

## Product datasheet for **MR200967**

### Ang (NM\_007447) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ang (NM\_007447) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ang  
**Synonyms:** AI385586; An; Ang1; Rn; Rnase5; Rnase5a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200967 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGATAAGCCAGGCCCGTTGTTCTTGATCTTCGTGCTGGTCTGGTTGTGATCCCTCCCACTCTGG  
CTCAGGATGACTCCAGGTACACAAAATTCCTGACTCAGCACCATGACGCCAAGCCAAAGGCCGGGACGA  
CAGATACTGTGAACGTATGATGAAGAGAAGAAGCCTAACCTCACCTGCAAAGATGTCAACACCTTTATC  
CATGGCAACAAGAGCAACATCAAGGCCATCTGTGGAGCGAATGGAAGCCCTTACAGAGAAAACCTTAAGAA  
TGAGCAAGTCTCCCTCCAGGTCACCACTTGAAGCACACAGGAGGTCTCCCCGGCCTCCATGCCAGTA  
CCGAGCCTCTGCAGGGTTCAGACATGTTGTTATTGCCTGTGAGAAATGGCTTGCCGGTCCACTTCGATGAG  
TCATTTTTCAGTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200967 protein sequence  
Red=Cloning site Green=Tags(s)  
MAISPGPLFLIFVLGLVVIPPTLAQDDSRYSKFLTQHDAKPKGRDDRYCERMMKRRSLTSPCKDVNTFI  
HGNKSNIAICGANGSPYRENLRMSKSPFQVTTCKHTGGSPRPPCQYRASAGFRHVVIACENGLPVHFDE  
SFFSL

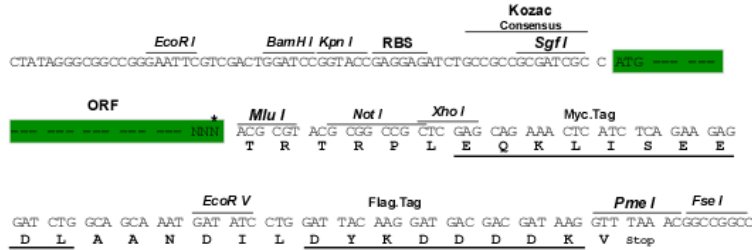
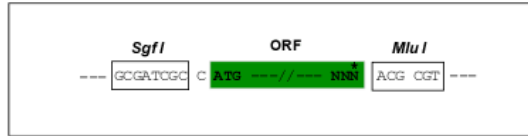
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007447

**ORF Size:** 438 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\\_007447.2](#), [NP\\_031473.1](#)
**RefSeq Size:** 1113 bp

**RefSeq ORF:** 438 bp

**Locus ID:** 11727

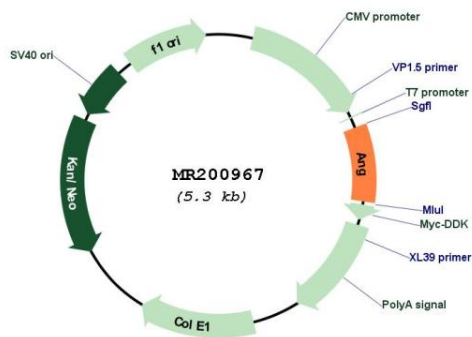
**UniProt ID:** [P21570](#)

**Cytogenetics:** 14 26.37 cM

**MW:** 16.2 kDa

**Gene Summary:** This gene encodes a member of the pancreatic ribonuclease A superfamily and is a potent inducer of neovascularization. The encoded protein is a secreted multifunctional tRNA-specific ribonuclease that promotes angiogenesis in response to angiogenic stimuli such as hypoxia, mediates stress-induced translational repression by cleaving cellular tRNAs, stimulates cell proliferation by mediating rRNA transcription in prostate cancer cells, and is involved in neurite pathfinding. This gene resides in a cluster of highly related genes. It shares dual promoters and 5' exons with the ribonuclease, RNase A family 4 gene. Two alternatively spliced variants, with different 5' exons but the same coding exon, have been identified. Multiple pseudogenes have been found for this gene. [provided by RefSeq, Jun 2009]

**Product images:**



Circular map for MR200967