

## Product datasheet for **RN201008**

### Angpt2 (NM\_134454) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt2 (NM_134454) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Angpt2
Synonyms:	Agpt2; Ang-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN201008 representing NM\_134454  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGGCAGATTGTTTTCTAACTTTGGCTGTGATCTTGTCTTGGCCTCAGCCTACAATAACTTTAGGA  
AGAGCGTGGACAGCACGGGCAGGAGGCAGTACCAGGTCCAGAACGGACCCTGCAGCTACACATTCCTGCT  
GCCGGAGACCGACAGCTGCCGATCTTCTCCAGCCCTACATGTCTAACGCCGTGCAGAGGGATGCACCC  
CTCGACTACGACGACTCAGTGCAAAGGCTGCAGGTGCTGGAGAACATTCTAGAGAACAACACACAGTGGC  
TGATGAAGCTGGAGAACTACATCCAGGACAACATGAAGAAGGAGATGGTGGAGATCCAGCAGAATGTGGT  
GCAGAACCAGACGGCTGTGATGATCGAGATTGGAACAGTTTGTCAACCAGACGGCGGCACAAACTCGG  
AAACTGACTGATGTGGAAGCCCAAGTACTAAACCAGACGACAAGACTCGAGTTGCAGCTTCTTCAACATT  
CTATTTCTACCAAAAATGGAAAAGCAGATTTGGACCAGACCAGTAAAATAACAAACTACAAGATAA  
GAACAGCTTCTAGAAAAGAAAGTGTGGACATGGAGGACAAGCACAGTGTGCAGCTGCAGTCCATGAAG  
GAGCAGAAGGACCAGCTTCAAGTGTGGTGTCCAAGCAGAGCTCCGTCATCGATGAGCTGGAGAAGAAGC  
TGGTGACGGCCACAGTCAACAACACTCAGTCTTCAAGAGCAGCAGCATGATCTAATGGAGACGGTCAACAG  
CTTGCTGACCATGATGTCATCGCCCGACTATAAGAGCTCTGTTGCTGTCCCTAAAGAAGAGAAAACCACC  
TTCAGAGACTGTGCAGAAATCTTCAAGTCAGGACTCACCACCAGTGGCATCTACACGCTGACCTTCCCCA  
ACTCCACAGAGGAGGTCAAGGCCACTGTGACATGGACATGGGTGGAGGAGGGTGGACGGTCATCCAACA  
CCGGGAAGATGGCAGCGTTGACTTCCAGAGAACGTGGAAGAGTACAAAGAGGGCTTCGGGAGCCCTCTG  
GGAGAGTATTGGCTGGCAACGAGTTTGTCTCCAGCTGACCAGTGGGCATCGCTACGTGCTGAAGATCC  
AGCTGAAGGACTGGGAAGCAGCGAGGCACACTCTGTATGAGCACTTCTACCTGTCCGGCAGGAGATC  
CAACTACAGGATTCACCTTACAGGACTCACAGGCACGGCGGGCAAATCAGTAGCATCAGCCAACCAGGA  
AGTGATTTTAGCACAAGGATTCGGACAATGACAAATGCATCTGCAAGTGTCCAGATGCTCACAGGAG  
GCTGGTGGTTCGACGCATGTGGTCTTCCAACCTGAATGGACAGTACTACCCACAAAAGCAGAATACGAA  
TAAGTTCAACGGTATCAAGTGGTACTACTGGAAGGGTCCGGTACTCGCTCAAGGCCACGACCATGATG  
ATCCGGCCAGCAGATTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_134454

**Insert Size:** 1491 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\\_134454.1](#), [NP\\_604449.1](#)

**RefSeq Size:** 2296 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 89805

**UniProt ID:** [O35462](#)

**Cytogenetics:** 16q12.5

**Gene Summary:** Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal (By similarity).[UniProtKB/Swiss-Prot Function]