

## Product datasheet for **MR209734**

### **Tie1 (BC060182) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tie1 (BC060182) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tie1
Synonyms:	D430008P04Rik; TIE; tie-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR209734 representing BC060182  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTCTGGTGGGGATCCTCTTTGCTGCTCCCACTCTTTTCTTGGCCTCTCATGTTGGTGCCTGTTG  
ACTTAACATTGCTGGCCAACTGCGCATCACAGACCCCAAGCGTTTCTTCTGACCTGCGTGTCTGGTGA  
GGCCGGAGCAGGGAGGAGCTCGGACCCGCCCTGCTGCTGGAGAAGGATGATCGCATCGTGCACACCTTC  
CCGCTGGGCAGCCCTGTACCTGGCACGAACGGTTCTCACCAGGTACGCTGAGGGGCTTCTCCAAGC  
CCTCGGATTTGGTAGGCGTCTTCTCTGTGTGGGTGGTGTGGCGCGGGCGCACTCGAGTTCTCTATGT  
GCACAACAGCCCAGGGGCACACCTGTTTCCAGACAAGGTACACACACGGTGAACAAAGGTGACTGCT  
GTGCTTTCTGCCATGTGCACAAGGAAAAGCAGACTGACGTGATCTGGAAGAACAACGGATCCTACTTCA  
ATACCCTAGACTGGCAAGAGGCCGATGACGGGCGTTTTCAACTGCAGCTCCAAAATGTACAGCCACCATC  
AAGTGGCATCTACAGTGCACCTACCTAGAGGCCAGCCCTGGGCAGTGCCTTCTTTCGGCTCATCGTG  
CGAGGCTGTGGGCTGGACGCTGGGGGCCAGGATGTGTCAAGGATTGCCAGGCTGCCTGCATGGAGGTG  
TCTGTCTGACCATGATGGCGAATGTGTGTGTCCCCAGGATTCCTGGACCCCGCTGTGAGCAGGCCTG  
CAGGGAGGGTCTTTTGGACAGAGCTGTGAGAACAGTCCCAGGCACAGCAGGTTGTAGAGGTCTCACC  
TTCTGCCTCCCGGATCCCTATGGCTGTTCTGTGGATCTGGCTGGAGAGGAAGCCAGTGCAGGAAGCAT  
GTGCACCTGGTCAATTTGGGGCTGATTGTGCGCTCCAGTGCAGTGTCAAATGGTGGCACTTGTGACCG  
GTTCAGCGGCTGCGTCTGCCCTCTGGGTGGCATGGAGTCCACTGTGAAAAGTCAAGCCGATCCCCAG  
ATCCTCAGTATGGCCACAGAGGTGGAGTTCAACATAGGGACGATGCCCGGATCAACTGTGCAGCTGCC  
GGATCCCTTCCAGTGCGGGGCAGCATGAAACTTCGCAAGCCAGATGGCACCATGCTTTTGTCTACCAA  
AGTCATTGTGGAGCCAGACAGGACCACAGCAGAGTTTGAAGTGCCAGTTTGACTCTTGGGGACAGTGGG  
TTCTGGGAATGCCCGTATCGACTTCTGGTGGCCAAGACAGCCGGCGCTTCAAGGTCAATGTCAAAGTAC  
CCCCAGTGCCTTTGACTGCACCTCGACTCCTGGCCAAGCAGAGCCGTGAGCTTGTGGTCTCCCACTGGT  
CTCCTTTAGTGGGGATGGACCCATCTCCTGTCCGCCTGCACTACCGGCCCCAGGACAGCAGATTGCC  
TGGTCTGCCATTGTGGTGGATCCCAGTGAAGTGTGACATTAATGAACCTGAAGCCAAAGACAGGATACA  
ATGTCCGAGTGCAGCTGAGCCGGCCAGGGGAAGGAGGAGAAGGAGGCTGGGGACCTTCTGCCCTTATGAC  
TACTGACTGTCTGAGCCTTTGCTGCAGCCCTGGCTAGAGAGCTGGCACGTGGAGGGTCTGACAGGCTC  
CGTGTGAGCTGGTCTCTACCCTCGGTGCCACTGTCCGGTGTGGTTTCTGCTGCGCCTGTGGGATGGGG  
CCCGGGGACAGGAGGGGGGAGAACATCTCATTCCCCAGGCCCGCACTGCCCTCCTGACTGGACTCAC  
GCCGGGACCCACTACCAGCTGGATGTGCGACTGTATCACTGTACCCTCCTGGGCCCTGCCTCACCCCT  
GCGCATGTGCACCTGCCCCAGCGGTAGGCCACTCTGGGAAGGATGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209734 representing BC060182  
 Red=Cloning site Green=Tags(s)

MVWVGSSLLLPTLFLASHV GASVDLTLLANLRITDPQRFFLTCVSGEAGAGRSSDPPLLEKDDRIVRTF  
 PPGQPLYLARNGSHQVTLRGFSKPSDLVGVFSCVGGAGARRTRVLYVHNSPGAHLFPDKVTHTVNGGDTA  
 VLSAHVHKEKQTDVIWKNNGSYFNTLDWQEADDGRFQLQLQNVQPPSSGIYSATYLEASPLGSAFFRLIV  
 RGCGAGRWGPGCVKDCPGCLHGGVCHDHDGECVCPGFTGTRCEQACREGRFGQSCQEQCPCGTAGCRGLT  
 FCLPDPYGCSCGSGWRGSQCQEACAPGHFGADCRLLQCQCQNGGTCDRFSGCVCPSGWHGVHCEKSDRIPQ  
 ILSMATEVEFNIGTMPRINCAAAGNPFVVRGSMKLRKPDGTMLLSTKVIIVEPDRTTAEFEVPSLTLGDSG  
 FWECRVSTSGGQDSRRFKVNVKVPVPLTAPRLLAKQSRQLVVSPLVSFSGDGPISVRLHYRPQDSTIA  
 WSAIVVDPSENVTLMNLKPKTGYNVRVQLSRPGE GEGGWGPSALMTTDCPEPLLQPWLESWHVEGPDRL  
 RVSWSLPSVPLSGDGFLRLWDGARGQERRENISFPQARTALLTGLTPGTHYQLDVRLYHCTLLGPASPP  
 AHVHLPPSGRPTLGRMG

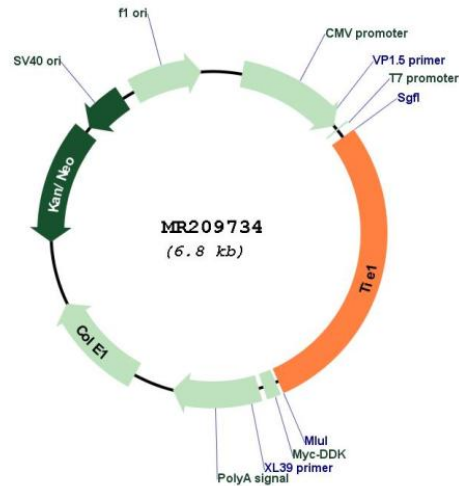
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** BC060182

**ORF Size:** 1941 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** [BC060182.1](#)

**RefSeq Size:** 4259 bp

**RefSeq ORF:** 1943 bp

**Locus ID:** 21846

**Cytogenetics:** 4 54.67 cM

**MW:** 156.1 kDa

**Gene Summary:** Transmembrane tyrosine-protein kinase that may modulate TEK/TIE2 activity and contribute to the regulation of angiogenesis.[UniProtKB/Swiss-Prot Function]