

## Product datasheet for **RC600057**

### **TIE2 (TEK) (NM\_000459) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TIE2 (TEK) (NM_000459) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	TIE2
Synonyms:	CD202B; GLC3E; TIE-2; TIE2; VMCM; VMCM1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC600057 representing leader sequence plus the extracellular domain region of NM\_000459

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

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG  
CGATCGCC

ATGGACTCTTTAGCCAGCTTAGTCTCTGTGGAGTCAGCTTGCTCCTTTCTGGAAGTGTGGAAGGTGCCA  
TGGACTTGATCTTGATCAATCCCTACCTCTTGATCTGATGCTGAAACATCTCTCACCTGCATTGCCTC  
TGGGTGGCGCCCCATGAGCCCATCACCATAGGAAGGGACTTTGAAGCCTTAATGAACCAGCACCAGGAT  
CCGCTGGAAGTTACTCAAGATGTGACCAGAGAATGGGCTAAAAAAGTTGTTTGAAGAGAGAAAAAGGCTA  
GTAAGATCAATGGTGCTTATTTCTGTGAAGGGCGAGTTCGAGGAGAGGCAATCAGGATACGAACCATGAA  
GATGCGTCAACAAGCTTCCTTCTACCAGCTACTTTAACTATGACTGTGGACAAGGGAGATAACGTGAAC  
ATATCTTTCAAAAAGGTATTGATTAAGAAGAAGATGCAGTGATTTACAAAAATGGTTCCTTCATCCATT  
CAGTGCCCGGCATGAAGTACCTGATATTCTAGAAGTACACCTGCCTCATGCTCAGCCCCAGGATGCTGG  
AGTGTAAGTCTCGCCAGGTATATAGGAGGAAACCTCTTACCTCGGCCTTACCAGGCTGATAGTCCGGAGA  
TGTGAAGCCCAGAAGTGGGGACCTGAATGCAACCATCTCTGTACTGCTTGTATGAACAATGGTGTCTGCC  
ATGAAGATACTGGAGAATGCATTTGCCCTCCTGGGTTTATGGGAAGGACGTGTGAGAAGGCTTGTGAACT  
GCACACGTTTGGCAGAAGTGTAAAGAAAGGTGCAGTGGACAAGAGGGATGCAAGTCTTATGTGTTCTGT  
CTCCCTGACCCCTATGGGTGTTCTGTGCCACAGGCTGGAAGGGTCTGCAGTGAATGAAGCATGCCACC  
CTGGTTTTTACGGCCAGATTGTAAGCTTAGGTGCAGCTGCAACAATGGGAGATGTGTGATCGTTCCA  
AGGATGTCTCTGCTCTCCAGGATGGCAGGGCTCCAGTGTGAGAGAGAAGGCATACCGAGGATGACCCCA  
AAGATAGTGGATTTGCCAGATCATATAAGTAAGTAACAGTGGTAAATTTAATCCCATTTGCAAAGCTTCTG  
GCTGGCCGCTACCTACTAATGAAGAAATGACCCTGGTGAAGCCGGATGGGACAGTGTCCATCCAAAAGA  
CTTTAACCATAACGGATCATTCTCAGTAGCCATATTCACCATCCACCGGATCCTCCCCCTGACTCAGGA  
GTTTGGTCTGCAGTGTGAACACAGTGGCTGGGATGGTGGAAAAGCCCTTCAACATTTCTGTTAAAGTTC  
TTCCAAAGCCCTGAATGCCCAAACGTGATTGACACTGGACATAACTTTGCTGTCATCAACATCAGCTC  
TGAGCCTTACTTTGGGGATGGACCAATCAAATCCAAGAAGCTTCTATACAAACCCGTTAATCACTATGAG  
GCTTGGCAACATATTCAAGTGACAAATGAGATTGTTACACTCAACTATTTGGAACCTCGGACAGAATATG  
AACTCTGTGTGCAACTGGTCCGTCGTGGAGAGGGTGGGAAGGGCATCCTGGACCTGTGAGACGCTTAC  
AACAGCTTCTATCGGACTCCCTCCTCAAGAGGTCTAAATCTCCTGCCTAAAAGTCAGACCACTCTAAAT  
TTGACCTGGCAACCAATATTTCCAAGCTCGGAAGATGACTTTTATGTTGAAGTGGAGAGAAGGTCTGTGC  
AAAAAAGTGATCAGCAGAATATTAAGTTCCAGGCAACTTGACTTCGGTGCTACTTAACAACCTACATCC  
CAGGGAGCAGTACGTGGTCCGAGCTAGAGTCAACACCAAGGCCAGGGGGAATGGAGTGAAGATCTCACT  
GCTTGGACCTTAGTGACATTCTTCTCCTCAACCAGAAAACATCAAGATTTCCAACATTACACACTCCT  
CAGCTGTGATTTCTTGGACAATATTGGATGGCTATTCTATTTCTTCTATTACTATCCGTTACAAGTTCA  
AGGCAAGAATGAAGACCAGCACGTTGATGTGAAGATAAAGAATGCCACCATCACTCAGTATCAGCTCAAG  
GGCCTAGAGCCTGAAACAGCATAACAGGTGGACATTTTGCAGAGAACAACATAGGGTCAAGCAACCCAG  
CCTTTTCTCATGAACTGGTGACCCTCCCAGAATCTCAAGCACAGCGGACCTCGGAGGGGAAGATGCT  
GCTT

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:** >RC600057 representing signal peptide plus the extracellular domain region of NM\_000459  
Red=Cloning sites Green= DDK and 6XHIS Tags

MDSLASLVLCGVSLLLSGTVEGAMDILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQD  
PLEVTQDVTREWAKKVVWKREKASKINGAYFCEGRVVRGEAIRITMKMRQQASFLPATLTMTVDKGDNVN  
ISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPQDAGVYSARYIGGNLFTSAFTRLIVRR  
CEAQKWGPECNHLCTACMNGVCHEDTGECICPPGFMGRGTCEKACELHTFGRTCKERCSGQEGCKSYVFC  
LPDPYGCSCATGWKGLQCNEACHPGFYGPDCKLRCSCNNGEMCDRFQGCLCSPGWQGLQCEREGIPRMT  
KIVDLDPDHIEVNSGKFNPICKASGWPLPTNEEMTLVKPDGTVLHPKDFNHTDHFVSAIFTIHRILPPDSG  
VWVCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFVAVINISSEPYFGDGPISKKLLYKPVNHYE  
AWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGEGHGPVRRFTTASIGLPPPRGLNLLPKSQTTLN  
LTWQPIFPSEDDFYVEVERRSVQKSDQQNIKVPGNLTSVLLNNLHPREQYVVRARVNTKAQGEWSEDLT  
AWTLSDILPPQENIKISNITHSSAVISWTILDGYSISSITIRYKVQGNEDQHVDVKIKNATITQYQLK  
GLEPETAYQVDIFAENNISSNPAF SHELVTLPESQAPADLGGGKMLL

TRSGTRSGDYKDDDDKGSHHHHH

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8117\\_g09.zip](https://cdn.origene.com/chromatograms/mk8117_g09.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>	<a href="#">NM_000459.4</a> , <a href="#">NP_000450.2</a>
<b>RefSeq Size:</b>	4787 bp
<b>RefSeq ORF:</b>	3375 bp
<b>Locus ID:</b>	7010
<b>UniProt ID:</b>	<a href="#">Q02763</a>
<b>Cytogenetics:</b>	9p21.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc, FN3, EGF, EGF
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>MW:</b>	83.1 kDa
<b>Gene Summary:</b>	<p>This gene encodes a receptor that belongs to the protein tyrosine kinase Tie2 family. The encoded protein possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Mutations in this gene are associated with inherited venous malformations of the skin and mucous membranes. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Feb 2014]</p>