

Product datasheet for **MC205895**

Ang (NM_007447) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ang (NM_007447) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ang
Synonyms: AI385586; An; Ang1; Rn; Rnase5; Rnase5a
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC055355
CCTGTCTCCAGGAGCACGACGCTAGACACATCCCAGTCGGAGGAAAGCTGGCCAGCTTTGGAATCTCTG
TTGGAAGAGATGGCGATAAGCCCAGGCCGTTGTTCTTGATCTTCGTGCTGGGTCTGGTTGTGATCCCTC
CCACTCTGGCTCAGGATGACTCCAGGTACACAAAATTCCTGACTCAGCACCATGACGCCAAGCCAAAGGG
CCGGGACGACAGATACTGTGAACGTATGATGAAGAGAAGAAGCCTAACCTCACCTGCAAAGATGTCAAC
ACCTTTATCCATGGCAACAAGAGCAACATCAAGGCCATCTGTGGAGCGAATGGAAGCCCTTACAGAGAAA
ACTTAAGAATGAGCAAGTCTCCCTCCAGGTCACCACTTGCAAGCACACAGGAGGGTCTCCCGGCTCC
ATGCCAGTACCGAGCCTCTGCAGGGTTCAGACATGTTGTTATTGCCTGTGAGAATGGCTTGCCGGTCCAC
TTCGATGAGTCATTTTTTCAGTCTATAGTCAGCAGGCCCTGGCACAGACCTAGCTATGTTTTCTTTTTAT
CTCCCCTCATAGCCCAGAACACTGGTTCAGCGTTCATTGTGAGGGCCAGAAAAACGAACCTATCTAAAA
CATATGTCTCCTGATTTGCAATGCACAGAAATAAAGATGTCTCAAAGCCAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007447

Insert Size: 438 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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: [BC055355](#), [AAH55355](#)

RefSeq Size: 695 bp

RefSeq ORF: 438 bp

Locus ID: 11727

UniProt ID: [P21570](#)

Cytogenetics: 14 26.37 cM

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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.