

## Product datasheet for **RG200321**

### Angiotensin like 7 (ANGPTL7) (NM\_021146) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angiotensin like 7 (ANGPTL7) (NM_021146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiotensin like 7
Synonyms:	AngX; CDT6; dj647M16.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200321 representing NM_021146 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAAAAAGCCTCTCTCAGCTGTGACCTGGCTCTGCATTTTCATCGTGGCCTTTGTCAGCCACCCAG  
CGTGGCTGCAGAAGCTCTCTAAGCACAAGACACCAGCACAGCTCAAAGCGGCCAACTGCTGTGA  
GGAGGTGAAGGAGCTCAAGGCCAAGTTGCCAACCTTAGCAGCCTGCTGAGTGAAGTGAACAAGAAGCAG  
GAGAGGGACTGGTTCAGCTGGTTCATGCAGGTGATGGAGCTGGAGAGCAACAGCAAGCGCATGGAGTCGC  
GGCTCACAGATGCTGAGAGCAAGTACTCCGAGATGAACAACCAAAATTGACATCATGCAGTGCAGGCAGC  
ACAGACGGTCACTCAGACCTCCGAGATGCCATCTACGACTGCTCTTCCCTCTACCAGAAGAACTACCGC  
ATCTCTGGAGTGTATAAGCTTCCCTCTGATGACTTCTGGGCAGCCCTGAACTGGAGGTGTTCTGTGACA  
TGGAGACTTCAGGCGGAGGCTGGACCATCATCCAGAGACGAAAAAGTGGCCTTGTCTCCTTCTACCGGGA  
CTGGAAGCAGTACAAGCAGGGCTTTGGCAGCATCCGTGGGGACTTCTGGCTGGGGAACGAACACATCCAC  
CGGCTCTCCAGACAGCCAACCCGGCTGCGTGTAGAGATGGAGGACTGGGAGGGCAACCTGCGCTACGCTG  
AGTATAGCCACTTGTGTTGGGCAATGAACTCAACAGCTATCGCCTTCTCTGGGAACTACACTGGCAA  
TGTGGGAAACGACGCCCTCCAGTATCATAACAACACAGCCTTTCAGCACCAGGACAAGGACAATGACAAC  
TGCTTGGACAAGTGTGCACAGCTCCGCAAGGTGGCTACTGGTACAAGTGCAGACTCCAACCTCA  
ATGGAGTGTACTACCGCCTGGGTGAGCACAATAAGCACCTGGATGGCATCACCTGGTATGGCTGGCATGG  
ATCTACCTACTCCCTCAAACGGGTGGAGATGAAAATCCGCCAGAACTTCAAGCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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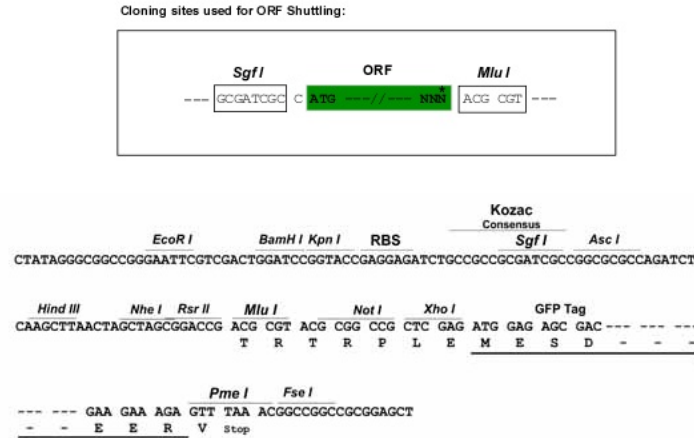
**Protein Sequence:** >RG200321 representing NM\_021146  
 Red=Cloning site Green=Tags(s)

MLKKPLSAVTWLCIFIVAFVSHPAWLQKLSKHKTPAQPQLKAANCCEEVKELKAQVANLSSLLSELNKKQ  
 ERDWSVVMQVMELESNSKRMSRLTDAESKYSEMNNQIDIMQLQAAQTVTQTSADAIYDCSSLYQKNYR  
 ISGVYKLPDDFLGSPELEVFCDMETSGGGWTIIQRRKSGLVSFYRDWKQYKQFGSIRGDFWLGNHIIH  
 RLSRQPTRLRVEMEDWEGNLRVYAEYSHFVLGNELNSYRFLFNGNYTGNVGNLALQYHNNTAFSTKDKDNDN  
 CLDKCAQLRKGYYWNCCTDSNLNGVYYRLGEHNKHLDGITWYGWHGSTYSLKRVEMKIRPEDFKP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021146

**ORF Size:** 1038 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\\_021146.4](#)

**RefSeq Size:** 2255 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 10218

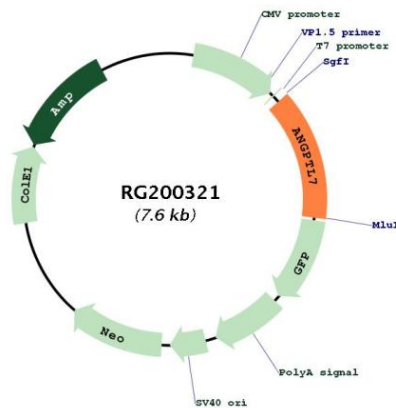
**UniProt ID:** [O43827](#)

**Cytogenetics:** 1p36.22

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:** Has a role in the formation and organization of the extracellular matrix. In the eye, it functions as a mediator of dexamethasone-induced matrix deposition in the trabecular meshwork, the tissue responsible for the outflow of the ocular aqueous humor and for the maintenance of intraocular pressure (PubMed:21199193). Is a negative regulator of angiogenesis in the cornea, and plays a major role in maintaining corneal avascularity and transparency (PubMed:25622036).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG200321