

Product datasheet for **RC211289**

Angiopoietin 4 (ANGPT4) (NM_015985) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiopoietin 4 (ANGPT4) (NM_015985) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Angiopoietin 4
Synonyms:	ANG3; ANG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211289 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTCCAGCTAGCCATGCTGCAGGGCAGCCTCCTCCTTGTGGTTGCCACCATGTCTGTGGCTCAAC
 AGACAAGGCAGGAGGCGGATAGGGGCTGCGAGACACTTGTAGTCCAGCACGGCCACTGTAGCTACACCTT
 CTTGCTGCCAAGTCTGAGCCCTGCCCTCCGGGCTGAGGTCTCCAGGGACTCCAAACCCCTCCAGAGA
 GAATCACTGGCCAACCCACTGCACCTGGGGAAGTTGCCACCCAGCAGGTGAAACAGCTGGAGCAGGCAC
 TGCAGAACACACGCAGTGGCTGAAGAAGCTAGAGAGGGCCATCAAGACGATCTTGAGGTGGAAGCTGGA
 GCAGGTCCAGCAGCAAATGGCCAGAATCAGACGGCCCCATGCTAGAGCTGGCACCAGCCTCCTGAAC
 CAGACCACTGCCAGATCCGAAGCTGACCGACATGGAGGCTCAGCTCCTGAACCAGACATCAAGAAATGG
 ATGCCAGATGCCAGAGACCTTTCTGTCCACCAACAAGCTGGAGAACCAGCTGTCTACAGAGGCAGAA
 GCTCCAGCAGCTTCAGGGCCAAAACAGCGCGCTCGAGAAGCGGTTGCAGGCCCTGGAGACCAAGCAGCAG
 GAGGAGCTGGCCAGCATCCTCAGCAAGAAGGCGAAGCTGCTGAACACGCTGAGCCGCCAGAGCGCCGCC
 TCACCAACATCGAGCGCGGCTGCGCGGTGTGAGGCACAACCTCCAGCCTCCTGCAGGACCAGCAGCACAG
 CCTGCGCCAGCTGCTGGTGTGTTGCGGCACCTGGTGCAAGAAAGGGCTAACGCCTCGGCCCCGGCCTTC
 ATAATGGCAGGTGAGCAGGTGTTCCAGGACTGTGACAGATCCAGCGCTCTGGGGCCAGTGCCAGTGGTG
 TCTACACCATCCAGGTGTCCAATGCAACGAAGCCAGGAAGGTGTTCTGTGACCTGCAGAGCAGTGGAGG
 CAGGTGGACCTCATCCAGCGCGGTGAGAATGGCACCGTGAATTTTCAGCGGAAGTGAAGGATTACAAA
 CAGGGCTTCGGAGACCCAGCTGGGAGCAGCTGGCTGGCAATGAAGTGGTGCACCAGCTCACCAGAAGGG
 CAGCCTACTCTGCGTGTGGAGCTGCAAGACTGGGAAGGCCACGAGGCCATGCCCACTACGAACATTT
 CCACCTGGGCAGTGAGAACCAGCTATACAGGCTTTCTGTGGTCCGGTACAGCGGCTCAGCAGGGCGCCAG
 AGCAGCCTGGTCTGCAGAACACAGCTTTAGCACCTTGACTCAGACAACGACCACTGTCTCTGCAAGT
 GTGCCAAGTGTCTGGAGGGTGGTGGTTGACGCCTGTGGCCTGTCAAACCTCAACGGCGTCTACTA
 CCACGCTCCCGACAACAAGTACAAGATGGACGGCATCCGCTGGCACTACTTCAAGGGCCCCAGCTACTCA
 CTGCGTGCCTCTCGCATGATGATACGGCCTTTGGACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211289 protein sequence
 Red=Cloning site Green=Tags(s)

MLSQLAMLQGSLLL VVATMSVAQQTRQEADRGCE TLVVQHGHC SYTFLLPKSEPCPPGPEVSRDSNTLQR
 ESLANPLHLGKLP TQVQKLEQALQNNTQWLKLERAIKTI LRSKLEQVQQMAQNQTAPMLELGTSLLN
 QTTAQIRKLTDM EAQLLNQTSRMDAQMPETFLSTNKLENQLLQRQKLQQLQGQNSALEKRLQALETKQQ
 EELASILSKKALLN TLRQSAALTNIERGLRGVVRHNSLLQDQQHSLRQLLVLLRHLVQERANASAPAF
 IMAGEQVFDCAEIQRSGASASGVYTIQVSNATKPRKVFCDLQSSGGRWTLIQRRENGTVNFRNWKDYK
 QGFDPAGEHWLGNEVVHQLTRRAAYSLRVELQDWEGHEAYAQYEHFHLGSENQLYRLSVVGYSGSAGRQ
 SSLVLQNTSFSTLDSNDHCLCKCAQVMSGGWFDACGLSNLNGVYYHAPDNKYKMDGIRWHYFKGPSYS
 LRASRMMIRPLDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6369_h07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015985

ORF Size: 1509 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_015985.4](#)

RefSeq Size: 1955 bp

RefSeq ORF: 1512 bp

Locus ID: 51378

UniProt ID: [Q9Y264](#)

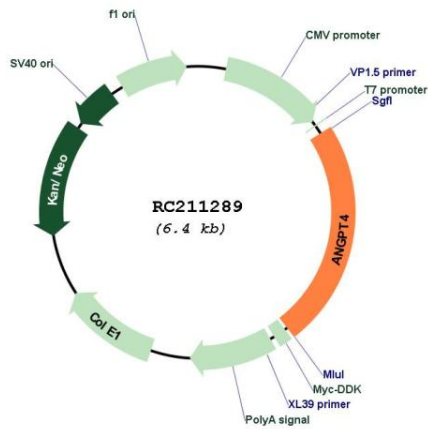
Cytogenetics: 20p13

Protein Families: Druggable Genome, Secreted Protein

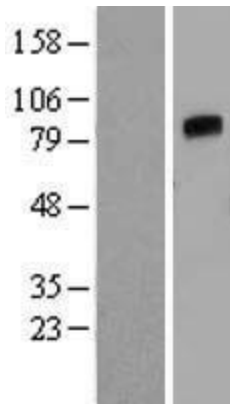
MW: 56.8 kDa

Gene Summary: Angiotensins are proteins with important roles in vascular development and angiogenesis. All angiotensins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The mechanism by which they contribute to angiogenesis is thought to involve regulation of endothelial cell interactions with supporting perivascular cells. The protein encoded by this gene functions as an agonist and is an angiotensin. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211289



Western blot validation of overexpression lysate (Cat# [LY414259]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).