

## Product datasheet for **RC206554**

### 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:	Myc-DDK
Symbol:	TIE2
Synonyms:	CD202B; GLC3E; TIE-2; TIE2; VMCM; VMCM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206554 representing NM_000459 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GCTTGGCAACATATTCAAGTGACAAATGAGATTGTTACACTCAACTATTTGGAACCTCGGACAGAATATG  
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**Protein Sequence:** >RC206554 representing NM\_000459  
 Red=Cloning site Green=Tags(s)

MDSLASLVLCGVSLLLSGTVEGAMDILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQD  
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 ISFKKVLIKEEDAVIYKNGSF IHSVPRHEVPDILEVHLPHAQPQDAGVYSARYIGGNLFTSAFTRLIVRR  
 CEAQKWGPECNHLCTACMNNGVCHEDTGEICPPGFMGRTEKACELHTFGRTCKERCSGQEGCKSYVFC  
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 EEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2850\\_e09.zip](https://cdn.origene.com/chromatograms/mg2850_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

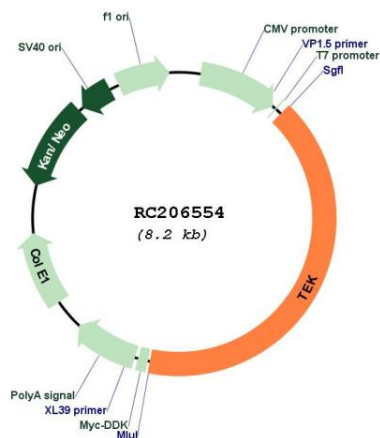


**ACCN:** NM\_000459

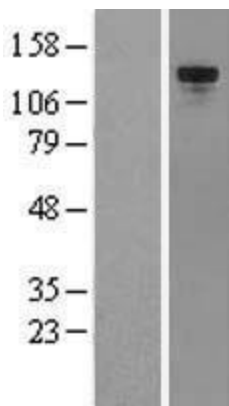
**ORF Size:** 3372 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000459.5</a>
<b>RefSeq Size:</b>	4138 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>	125.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC206554



Western blot validation of overexpression lysate (Cat# [LY424703]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206554 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).