

Product datasheet for **SC337840**

TIE2 (TEK) (NM_001290077) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIE2 (TEK) (NM_001290077) Human Untagged Clone
Tag:	Tag Free
Symbol:	TEK
Synonyms:	CD202B; GLC3E; TIE-2; TIE2; VMCM; VMCM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001290077, the custom clone sequence may differ by one or more nucleotides

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ATGGACTCTTTAGCCAGCTTAGTTCCTGTGGAGTCAGCTTGCTCCTTTCTGGAAGTGTGGAAGGTGCCA
TGGACTTGATCTTGATCAATTCCTACCTCTTGATCTGATGCTGAAACATCTCTCACCTGCATTGCCTC
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AAGGTCTGTGCAAAAAGTGATCAGCAGAATATTAAGTTCCAGGCAACTTGACTTCGGTGCTACTTAAC
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TCTACGAGAAGCTGCCCCAGGGCTACAGACTGGAGAAGCCCTGAACTGTGATGATGAGGTGTATGATCT
AATGAGACAATGCTGGCGGGAGAAGCCTTATGAGAGGCCATCATTTGCCAGATATTGGTGCCTTAAAC
AGAATGTTAGAGGAGCGAAAGACCTACGTGAATACCACGCTTTATGAGAAGTTTACTTATGCAGGAATTG
ACTGTTCTGCTGAAGAAGCGGCCTAG
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001290077

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001290077.1](#), [NP_001277006.1](#)

RefSeq Size: 4658 bp

RefSeq ORF: 3246 bp

Locus ID: 7010

UniProt ID:	<u>Q02763</u>
Cytogenetics:	9p21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Gene Summary:	<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> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>