

Product datasheet for **RC208671**

ANGPTL1 (NM_004673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANGPTL1 (NM_004673) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANGPTL1
Synonyms:	ANG3; ANGPT3; AngY; ARP1; dj595C2.2; UNQ162
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208671 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGACTTTTACCTGGACCCTAGGTGTGCTATTCTTCCTACTAGTGGACACTGGACATTGCAGAGGTG
 GACAAATTCAAAATTAATAAAATAAACACAGAGAAGATACCCCTCGTGCCACAGATGGTAAAGAGGAAGCAAA
 GAAATGTGCATACACATTCTGTGACTGAAACAAAGAATAACAGGGCCAATCTGTGTCAACACCAAGGGG
 CAAGATGCAAGTACCATTAAAGACATGATCACCAGGATGGACCTTAAAAACCTGAAGGATGTGCTCTCCA
 GGCAGAAGCGGGAGATAGATGTTCTGCAACTGGTGGTGGATGTAGATGGAAACATTGTGAATGAGGTAAA
 GCTGCTGAGAAAGGAAAGCCGTAAACATGAACTCTCGTGTACTCAACTCTATATGCAATTATTACATGAG
 ATTATCCGTAAGAGGGATAATTCACTTGAACCTTCCCAACTGGAAAACAAAATCCTCAATGTCACCACAG
 AAATGTTGAAGATGGCAACAAGATACAGGGAAGTACAGGTGAAAACGCTTCTTGACTGATCTTGTCAA
 TAACCAATCTGTGATGATCACTTTGTTGGAAGAAGCAGTCTTGAGGATATTTCCCGACAAGACACCCAT
 GTGTCTCCCCACTTGTCCAGGTGGTGCCACAACATATTCCTAACAGCCAACAGTATACTCTGGTCTGC
 TGGGAGGTAACGAGATTACAGAGGATCCAGGTTATCCCAGAGATTTAATGCCACCACCTGATCTGGCAAC
 TTCTCCCACAAAAGCCCTTTCAAGATACCACCGTAACCTTTCATCAATGAAGGACCATTCAAAGACTGT
 CAGCAAGCAAAAAGAGCTGGGCATTTCGGTCAGTGGGATTATATGATTAAACCTGAAAACAGCAATGGAC
 CAATGCAGTTATGGTGTGAAAACAGTTTGGACCCTGGGGTTGGACTGTTATTAGAAAAGAAGACAGCGG
 CTCTGTCAACTTCTCAGAAATGGGAAAATTATAAGAAAGGGTTTGGAAACATTGACGGAGAATACTGG
 CTTGGACTGGAAAATATCTATATGCTTAGCAATCAAGATAATTACAAGTTATTGATTGAATTAGAAGACT
 GGAGTGATAAAAAAGTCTATGCAGAATACAGCAGCTTTCGTCTGGAACCTGAAAGTGAATCTATAGACT
 GCGCCTGGGAACCTACCAGGGAATGCAGGGGATTCTATGATGTGGCATAATGGTAAACAATTCACCACA
 CTGGACAGAGATAAAGATATGTATGCAGAAAAGTGCGCCACTTTCATAAAGGAGGCTGGTGGTACAATG
 CCTGTGCACATTCTAACCTAAATGGAGTATGGTACAGAGGAGGCCATTACAGAAGCAAGCACCAAGATGG
 AATTTTCTGGGCCGAATACAGAGGGGTCATACTCCTTAAGAGCAGTTCAGATGATGATCAAGCCTATT
 GAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208671 protein sequence
 Red=Cloning site Green=Tags(s)

MKTFTWTLGVLFFLLVDTGHCRGGQFKIKKINQRRYPRATDGKEEAKKCAYTFLVPEQRITGPICVNTKG
 QDASTIKDMITRMDLENLKDVL SRQKREIDVLQLVVDVDGNI VNEVKLLRKE SRNMNSRVTL YMQLLHE
 IIRKRDNSLELSQLENKILNVTTEMLKMATRYRELEVKYASLTDLYNNQSVMITLLEEQLRIFSRQDTH
 VSPPLVQVVPQHIPNSQYTPGLLGNEIQRPDGYPRDLMPPDLATSPTKSPFKIPPVTFINEGPFKDC
 QQAKEAGHSVSGIYMIKPENSNQPMQLWCENSLDPGGWTVIQKRTDGSVNFNFRNWENYKKGFGNIDGEYW
 LGLENIYMLSNQDNYKLLIELEDWSDKKVYAEYSSFRLEPESEFYRLRLGTYQGNAGDSMMWHNGKQFTT
 LDRDKDMYAGNCAHFHKGWYWNACAHSNLNGVWYRGGHYRSKHQDGFWAEYRGGYSYLRVQMMIKPI
 D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6147_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004673

ORF Size: 1473 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_004673.4](#)

RefSeq Size: 3555 bp

RefSeq ORF: 1476 bp

Locus ID: 9068

UniProt ID: [O95841](#)

Cytogenetics: 1q25.2

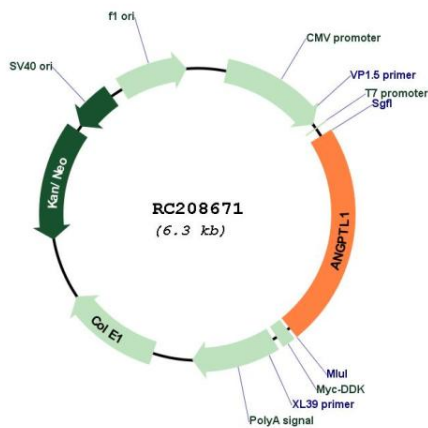
Domains: FBG

Protein Families: Druggable Genome, Secreted Protein

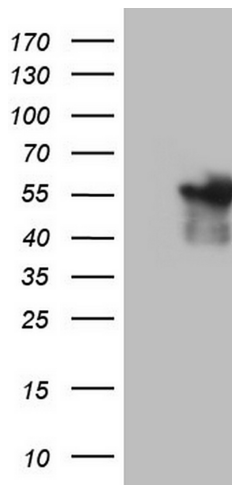
MW: 56.7 kDa

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. The protein encoded by this gene is another member of the angiopoietin family that is widely expressed in adult tissues with mRNA levels highest in highly vascularized tissues. This protein was found to be a secretory protein that does not act as an endothelial cell mitogen in vitro. [provided by RefSeq, Jul 2008]

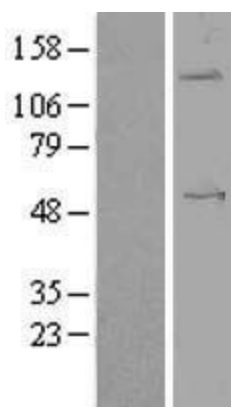
Product images:



Circular map for RC208671



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANGPTL1 (Cat# RC208671, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANGPTL1(Cat# [TA805608]). Positive lysates [LY401482] (100ug) and [LC401482] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401482]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208671 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).