

### Product datasheet for RC219398L2

#### OriGene Technologies, Inc.

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## Angiopoietin 1 (ANGPT1) (NM\_001146) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** Angiopoietin 1 (ANGPT1) (NM\_001146) Human Tagged Lenti ORF Clone

mGFP Tag:

Symbol: Angiopoietin 1

AGP1; AGPT; ANG1; HAE5 Synonyms:

**Mammalian Cell** None

Selection:

Vector: pLenti-C-mGFP (PS100071) E. coli Selection:

Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

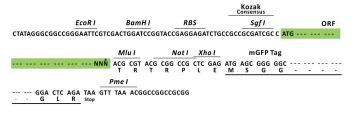
The ORF insert of this clone is exactly the same as(RC219398).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_001146

**ORF Size:** 1494 bp



#### Angiopoietin 1 (ANGPT1) (NM\_001146) Human Tagged Lenti ORF Clone - RC219398L2

**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:** <u>NM 001146.3</u>

**RefSeq Size**: 4338 bp **RefSeq ORF**: 1497 bp

Locus ID: 284

UniProt ID: Q15389

Cytogenetics: 8q23.1

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

**MW:** 57.3 kDa

**Gene Summary:** This gene encodes a secreted glycoprotein that belongs to the angiopoietin family. Members

of this family play important roles in vascular development and angiogenesis. All

angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase

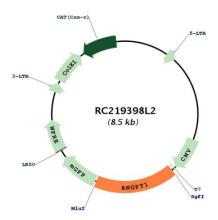
receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating

reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Mutations in this gene

are associated with hereditary angioedema. [provided by RefSeq, Aug 2020]



# **Product images:**



Circular map for RC219398L2