

## Product datasheet for **MR230243**

### Angpt1 (NM\_001286062) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angpt1 (NM_001286062) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Angpt1
Synonyms:	1110046O21Rik; an; Ang; Ang-1; Ang1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230243 representing NM\_001286062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACAGTTTTCTTTCTTTTCATTCTTCGCTGCCATTCTGACTCACATAGGGTGCAGCAACCAGCGCC  
 GAAATCCAGAAAACGGAGGGAGAAGATATAACCGATTCAACATGGGCAATGTGCCTACACTTTCTTCT  
 TCCAGAACACGACGGAACTGCCGTGAGAGTGCAGACAGCAGTACAACCAACGCTCTGCAAAGGGAT  
 GCTCCACACGTGGAGCCGGATTTCTCTTCCAGAACTTCAGCATCTGGAGCATGTGATGGAAAATTATA  
 CTCAGTGGCTGCAAAAACCTTGAATACATTGTGAAAAATGAAGTCGGAGATGGCCAGATACAACA  
 GAATGCTGTTCAAAACCACCGCCACCATGCTTGAGATAGGAACAGTCTTTATCTCAGACTGCAGAG  
 CAGACCCGAAAGCTGACAGATGTTGAGACCCAGGTAATAACCAACATCCCGACTTGAATACAACCTGC  
 TAGAGAATTCATTATCAACATACAAGCTAGAGAAGCAACTTCTCCAACAGACAAATGAAATCTGAAGAT  
 TCACGAAAAAACAGTTTACTAGAGCACAAAATCTTAGAATGGAGGGAAAAACAAAAGAAGATTGGAC  
 ACCTTGAAGGAGGAGAAAAGAAAACCTTCAAGGCTTGGTTTCTCGTCAGACATTCATCATCCAGGAGTTGG  
 AGAAGCAACTTAGTAGAGCTACCAACAACAGCATCCTGCAGAAGCAACAACCTGGAGCTCATGGACAC  
 AGTTCATAACCTTATCAGCCTTTCAGCTAAAGAAGTTTGGCTAAAGGGAGGAAAAAGAGAAGAAGAGAAA  
 CCATTTGAGACTGTGCAGATGTATCAAGCTGGTTTTAATAAAAGTGGAACTACACTATTTATTTTA  
 ATAATATGCCAGAACCAAAAAGGTATTTTGAATATGGATGTGAATGGGGAGGTTGGACAGTAATACA  
 ACACCGGGAAGATGGAAGCCTGGATTTCCAGAGGGGCTGGAAGGAGTAAAAATGGGTTTGGGAATCCC  
 TCTGGTGAATATTGGCTTGGGAACGAGTTCATTTTGAATAACCAAGTACAGAGGCAGTACATGCTGAGGA  
 TTGAGCTGATGGACTGGGAAGGGAACCGAGCCTACTCACAGTACGACAGATTCACATAGGAAATGAAAA  
 GCAGAACTATAGGTTATATTTAAAAGTACACAGGGACAGCAGGCAAAACAGAGCAGCTTGATCTTACAC  
 GGTGCCGATTTACGACGAAGGATGCTGATAACGACAACGTATGTGCAATGCGCTCTCATGCTAACAG  
 GAGGTTGGTGGTTCGATGCCTGTGGCCCTTCCAATCTAAATGGAATGTTCTACACTGCGGGACAAAATCA  
 TGGAAAACCTGAATGGGATAAAGTGGCACTACTTCAAAGGGCCAGTTACTCCTTACGTTCCACCACCATG  
 ATGATCCGGCCCTTGACTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230243 representing NM\_001286062  
 Red=Cloning site Green=Tags(s)

MTVFLSFAFFAAILTHIGCSNQRNPENGGRRYNRIQHGQCAYTFILPEHDGNCRESTATEQYNTNALQRD  
 APHVEPDFSSQKLQHLEHVMENYTQWLQKLENYIVENMKSEMAQIQQNAVQNHTATMLEIGTSLLSQTAE  
 QTRKLDVETQVLNQTSLREIQLENSLSTYKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELD  
 TLKEEKENLQGLVSRQTFIIQELEKQLSRATNNNSILQKQLELMDTVHNLISLCTKEVLLKGGKREEEK  
 PFRDCADVYQAGFNKSGIYTIYFNNMPEPKVFCNMDVNGGGWTVIQHREDGSLDFQRGWKEYKMGFGNP  
 SGEYWLGNEFIIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLYLKHTGTAGKQSSLILH  
 GADFSTKDADNDNCMKCALMLTGGWFDACGPSNLNGMFYTAGQNHGKLNIGIKWHYFKGPSYSLRSTTM  
 MIRPLDF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

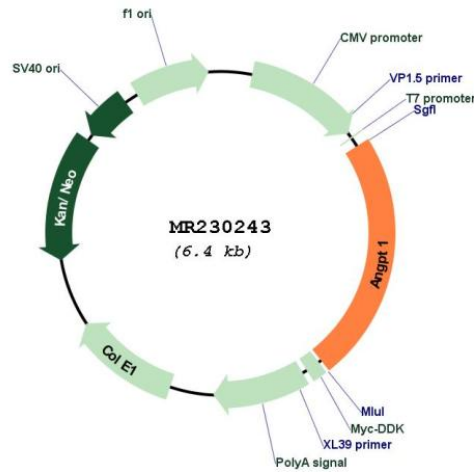
Sgfl-Mlul

## Cloning Scheme:

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


**ACCN:** NM\_001286062

**ORF Size:** 1491 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\\_001286062.1](#), [NP\\_001272991.1](#)

**RefSeq Size:** 4313 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 11600

**Cytogenetics:** 15 16.69 cM

**MW:** 57.9 kDa

**Gene Summary:** This gene encodes a secreted glycoprotein that belongs to the angiopoietin family of vascular growth factors. The encoded protein is a ligand in the vascular tyrosine kinase signaling pathway and regulates the formation and stabilization of blood vessels. This protein also functions in striated muscles by promoting proliferation, migration and differentiation of skeletal myoblasts and plays an essential role in the vascular response to tissue injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]