

## Product datasheet for **RC201917**

### ANGPTL2 (NM\_012098) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANGPTL2 (NM_012098) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANGPTL2
Synonyms:	ARP2; HARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC201917 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCCACTGTGCGTGACATGCTGGTGGCTCGGACTGCTGGCTGCCATGGGAGCTGTTGCAGGCCAGG  
 AGGACGGTTTTGAGGGCACTGAGGAGGGCTCGCCAAGAGAGTTTACCTTAAACAGGTACAAGCGGGC  
 GGGCGAGTCCCAGGACAAGTGCACCTACACCTTATTGTGCCCCAGCAGCGGGTACCGGGTGCCATCTGC  
 GTCAACTCCAAGGAGCCTGAGGTGCTTCTGGAGAACCAGTGCATAAGCAGGAGCTAGAGCTGCTCAACA  
 ATGAGCTGCTCAAGCAGAAGCGGCAGATCGAGACGCTGCAGCAGCTGGTGGAGGTGGACGGCGCATTGT  
 GAGCGAGGTGAAGCTGCTGCGCAAGGAGAGCCGCAACATGAACTCGCGGGTACGCAGCTCTACATGCAG  
 CTCTGACAGATCATCCGCAAGCGGGACAACCGTTGGAGCTCTCCAGCTGGAGAACAGGATCTCTGA  
 ACCAGACAGCCGACATGCTGCAGCTGGCCAGCAAGTACAAGGACCTGGAGCACAAGTACCAGCACCTGGC  
 CAACTGGCCACAACCAATCAGAGATCATCGCGCAGCTTGAGGAGCACTGCCAGAGGGTGCCCTCGGCC  
 AGGCCCGTCCCCAGCCACCCCGCTGCCCGCCCGGGTCTACCAACCACCCACTACAACCGCATCA  
 TCAACCAGATCTCTACCAACGAGATCCAGAGTGACCAGAACCTGAAGGTGCTGCCACCCCTCTGCCAC  
 TATGCCACTCTCACCAGCTCCCATCTTCCACCGACAAGCCGTCGGGCCATGGAGAGACTGCCTGCAG  
 GCCCTGGAGGATGGCCACGACACCAGCTCCATCTACCTGGTGAAGCCGGAGAACCAACCCGCTCATGC  
 AGGTGTGGTGGCACCAGACACGACCCCGGGGCTGGACCGTATCCAGAGACGCTGGATGGCTCTGT  
 TAATTCTTCAGAACTGGGAGACGTACAAGCAAGGGTTGGGAACATTGACGGCGAATACTGGCTGGGC  
 CTGGAGAACATTTACTGGCTGACGAACCAAGGCAACTACAACTCCTGGTACCATGGAGGACTGGTCCG  
 GCCGAAAAGTCTTTGCAGAATACGCCAGTTTCCGCTGGAACCTGAGAGCGAGTATTATAAGCTGCGGT  
 GGGCGCTACCATGGCAATGCGGGTGAATCCTTTACATGGCACAACGGCAAGCAGTTCACCACCCCTGGAC  
 AGAGATCATGATGCTACACAGGAACTGTGCCACTACCAGAAGGGAGGCTGGTGGTATAACGCCTGTG  
 CCCACTCAACCTCAACGGGGTCTGGTACCGCGGGGGCCATTACCGAGCCGCTACCAGGACGGAGTCTA  
 CTGGGCTGAGTTCGAGGAGGCTTACTCACTCAAGAAAGTGGTATGATGATCCGACCGAACCCCAAC  
 ACCTCCAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC201917 protein sequence  
 Red=Cloning site Green=Tags(s)

MRPLCVTCWWLGLLAAMGAVAGQEDGFEGTEEGSPREFIYLNRYKRAGESQDKCTYTFIVPQQRVGTGAIC  
 VNSKEPEVLLLENRVHKQELLELLNELLKQKRQIETLQQLVEVDGGIVSEVKLLRKESRNMNSRVTLQYMQ  
 LLHEIIRKRDNALELSQLENRILNQTADMLQLASKYKDLHKYQHLATLAHNQSEIIAQLEEHCQRVPSA  
 RPVPQPPPAAPPRVYQPPTYNRIINQISTNEIQSDQNLKVLPPPLPTMPTLTLSPSSTDKPSGPRDCLQ  
 ALEDGHDTSIIYLVKPNENTRLMQVWCDQRHDPGGWTVIQRRLDGVSNNFRNWETKQGFNIDGEYWL  
 LENIYWL TNQGNKLLVTMEDWSGRKVF AEYASFRLEPESEYYKRLRLGRYHGNAGDSFTWHNGKQFTTLD  
 RDHDVYTGNAHYQKGGWYNACAHSNLNGVWYRGGHYRSRYQDGVYWAEFRGGSYSLKVVMMIRPNPN  
 TFH

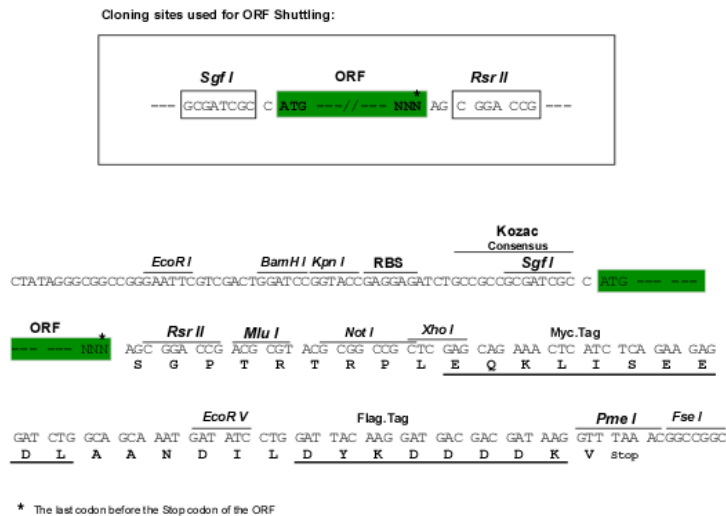
**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6186\\_h01.zip](https://cdn.origene.com/chromatograms/mk6186_h01.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_012098

**ORF Size:** 1479 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](mailto: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.

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

**RefSeq:** [NM\\_012098.3](#)

**RefSeq Size:** 3572 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 23452

**UniProt ID:** [Q9UKU9](#)

**Cytogenetics:** 9q33.3

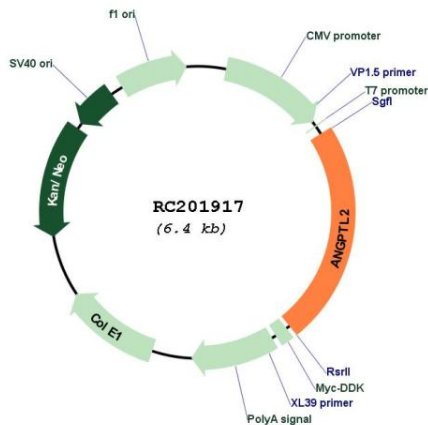
**Domains:** FBG

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

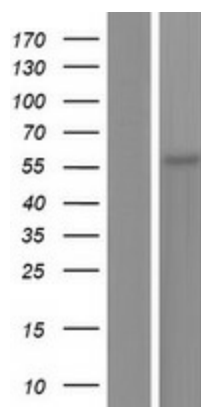
**MW:** 57.1 kDa

**Gene Summary:** Angiopoietins are members of the vascular endothelial growth factor family and the only known growth factors largely specific for vascular endothelium. Angiopoietin-1, angiopoietin-2, and angiopoietin-4 participate in the formation of blood vessels. ANGPTL2 protein is a secreted glycoprotein with homology to the angiopoietins and may exert a function on endothelial cells through autocrine or paracrine action. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC201917



Western blot validation of overexpression lysate (Cat# [LY402146]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201917 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).