

## Product datasheet for **MG207970**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt2 (NM_007426) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angpt2
Synonyms:	Agpt2; An; Ang; Ang-2; Ang2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207970 representing NM\_007426  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTGGCAGATCATTTTCTAACTTTGGCTGGGATCTTGTCTTGGCCTCAGCCTACAGTAACTTTAGGA  
 AGAGCGTGGACAGCACAGGCAGAAGGCAGTACCAGGTCCAGAACGACCCTGCAGCTACAGTTCCTGCT  
 GCCGGAGACCGACAGCTGCCGATCTTCTCCAGCCCTACATGTCCAATGCCGTGCAGAGGGATGCACCC  
 CTCGACTACGACGACTCAGTGCAAAGGCTGCAGGTGCTGGAGAACATTCTAGAGAACAACACACAGTGGC  
 TGATGAAGCTGGAGAATTACATTCAGGACAACATGAAGAAGGAGATGGTGGAGATCCAACAGAATGTGGT  
 GCAGAACCAGACAGCTGTGATGATAGAGATTGGAACCAGCTTGTGAACCAGACAGCAGCACAAACTCGG  
 AAAGTACTGATGTGGAAGCCCAAGTACTAAACCAGACGACAAGACTCGAGCTGCAGCTTCTCCAACATT  
 CTATTTCTACCAAAAATGGAAAAGCAGATTTTGGATCAGACCAGTAAAATAACAAGCTACAAAATAA  
 GAACAGCTTCTAGAACAGAAAGTCTGGACATGGAGGGCAAGCACAGCGAGCAGCTACAGTCCATGAAA  
 GAGCAGAAGGACGAGCTCCAGGTGCTGGTGTCCAAGCAGAGCTCTGTATTGACGAGCTGGAGAAGAAGC  
 TGGTGACAGCCACGGTCAACAACCTCGCTCCTTCAGAAGCAGCAGCATGACCTAATGGAGACCGTCAACAG  
 CTTGCTGACCATGATGTCATCACCAACTCCAAGAGCTCGGTTGCTATCCGTAAGAAGAGCAAACCACC  
 TTCAGAGACTGTGCGAAATCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
 ACTCCACAGAGGAGATCAAGGCCACTGTGACATGGACGTGGGTGGAGGAGGGTGGACAGTCATCCAACA  
 CCGAGAAGATGGCAGTGTGGACTTCCAGAGGACGTGGAAGAATACAAAGAGGGCTTCGGGAGCCCTCTG  
 GGAGAGTACTGGTGGCAACGAGTTTGTCTCCAGCTGACCGGTGACACCGCTACGTGCTTAAGATCC  
 AGCTGAAGGACTGGGAAGCAACGAGGCGCATTCGCTGTATGATCACTTACCTCGTGAAGAGATC  
 CAACTACAGGATTCACCTTACAGGACTACGGGGACCGGGGCAAAAATAAGTAGCATCAGCCAACCAGGA  
 AGTGATTTTAGCACAAGGATTCGGACAATGACAATGCATCTGCAAGTGTCCAGATGCTCTCAGGAG  
 GCTGGTGGTTGACGCATGTGGTCTTCCAACCTGAATGGACAGTACTACCCACAAAAACAGAATACAAA  
 TAAGTTTAACGGTATCAAGTGGTACTACTGGAAGGGTCCGGCTACTCGCTCAAGGCCACAACCATGATG  
 ATCCGGCCAGCAGATTTTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207970 representing NM\_007426  
 Red=Cloning site Green=Tags(s)

MWQIIFLTFGWDLVLAAYSNFRKSVSDSTGRRQYVQVQNGPCSFTLLPETDSCRSSSPYMSNAVQRDAP  
 LDYDSSVQRLQVLENIENNTQWLMKLENYIQDNMCKEMVEIQNVVQNTAVMIEIGTSLLNQTAQTR  
 KLTQVDAQVLENTTRLELQLLQHSISTNKLEKQILDQTSEINKLQNKNSFLEQKVLDMEGKHSEQLQSMK  
 EQKDELQVLSKQSSVIDELEKLVSTATVNNSLLQKQHDLMETVNSLLTMMSSPNSKSSVAIRKEEQT  
 FRDCAEIFKSGLTTSIGIYTLTFPNSTEEIKAYCDMDVGGGWTVIQHREDGSVDFQRTWKEYKEFGSPL  
 GEYWLGNFVSQLTGQHRVYVLIQLKDWEGNEAHSLYDHFYLAGEEESNYRIHLTGLTGTAGKISSISQPG  
 SDFSTKSDNDKCIKCSQMLSGGWFDACGPSNLNGQYYPQKQNTNKFNGIKWYWKSGYSLKATMM  
 IRPADF

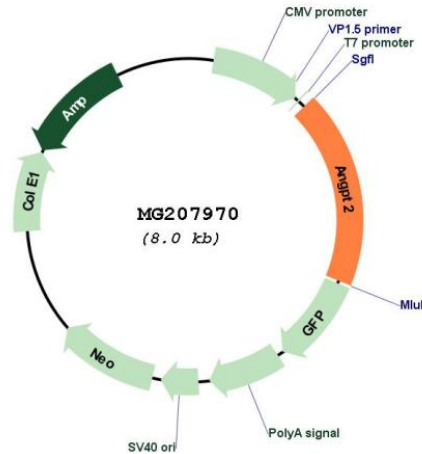
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



## Plasmid Map:



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.

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

**RefSeq Size:** 2475 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 11601

**UniProt ID:** [O35608](#)

**Cytogenetics:** 8 10.3 cM

**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]