

Product datasheet for **MR222684**

Ang (NM_001161731) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ang (NM_001161731) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ang
Synonyms: AI385586; An; Ang1; Rn; Rnase5; Rnase5a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR222684 representing NM_001161731
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGATAAGCCAGGCCCGTTGTTCTTGATCTTCGTGCTGGGCTGGTTGTGATCCCTCCCACTCTGG
CTCAGGATGACTCCAGGTACACAAAATCTGACTCAGCACCATGACGCCAAGCCAAAGGGCCGGGACGA
CAGATACTGTGAACGTATGATGAAGAGAAGAAGCCTAACCTCACCTGCAAAGATGTCAACACCTTTATC
CATGGCAACAAGAGCAACATCAAGGCCATCTGTGGAGCGAATGGAAGCCCTTACAGAGAAAACTAAGAA
TGAGCAAGTCTCCCTCCAGGTACCACTTGAAGCACACAGGAGGGTCTCCCGACCTCCATGCCAGTA
CCGAGCCTCTGCAGGGTTCAGACATGTTGTTATTGCTGTGAGAAATGGTTTGCTGTCCACTTCGATGAG
TCGTTTTTCAGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222684 representing NM_001161731
Red=Cloning site Green=Tags(s)
MAISPGPLFLIFVLGLVVIPPTLAQDDSRVTKFLTQHDAKPKGRDDRYCERMMKRRSLTSPCKDVNTFI
HGNKSNIAICGANGSPYRENLRMSKSPFQVTTCKHTGGSPRPPCQYRASAGFRHVVIACENGLPVHFDE
SFFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

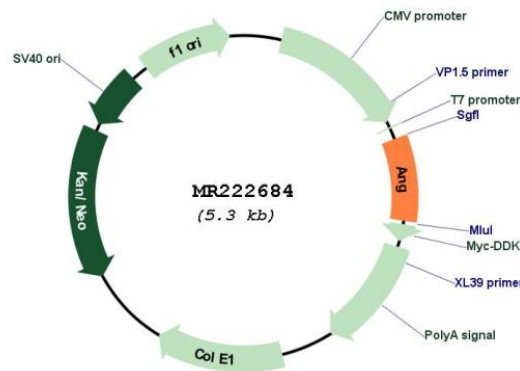


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001161731

ORF Size: 435 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:	<ol style="list-style-type: none">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:	<u>NM_001161731.2, NP_001155203.1</u>
RefSeq Size:	816 bp
RefSeq ORF:	438 bp
Locus ID:	11727
UniProt ID:	<u>P21570</u>
Cytogenetics:	14 26.37 cM
MW:	16.7 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 angiogenetic 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]