

Product datasheet for **MR207606**

BC050099 (BC050099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	BC050099
Synonyms:	AA408604; cea9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR207606 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGTATCCTCTGAGCTTCTCAGCAATGGGTGGACCTCCTGGCAAAGGGTTCTGCTCACAGCCTCCC
 TCTTAACCTGCTGGCTCTTGCCCATCACTGCCGAGTCACCATCGAATCCGTACCAACCAAATTGGTTGA
 AGGAGAAAAATGTTCTTCTACGAGTGGACAATCTGCCAGAGAATCTTCGAGTCTTTGTCTGGTATAGAGGG
 GTGACAGACATGAGCCTCGGAATTGCATTGTATCACTTGACTATAGCACAAGTGTGACAGGACCTAAGC
 ACAGTGGTAGAGACATTGTACAGAAACGGGTCCCTGTGGATCCAAAATGTCACCCGGGAAGACACAGG
 ATATTACACTCTTCAAACCATAAAGTAAAAATGGAAAAGTGGTATCAAATACATCCATATTCCTTCAGGTG
 AACTCCTCTCTTTTCATCTGTGGGCGCCCTTCTCCACCTGCACTCCTCACTATTGAATCAGTGCCAGCCA
 GCGTTGCTGAAGGGGAAGCGTTCTTCTCCTGTCCACAGTCTTCAGATAATCTTCAATCGCTTCTCTG
 GTACAAAGGGTTGACTGTGTTAACAAGGTTGAGATTGCTCGGCACAGAACAGTCAAGAATTCAAGTGAA
 ATGGGCGCTGCCTACAGCGGTAGAGAGATAGTGTACAGCAATGGATCTCTGCTGCTCCAGAATGTACCT
 GGGAAGACACAGGATTCTACACCTACAAATTGTGAACAGATATTGAAAATGGAATTAGCACACATTTA
 CCTTCAGGTGGACACCTCCCTTTCTCTGCTGTGACGATTCAACTCTGTCCAAGTGGATCAATCCA
 GTGCCACCGCATGCTGCTGAAGGGGAAGGGTTCTTCTCCAGGTCCATAATCTGCCAGAAGATGTGCAA
 CCTTTTGTGGTACAAAGCGTCTATAGCACTCAGAGCTTTAAAAATTACAGAGTATAGCATAGTGACAGA
 GTCTCTCATCAATGGCTATGCACACAGTGAAGAGAGATATTGTTTCATCAATGGATCCCTGCTGCTCCAG
 GATGTCACTGAGAAAGACTCTGGCTTCTACACACTAGTAACAATCGACAGCAATGTGAAAGTTGAAACAG
 CCCATGTGCAAGTCAATGTGAACAAGCTTGTGACACAGCCTGTGATGAGAGTACGGACAGCACAGTTTCG
 AATACAGGGCTCAGTGGTCTTCACTTGCTTCTCAGACAACACTGGGGTCTCCATCCGTTGGCTCTTCAAC
 AATCAGAATCTGCAGCTCACAGAGAGGATGACCCTGTCCCCATCAAAGTGCCAACTCAGGATACATACTG
 TGAGGAAGGAGGATGCTGGAGAGTATCAATGTGAGGCCTTCAACCCAGTCAGCTCAAAGACCACTCTCCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

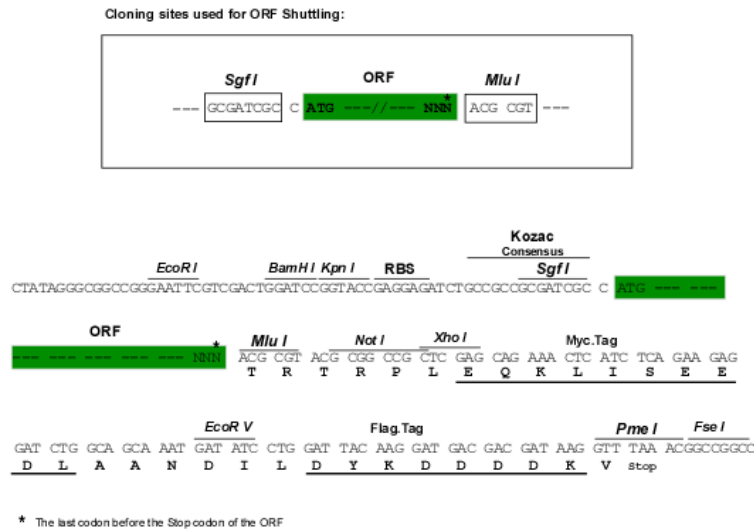
Protein Sequence: >MR207606 protein sequence
 Red=Cloning site Green=Tags(s)

MEVSSSELLSNGWTSQVRVLLTASLLTCWLLPITAGVTIESVPPKLVEGENVLLRVDNLPENLRVFWYRG
 VTDMSLGIALYSLDYSTSVTPKHSGRETLYRNGSLWIQNVTRDTGYTTLQTISKNGKVVSNSTIFLQV
 NSSLFICGRPSPPALLTIESVPASVAEGGSVLLLVHSLPDNLQSLWYKGLTVFNKVEIARHRTVKNSS
 MGPAYSGREIVYSNGSLLLQNVTWEDTGFTYLQIVNRYWKELAHYILQVDTSLSSCCDDFNSVQLRINP
 VPPHAAEGERVLLQVHNLPELVQTFWYKGVYSTQSFKITEYSIVTESLINGYHSGREILFINGSLLLQ
 DVTEKDSGFYTLVTIDSNVKVETAHVQVNVNKLVTQPVMRVTDSTVRIQGSVVFCTCFSDNTGVSIRWLFN
 NQNLQLTERMTLSPSKQLRIHTVRKEDAGEYQCEAFNPVSSKTSLPVRLTMVNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC050099

ORF Size: 1425 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC050099](#), [AAH50099](#)

RefSeq Size: 1786 bp

RefSeq ORF: 1427 bp

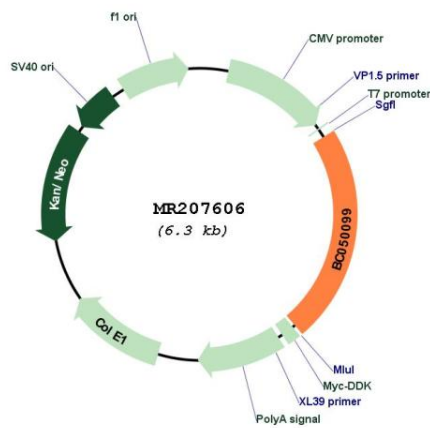
Locus ID: 243862

Cytogenetics: 7 A3

MW: 53.2 kDa

Gene Summary: May have an angiogenic function during early placental development. Binds to cell-surface heparan sulfate proteoglycans (HSPGs), and stimulates secretion of the proangiogenic factors VEGFA and TGFB from uterine dendritic cells and natural killer cells. Also induces endothelial tube formation in vitro.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207606