OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC219398L2V

Angiopoietin 1 (ANGPT1) (NM_001146) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Angiopoietin 1 (ANGPT1) (NM_001146) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Angiopoietin 1
Synonyms:	AGP1; AGPT; ANG1; HAE5
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_001146
ORF Size:	1494 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219398).
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.
RefSeq:	NM_001146.3
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

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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]