

## Product datasheet for **RR208009**

### Tie1 (NM\_053545) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tie1 (NM\_053545) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tie1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208009 representing NM\_053545  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGTCTGGTGGGGATCCCCTTTCCTGCTCCCCATTCTTTTTCTGGCCTCTCATGTTGGTGCATCCGTGG  
 ATTTAACACTGCTGGCCAATCTGCGTATACCCGAACCCAGCGTTTCTTCTGACCTGTGTGCTGTGGTGA  
 GGCGGGAGCAGGGAGGAGCTCCGACGTCTGGGGCCCGCCCTGCTGCTGAAAAGGATGATCGCATAGTG  
 CGCACCTTCCACCCGGGAGCCCTGCACCTCACTCGCAACGGTTCACACCAGGTCACGCTGCGGGGCT  
 TCTCCAAGCCCTCGGATTTAGTAGGCGTCTTCTCCTGCGTGGGTGGAGCTGGCACGAGGCCACTCGAGT  
 CCTCTATGTGCACAACAGCCCGGGGCACACCTGTTCCAGACAAGGTCACACACCGGTGAACAAAGGT  
 GATACCGTGTGCTTTCTGCACGAGTGCACAAGGAAAAGCAGACTGATGTGATTTGAAGAACAATGGAT  
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 GCCACCATCGAGTGGCATCTACAGCGCCACCTACCTAGAGGCCAGCCCTTGGGCAGTGCCTTCTTTCGG  
 CTCATCGTGCGAGGCTGTGAGGCTGGACGCTGGGGCCGGGATGTGTCAAGGATTGCCAGGCTGCCTGC  
 ATGGAGGTGTCTGTATGACCACGATGGCGAATGTGTGTGCCCCCTGGATTCACTGGCACCCGCTGTGA  
 GCAGGCCCTGCAGAGAAGGTCGTTTTGGACAGAGCTGCCAGGAACAGTGCCAGGCACAGCAGGCTGTCCG  
 GGTCTCACCTTCTGCCTCCAGATCCCTATGGCTGTTCTTGTGGATCTGGCTGGAGGGGAAGCCAGTGCC  
 AGGAAGCATGTGCACCTGGTCATTTGGGGCAGATTGTCGCTCCAGTGTGAGTGTCAAAATGGTGGTAC  
 TTGTGATCGGTTCCAGCGGCTGCGTCTGCCCCCTCCGGGTGGCATGGAGTCCACTGTGAAAAGTCAGACCGG  
 ATCCCCAGATCCTCAATGTGGCCACAGAGCTGGAGTTCAACTTAGGGACAATGCCCCGGATCAACTGTG  
 CAGCTGCCGGGAATCCCTCCAGTACGGGGCAGCATGGAACCTCCGAAGCCAGACGGCACCATGCTCCT  
 GTCTACAAAGCCATTGTGGAGCCAGATAGGACCACAGCTGAGTTCGAGGTGCCCGTTTGACTCTTGGG  
 GACAGCGGTTCTGGGAATGCCGTGTATCGACGCTGTTGGCCAAAGATAGCCGGCGCTTCAAGTCAATG  
 TCAAAGTACCCCAAGTGCCTCTGACTGCACCTCGGCTCCTGGCCAAGCAGAGCCGCCAGCTTGTGGTCTC  
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 ATGATTACCTGGTCTGCCATTGTGGTGGATCCCAGTGAGAATGTGACATTAATGAACCTGAAGCCAAGGA  
 CAGGATACAACGTTCCGGTGCAGCTGAGCCGCCAGGGGAAGGAGGAGAAGGAGCCTGGGGTCTTCGAC  
 TCTCATGACTACGGACTGTCTGAGCCTTGTGTCAGCCGTGGGTAGAGAGCTGGAACGTGGAGGGTCTC



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GACAGGCTACGGGTGAGCTGGTCTCTACCCTCGGTGCCACTGTCTGGGGATGGTTTCCTGCTGCGTCTGT  
 GGGATGGGGCCCGGGACAGGAGAGCGGGGAGAACATCTCATCCCCCAGGCCCGCACTGCCCTCCTGAC  
 TGGACTCACGCCTGGCACGCACTACCAACTGGATGTGCGGCTGTATCACTGCACCCTCCTGGGCCCTGCC  
 TCACCCTCTGCGCATGTGCACCTGCCCTCAGCGGGCCTCCAGCTCCCCGCCACCTCCGTGCCAGGGCC  
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 CGTCTACACTACCAAGAGTGACCTGTGGTCAATTTGGGGTCTCCTCTGGGAGATAGTGAGCCTTGGAGGC  
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 CTCGAAACTGTGATGATGAAGTGTACGAGCTGATCGGGCAGTGTGCGGGACCGTCCCTATGAGCGCCC  
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 CTGTTTGAAGCTTACCTATGCAGGCATCGATGCCACAGCTGAGGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208009 representing NM\_053545  
 Red=Cloning site Green=Tags(s)

MVWWSPLPILFLASHV GASVDL TLLANLRIT EPQRFFLTCVSGEAGAGRSSDVWGP LLLLEKDDRIV  
 RTFPPGQPLHL TRNGSHQVTLRGF SKPSDLVGVFSCVGGAGTRRTRVLYVHNSPGAHLFPDKVTHTVNKG  
 DTAVL SARVHKEKQTDVIWKNNGSYFHTLDWHEAHDGRFQLQLQNVQPPSSGIYSATYLEASPLGSAFFR  
 LIVRGCEAGRWP GCVKDCPGCLHGGVCHDHDGECVPPGFTGTRCEQACREGRFGQSCQECPGTAGCR  
 GLTFCLPDPYGCSCGSGWRGSQCQEACAPGHFGADCR LQCQCQNGGTCDRFSGCVCPSGWHGVHCEKSDR  
 IPQILNVATELEFNLTGMPRINCAAAGNPFVVRGSMELRKP DGTMLLSTKAIVEPDRTTAEFEVPRLTG  
 DSGFWE CRVSTSGGQDSRRFKVNVKVPVPLTAPRLLAKQSRQLVVSPLVSFGDGPISVRLHYRPQDS  
 MITWSAIVVDPSENVTL MNLKPRTGYNVRVQLSRPGE GEGAWGPSTLMTDCPEPLLQPWVESWNVEGP  
 DRLRVSWSLPSVPLSGDGFLLRLWDGARGQERRENISSPQARTALLTGLTPGTHYQLDVRLYHCTLLGPA  
 SPSAHVHLPLSGPPAPRHLRAQLSDSEIRLMWQHPEAPP GPI SKYIVEIQVAGGSGDPQWMDVDKPEET  
 STTVRGLNASTRYLFRVRASVQGLGDSNTVEETTLGNGLQSASPVQESRVAEDGLDQQLVLA VVGSVSA  
 TCLTIL AALLALVCIRRSCLHRRHTFTYQSGSGEETILQFSSGTLTLTRRPKQPEPLSYPVLEWEDITF  
 EDLIGEGNFGQVIRAMIKKDG LKMNAAIKMLKEYASENDHRDFAGELEVLCKLGHHPNIINLLGACENRG  
 YLYIAIEYAPYGNLLDFLRKSRVLETDPAFAREHGTASTLSSRQLLRFASDAANGM QYLSEKQFIHRDLA  
 ARNVLVGENLASKIADFGLSRGEVYVKKTMGRLPVRWMAIESL NYSVYTTKSDVWSFGVLLWEIVSLGG  
 TPYCGMTC AELYEKLPQGYRMEQPRNCDDEVYELMRQCWRDRPYERPPFAQIALQLGRMLEARKAYNMS  
 LFENFTYAGIDATAEEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

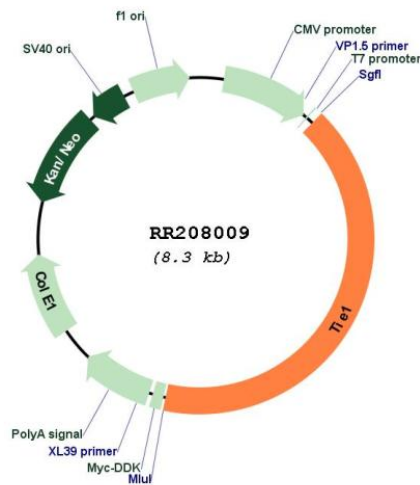
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053545

ORF Size: 3411 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\\_053545.1](#), [NP\\_445997.1](#)

**RefSeq Size:** 3848 bp

**RefSeq ORF:** 3414 bp

**Locus ID:** 89806

**Cytogenetics:** 5q36

**MW:** 125.2 kDa

**Gene Summary:** essential for vascular development and remodeling in the embryo; may mediate maintenance and repair of the adult vascular system [RGD, Feb 2006]