

## Product datasheet for **SC323542**

### TEC (NM\_003215) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TEC (NM_003215) Human Untagged Clone
Tag:	Tag Free
Symbol:	TEC
Synonyms:	PSCTK4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003215, the custom clone sequence may differ by one or more nucleotides

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ATGAATTTTAACTACTATTTGGAGGAGATTCTTATTAAGGTCACAGCAGAAAAAGAAGACATCGCCCT
TAACTACAAAGAGAGACTTTTTGTACTTACAAAGTCCATGCTAACCTACTATGAGGGTCGAGCAGAGAA
GAAATACAGAAAGGGTTTATTGATGTTTCAAAAATCAAGTGTGTGAAATAGTGAAGAATGATGATGGT
GTCATTCCTGTCAAATAAGTATCCATTCAGGTTGTTTATGATGCTAACACACTTTACATTTTTGCAC
CTAGTCCACAAAGCAGGGACCTGTGGGTGAAGAAGTTAAAAGAAGAAATAAAGAACAACAATAATATTAT
GATTAATATCATCCTAAATTCTGGACAGATGGAAGTTATCAGTGTGTAGACAACTGAAAAATTAGCA
CCCGGATGTGAAAAATACAATCTTTTTGAGAGCAGTATAAGAAAAGCACTACCTCCAGCACCAGAAAAAA
AGAAGCGAAGGCCTCCCCACCAATTCCACTAGAAGAAGAAGATAATAGTGAAGAATCGTTGTAGCCAT
GTATGATTTCCAAGCAGCAGAAGGACATGATCTCAGATTAGAGAGAGGCCAAGAGTATCTCATTTTTAGAA
AGAATGATGTTTATTGGTGGAGAGCAAGAGATAAATATGGGAATGAAGGATATATCCCAAGTAATTACG
TAACGGGAAAGAAATCAAACAACCTTAGATCAATATGAATGGTATTGCAGAAATATGAATAGAAGCAAGGC
AGAGCAACTCCTCCGCAGTGAAGATAAAGAAGGTGGTTTTATGGTAAGGGATTCCAGTCAACCAGGCTTG
TACACAGTCTCCCTTTATACCAAGTTTGGAGGAGAAGGTTTCATCGGGTTTTAGGCATTATCATATAAAGG
AAACAACAACATCTCAAAGAAGTATTACCTAGCTGAAAAACATGCTTTTTGGCTCCATTCCTGAGATTAT
TGAATATCATAAGCACAATGCAGCAGGACTTGTACCAGGCTTCGGTACCCAGTTAGTGTGAAAGGGAAG
AATGCACCCACCACTGCAGGATTCAGCTATGAGAAATGGGAGATTAACCCCTCAGAACTGACCTTTATGA
GGGAATGGGAAGTGGACTGTTTGGAGTGGTGGAGCTTGGCAATGGCGAGCCAGTACAAAGTCGCAAT
CAAAGCTATTCGGGAAGGTGCAATGTGCGAGGAGGACTTATAGAAGAAGCTAAAGTGTATGAAACTG
ACACACCCGAAGTTAGTGCAGCTTATGGTGTGTGCACCCAGCAGAAACCAATATACATTTGTTACTGAGT
TCATGGAAAGGGCTGCCTTCTGAATTTCTCCGACAGAGACAAGGTCATTTTCAGTAGAGACGTACTGCT
GAGCATGTGTGAGGATGTGTGTGAAGGGATGGAGTATCTGGAGAGAAACAGCTTTCATCCACAGAGATCTG
GCTGCCAGAAATGTCTAGTAAGTGAAGCGGGAGTTGTAAGTATCTGATTTTGGAAATGGCCAGGTATG
TTCTGGATGATCAGTACACAAGTTCTTCTGGTCTAAGTTTCTGTGAAGTGGTGTCCACCTGAAGTGT
TAATTACAGCCGCTTCAGCAGCAATCAGATGTCTGGTCAATTTGGTGTTTAATGTGGGAAGTATTCACG
GAAGGCAGAATGCCTTTTAAAAATACACCAATTATGAAGTGGTAACCATGGTACTCGAGGCCACCCGAC
TCTACCAGCCGAAGTTGGCGTCCAACATGTGTATGAGGTGATGCTGAGATGTTGGCAGGAGAAACCAGA
GGGAAGGCCTTCTTCGAAGATCTGCTGCGCACAATAGATGAAGTGTGATGTAAGAACTTTTGGGA
AGATAA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for mutant NM_003215 unedited
CCGCCGTCTGAGCAATGGGCGGTAGGCGCTGTACGGCTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTG
AACCGTCAGAATATTGTAATACGACTCACTATAGGGCGGCCGAATACGGCACGAGCAGGTCCGCCAG
CAGCCCGCTTCAGCCAGAATACTGGGAATCTTCAGTGGCAGGAGGAGTAAATCAGAAGACGAGATGAAT
TTTAACTATTTTTGGAGGAGATTCTTATTAAGGTCACAGCAGAAAAAGAAGACATCGCCCTTAACT
ACAAAGAGAGACTTTTTGTACTTACAAAGTCCATGCTAACCTACTATGAGGGTCGAGCAGAGAAGAAATA
CAGAAAGGGTTTATTGATGTTTCAAAAATCAAGTGTGTGAAATAGTGAAGATGATGATGGGTGTCATT
CCCTGTCAAATAAGTATCCATTTAGGTTTGTTCATGATGCTAACACACTTTACATTTTTGCACCTAGT
CCAACAAGCAGGGACTGGTGGTTGAAGAAGTTAAAGAAGAAATAAGGACCACATTATTTATGATTAAT
TCCTCCTAAATTTGGAACGAAGGGGATTACGTGGTGAACAACGAAAAAGTCCCCGAGTAAAAATCCA
TCTTTTAGAGATGTAAGAAGCCACACTCCCCGACCAACGAAAGCTCCCCATTCTAGAGAGATATT
TGAATCTGTGCCGTGTAATTCACCAAGACGCTCGATAAGAAGCCAAGTTCTTTAAGAGGTGCTTGG
TGGACCATATTGGATAGAGATCCGTTCTCCGAATCACCTTTCTATGTGCCATTAGAGCCGGACCTCCCTG
AATAAGTTGAGGAGTCACTGAATC
    
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<b>Kinase Domain Sequence:</b>	>SC323542 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TMGACTTTATGAGGGATTGGGAGTGGACTGTTTGGAGTGGTGAGGCTTGGCAAATGGCGAGCCCAGTACA AAGTCGCAATCATGGCTATTCGGGAAGGTGCAATGTGCGAGGAGGACTTTATAGAAGAAGCTAAAGTGAT GATGAAACTGACACCCCGAAGTTAGTGCAGCTTTATGGTGTGTGCACCCAGCAGAAACCAATATACATT GTTACTGAGTTCATGAAAGGGGCTGCCTTCTGAATTTCTCCGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003215
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.  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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell, 2008 May p536-548.</a>
<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>RefSeq:</b>	<a href="#">NM_003215.1</a> , <a href="#">NP_003206.1</a>
<b>RefSeq Size:</b>	3620 bp
<b>RefSeq ORF:</b>	1896 bp
<b>Locus ID:</b>	7006
<b>UniProt ID:</b>	<a href="#">P42680</a>

<b>Cytogenetics:</b>	4p12-p11
<b>Domains:</b>	ptkinase, SH2, TyrKc, SH3, BTK, PH, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	T cell receptor signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the Tec family of non-receptor protein-tyrosine kinases containing a pleckstrin homology domain. Tec family kinases are involved in the intracellular signaling mechanisms of cytokine receptors, lymphocyte surface antigens, heterotrimeric G-protein coupled receptors, and integrin molecules. They are also key players in the regulation of the immune functions. Tec kinase is an integral component of T cell signaling and has a distinct role in T cell activation. This gene may be associated with myelodysplastic syndrome. [provided by RefSeq, Jul 2008]</p>