGAATGTGGT  
 GCAGAACCAGACAGCTGTGATGATAGAGATTGGAACCAGCTTGTGAACCAGACAGCAGCACAACCTCGG  
 AAAGTACTGATGTGGAAGCCCAAGTACTAAACCAGACGACAAGACTCGAGCTGCAGCTTCTCCAACATT  
 CTATTTCTACCAACAAATGGAAAAGCAGATTTGGATCAGACCAGTAAAATAACAAGCTACAAAATAA  
 GAACAGCTTCTAGAACAGAAAGTCTGGACATGGAGGGCAAGCACAGCGAGCAGCTACAGTCCATGAAA  
 GAGCAGAAGGACGAGCTCCAGGTGCTGGTGTCCAAGCAGAGCTCTGTATTGACGAGCTGGAGAAGAAGC  
 TGGTGACAGCCACGGTCAACAACCTCGCTCCTTCAGAAGCAGCAGCATGACCTAATGGAGACCGTCAACAG  
 CTTGCTGACCATGATGTCATCACCCAACCTCAAGAGCTCGGTTGCTATCCGTAAGAAGAGCAAACCACC  
 TTCAGAGACTGTGCGAAATCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
 ACTCCACAGAGGAGATCAAGGCCACTGTGACATGGACGTGGGTGGAGGAGGGTGGACAGTCATCCAACA  
 CCGAGAAGATGGCAGTGTGGACTCCAGAGGACGTGGAAGAATAACAAGAGGGCTTCGGGAGCCCTCTG  
 GGAGAGTACTGGCTGGCAACGAGTTTGTCTCCAGCTGACCGGTGACACCGCTACGTGCTTAAGATCC  
 AGCTGAAGGACTGGGAAGCAACGAGGCGCATTCGCTGTATGATCACTTACCTCGCTGAAGAGTC  
 CAACTACAGGATTCACCTTACAGGACTCACGGGACCGGGGCAAAAATAAGTAGCATCAGCCAACCAGGA  
 AGTGATTTTAGCACAAGGATTCGGACAATGACAATGCATCTGCAAGTGTTCAGATGCTCTCAGGAG  
 GCTGGTGGTTGACGCATGTGGTCTTCCAACCTGAATGGACAGTACTACCCACAAAAACAGAATACAAA  
 TAAGTTTAAACGGTATCAAGTGGTACTACTGGAAGGGTCCGGCTACTCGCTCAAGGCCACAACCATGATG  
 ATCCGGCCAGCAGATTTTC

**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR207970 protein sequence  
 Red=Cloning site Green=Tags(s)

MWQIIFLTFGWDLVLASAYSNFRKSVSDSTGRRQYVQNGPCSYTFLLPETDSCRSSSPYMSNAVQRDAP  
 LDYDDSVQRLQVLENIENNTQWLMKLENYIQDNMCKEMVEIQQNVVQNTAVMIEIGTSLLNQTAQTR  
 KLTDVQAQVFNQTRLELQLLQHSISTNKLEKQILDQTSEINKLQNKNSFLEQKVLDMEGKHSEQLQSMK  
 EQKDELQVLVSKQSSVIDELEKLVATVNNLSLQKQHDLMETVNSLLTMMSSPNSKSSVAIRKEEQTT  
 FRDCAEIFKSGLTTSGIYTLTFPNSTEEIKAYCDMDVGGGGWTVIQHREDGSDVDFQRTWKEYKEFGSPL  
 GEYWLGNFVSQLTGQHRVYVKIQLKDWEAGNEAHSLYDHFYLAGEE SNYRIHLTGLTGTAGKISSISQPG  
 SDFSTKSDNDKCIKCSQMLSGGWFDACGPSNLNGQYYPQKQNTNKFNGIKWYWKSGYSLKATMM  
 IRPADF

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_007426

**ORF Size:** 1488 bp

**OTI Disclaimer:** 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_007426.1](#), [NM\\_007426.2](#), [NM\\_007426.3](#), [NM\\_007426.4](#), [NP\\_031452.2](#)

**RefSeq Size:** 3560 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 11601

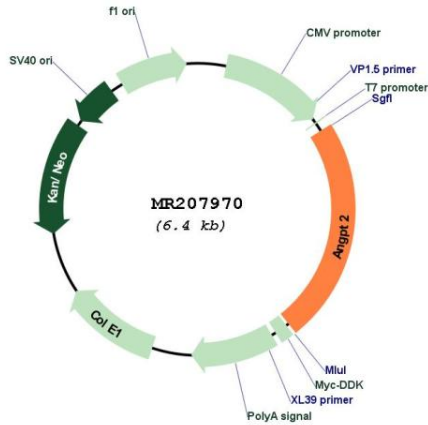
UniProt ID: [O35608](#)

Cytogenetics: 8 10.3 cM

MW: 56.6 kDa

Gene Summary: This gene encodes an endothelial cell (EC)-derived regulator of angiogenesis and ligand for endothelial-specific receptor tyrosine kinase. The encoded protein acts as an anti-apoptotic factor for stressed ECs and a proapoptotic factor for resting ECs. [provided by RefSeq, Jan 2013]

**Product images:**



Circular map for MR207970