

## Product datasheet for **RC600056**

### **TIE1 (NM\_005424) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TIE1 (NM_005424) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	TIE1
Synonyms:	JTK14; LMPHM11; TIE
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RC600056 representing leader sequence plus the extracellular domain region of NM\_005424

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG  
CGATCGCC

ATGGTCTGGCGGGTGCCCCCTTTCTTGCTCCCATCCTCTTCTGGCTTCTCATGTGGGCGCGGGCGGTGG  
ACCTGACGCTGCTGGCCAACTGCGGCTCACGGACCCCAAGCGCTTCTTCTGACTTGCCTGTCTGGGGA  
GGCCGGGGCGGGGAGGGGCTCGGACGCCTGGGGCCCGCCCTGCTGCTGGAGAAGGACGACCGTATCGTG  
CGCACCCCGCCGGGCCACCCCTGCGCCTGGCGCAACGGTTCGACCAGGTACGCTTCGCGGCTTCT  
CCAAGCCCTCGGACCTCGTGGCGTCTTCTGCTGCGTGGCGGTGCTGGGCGCGCGCACGCGCTCAT  
CTACGTGCACAACAGCCCTGGAGCCACCTGCTCCAGACAAGGTACACACACTGTGAACAAAGGTGAC  
ACCGCTGACTTTCTGCACGTGTGCACAAGGAGAAGCAGACAGACGTGATCTGGAAGAGCAACGGATCCT  
ACTTCTACACCCTGGACTGGCATGAAGCCAGGATGGGCGGTTCTGCTGACGCTCCAAATGTGCAGCC  
ACCATCGAGCGGATCTACAGTGCCACTTACTGGAAGCCAGCCCTGGGACGCGCCTTCTTTCGGCTC  
ATCGTGCGGGGTTGTGGGGCTGGGCGTGGGGCCAGGCTGTACCAAGGAGTGCACAGGTTGCCTACATG  
GAGGTGTCTGCCACGACCATGACGGCGAATGTGTATGCCCCCTGGCTTCACTGGCACCCGCTGTGAACA  
GGCCTGCAGAGAGGGCCGTTTTGGGCGAGAGTGCAGGAGCAGTGCACAGGATATCAGGCTGCCGGGGC  
CTCACCTTCTGCCTCCAGACCCCTATGGCTGCTTGTGGATCTGGCTGGAGAGGAAGCCAGTGCACAG  
AAGCTTGTGCCCTGGTCATTTTGGGGCTGATTGCCGACTCCAGTGCAGTGTGAGAATGGTGGCACTTG  
TGACCGGTTCAAGTGGTGTGTCTGCCCTCTGGGTGGCATGGAGTGCAGTGTGAGAAGTCAAGCCGATC  
CCCCAGTCCCTCAACATGGCCTCAGAAGTGGAGTTCAACTTAGAGACGATGCCCCGGATCAACTGTGTC  
CTGCAGGGAACCCCTTCCCGTGCGGGGCAGCATAGAGCTACGCAAGCCAGACGGCACTGTGCTCCTGTC  
CACCAAGGCCATTGTGGAGCCAGAGAAGACCACAGCTGAGTTCAGAGTGCACCCGCTTGGTTCTTGCAG  
AGTGGGTTCTGGGAGTGCCTGTGTCCACATCTGGCGCCAAGACAGCCGGCGCTTCAAGGTCAATGTGA  
AAGTGCACCCCGTGCCTGGCTGCACCTCGGCTCCTGACCAAGCAGAGCCGCCAGCTTGTGGTCTCCCC  
GCTGGTCTCGTTCTTGGGGATGGACCCATCTCCACTGTCCGCTGCACTACCGGCCAGGACAGTACC  
ATGGACTGGTTCGACCATGTGGTGGACCCAGTGAGAACGTGACGTTAATGAACCTGAGGCCAAAGACAG  
GATACAGTGTTCGTGTGCAGCTGAGCCGGCCAGGGGAAGGAGGAGAGGGGGCCTGGGGCCCTCCACCCCT  
CATGACCACAGACTGTCCTGAGCCTTTGTTGCAGCCGTGGTTGGAGGGCTGGCATGTGGAAGGCACTGAC  
CGGCTGCGAGTGAGCTGGTCTTGCCTTGGTGCACCGGGCCACTGGTGGGCGACGGTTTCTGCTGCGCC  
TGTGGGACGGGACACGGGGCAGGAGCGGCGGGAGAACGTCTATCCCCCAGGCCCGCACTGCCCTCCT  
GACGGGACTCACGCTGGCACCCACTACCAGCTGGATGTGCAGCTTACCCTGCACCCCTCCTGGGCCCCG  
GCCTCGCCCCCTGCACACGTGCTTCTGCCCCCAAGTGGGCTCCAGCCCCCGACACCTCCACGCCCAGG  
CCCTCTCAGACTCCGAGATCCAGCTGACATGGAAGCACCCGAGGCTCTGCCTGGGCAATATCCAAGTA  
CGTTGTGGAGGTGCAGGTGGCTGGGGGTGCAGGAGACCCACTGTGGATAGACGTGGACAGGCCTGAGGAG  
ACAAGCACCATCATCCGTGGCTCAACGCCAGCACGCGCTACCTTTCCGATGCGGGCCAGCATTACAG  
GGCTCGGGGACTGGAGCAACACAGTGAAGAGTCCACCTGGGCAACGGGCTGCAGGCTGAGGGCCAGT  
CCAAGAGAGCCGGGACAGCTGAAGAGGGCCTGGATCAG

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:** >RC600056 representing signal peptide plus the extracellular domain region of NM\_005424  
Red=Cloning sites Green= DDK and 6XHIS Tags

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MVWRVPPFLLPILFLASHVGAADVLTLLANLRLTDPQRFFLTCVSGEAGAGRGSDAWGPPLLEKDDRIV  
RTPPGPPLRLARNGSHQVTLRGFSKPSDLVGVFSCVGGAGARRTRVIYVHNSPGAHLDPKVTHTVNKGD  
TAVLSARVHKEKQTDVIWKSNGSYFYTLDWHEAQDGRFLLQLPNVQPPSSGIYSATYLEASPLGSAFFRL  
IVRGCGAGRWGPGCTKECPGCLHGGVCHDHDGECVCPGFTGTRCEQACREGRFGQSCQECPGISGCRG  
LTFCLPDPYGCSCGSGWRGSCQCQEACAPGHFGADCRLQCQCQNGGTCDRFSGCVCPSGWHGVHCEKSDRI  
PQILNMASELEFNLETMPRINCAAAGNPFVVRGSIELRKPDTVLLSTKAIVEPEKTTAEFEVPRVLVAD  
SGFWEQVSTSGGQDSRRFKVNVKVPVPLAAPRLLTKQSRQLVVSPLVSFSGDGPVSTVRLHYRPQDST  
MDWSTIVVDPSENVTLMNLRPKTGYSVRVQLSRPGEGGEGAWGPPTLMTTDCPEPLLQPWLEGWHVEGTD  
RLRVSWSLPLVPGLVGDGFLRLWDGTRGQERRENVSSPQARTALLTGLTPGTHYQLDVQLYHCTLLGP  
ASPPAHVLLPPSGPPAPRHLHAQALSDSEIQLTWKHPEALPGPISKYVVEVQVAGGADPLWIDVDRPEE  
TSTIIRGLNASTRYLFRMRASIQGLDWSNTVEESTLGNGLQAEQVQESRAAEEGLDQ
```

TRSGTRSGDYKDDDDKGSHHHHHH

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8117\\_g08.zip](https://cdn.origene.com/chromatograms/mk8117_g08.zip)

**Restriction Sites:** Sgfl-Mlul



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_005424.4, NP_005415.1</u>
<b>RefSeq Size:</b>	4000 bp
<b>RefSeq ORF:</b>	3417 bp
<b>Locus ID:</b>	7075
<b>UniProt ID:</b>	<u>P35590</u>
<b>Cytogenetics:</b>	1p34.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IG, FN3, EGF, EGF
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>MW:</b>	82.2 kDa
<b>Gene Summary:</b>	This gene encodes a member of the tyrosine protein kinase family. The encoded protein plays a critical role in angiogenesis and blood vessel stability by inhibiting angiopoietin 1 signaling through the endothelial receptor tyrosine kinase Tie2. Ectodomain cleavage of the encoded protein relieves inhibition of Tie2 and is mediated by multiple factors including vascular endothelial growth factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]