

## Product datasheet for **RG210992**

### TEC (NM\_003215) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TEC (NM_003215) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEC
Synonyms:	PSCTK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210992 representing NM\_003215  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATTTTAACTACTATTTGGAGGAGATTCTTATTTAAAGGTCACAGCAGAAAAAGAAGACATCGCCCT  
 TAAACTACAAAGAGAGACTTTTTGTACTTACAAAGTCCATGCTAACCTACTATGAGGGTCGAGCAGAGAA  
 GAAATACAGAAAGGGTTTATTGATGTTTCAAAAATCAAGTGTGTGAAAATAGTGAAGAATGATGATGGT  
 GTCATTCCCTGTCAAAAATAGTATCCATTTTCAGGTTGTTTCATGATGCTAACACACTTTACATTTTTGCAC  
 CTAGTCCACAAAGCAGGGACCTGTGGGTGAAGAAGTTAAAAGAAGAAAATAAAGAACAACAATAATATTAT  
 GATTAATATCATCCTAAATCTGGACAGATGGAAGTTATCAGTGTGTAGACAAACTGAAAAATTAGCA  
 CCCGGATGTGAAAAATACAATCTTTTTGAGAGCAGTATAAGAAAAGCACTACCTCCAGCACCAGAAAACA  
 AGAAGCGAAGGCCTCCCCACCAATCCACTAGAAGAAGAAGATAATAGTGAAGAATCGTTGTAGCCAT  
 GTATGATTTCCAAGCAGCAGAAGGACATGATCTCAGATTAGAGAGAGGCCAAGAGTATCTCATTGAGAA  
 AAGAATGATGTTCAATGGTGGAGAGCAAGAGATAAATATGGGAATGAAGGATATATCCCAAGTAATTACG  
 TAACGGGAAAGAAATCAACAACCTTAGATCAATATGAATGGTATTGCAGAAATATGAATAGAAGCAAGGC  
 AGAGCAACTCCTCCGAGTGAAGATAAAGAAGGTGGTTTTATGGTAAGGGATTCCAGTCAACCAGGCTTG  
 TACACAGTCTCCCTTTATACCAAGTTTGGAGGAGAAGGTTTCATCGGGTTTAGGCATTATCATATAAAGG  
 AAACAACAACATCTCAAAGAAGTATTACCTAGCTGAAAAACATGCTTTTGGCTCCATTCCTGAGATTAT  
 TGAATATCATAAGCACAATGCAGCAGGACTTGTACCAGGCTTCGGTACCCAGTATAGTGTAAAGGGAAG  
 AATGCACCCACTGCAGGATTCAGCTATGAGAAATGGGAGATTAAACCTTCAGAAGTACCAAGTGC  
 GGAATGGGAAGTGGACTGTTTGGAGTGGTGGGCTTGGCAAAATGGCGAGCCCAAGTACAAGTGC  
 CAAAGCTATTCGGGAAGGTGCAATGTGCGAGGAGGACTTTATAGAAGAAGCTAAAGTATGATGAAACTG  
 ACACACCCGAAGTTAGTGCAGCTTTATGGTGTGTGCACCCAGCAGAAAACCAATATACATTGTTACTGAGT  
 TCATGGAAGGGGCTGCCTTCTGAATTTCTCCGACAGAGACAAGGTCATTTTCAGTAGAGACGACTGCT  
 GAGCATGTGTGAGGATGTGTGTAAGGGATGGAGTATCTGGAGAGAAACAGCTTCATCCACAGAGATCTG  
 GCTGCCAGAAATGTCTAGTAAGTGAAGGGAGTTGTAAGTATCTGATTTTGGAAATGGCCAGGTATG  
 TTCTGGATGATCAGTACACAAGTCTTCTGGTCTAAGTTTCTGTGAAGTGGTTCACCTGAAGTGT  
 TAATTACAGCCGCTTCAGCAGCAATCAGATGTCTGGTCAATTTGGTGTGTTAATGTGGGAAGTATCAGG  
 GAAGGCAGAATGCCTTTTAAAAATACCAATTATGAAGTGGTAACCATGGTACTCGAGGCCACCGAC  
 TCTACCAGCCGAAGTTGGCGTCCAATATGTGTATGAGGTGATGCTGAGATGTTGGCAGGAGAAACAGAG  
 GGAAGGCCTTCTTCGAAGATCTGCTGCGCACAATAGATGAACTAGTTGAATGTGAAGAACTTTTGGAA  
 AGA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG210992 representing NM\_003215  
 Red=Cloning site Green=Tags(s)

MNFNTILEEILIKRSQQKKKTSPLNYKERLFLVTKSMLTYEGRAEKRYRKFIDVSKIKCIVEIVKNDG  
 VIPCQNKYPFQVVDANTLYIFAPSPQSRDLWVKLKEEIKNNNNIMIKYHPKFWTDGSYQCCRQTEKLA  
 PGCEKYNLFESSIRKALPPAPETKKRRPPPIPLEEEDNSEEIVVAMYDFQAAEGHDLRLERGQYILE  
 KNDVHWRARDKYGNEGYIPSNYVTGKSNLNDQYEWYCRNMNRSKAEQLLRSEDKEGGMVRDSSQPL  
 YTVSLYTKFSGGSSGRHYHIKETTTSPPKYYLAEKHAFGSIPEIIEYHKHNAAGLVTRLRYPVSVKGG  
 NAPTTAGFSYEKWEINPSELTFMRELGSGLFGVVRLGKWRAQYKVAIKAIREGAMCEEDFIEEAKVMMKL  
 THPKLVQLYGVCTQQKPIYIVTEFMERGCLLNFLRQRQGHF SRDVLV SMCQDVCEGMEYLERNSFIHRDL  
 AARNCLVSEAGVVKVSDFGMARYVLDQYTSSSGAKFPVKWCPPEVFNYSRFSKSDVWSFGVLMWEVFT  
 EGRMPFEKYTNVEVVTMVRGHRLYQPKLASNYVVEVMLRCWQEKPEGRPSFEDLLRTIDELVECEETF  
 R

**TRTRPLE** – GFP Tag – V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_003215

**ORF Size:** 1893 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_003215.3](#)

**RefSeq Size:** 3620 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 7006

**UniProt ID:** [P42680](#)

**Cytogenetics:** 4p12-p11

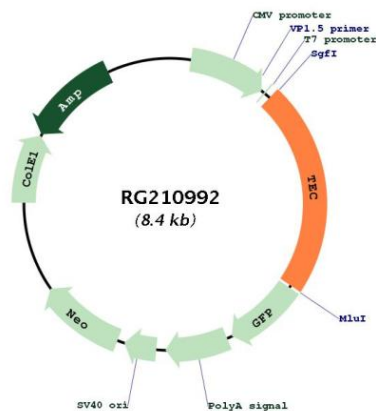
**Domains:** pkinase, SH2, TyrKc, SH3, BTK, PH, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** T cell receptor signaling pathway

**Gene Summary:** 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]

### Product images:



Circular map for RG210992