

Product datasheet for **RG214595**

TEKT5 (NM_144674) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TEKT5
Synonyms:	CT149
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214595 representing NM_144674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGTTTCTTGGGACTACTCAGACCGCCAGTTACTGTGGTCCCAAGAAATGCTGTGGCTTGACCTCAC
 TGCCAGCTGTACAGGCGCCAGTGATCCAGGAATGCTATCAGCCCTACTACCTGCCCGGGTACCGCTACCT
 CAATTCATGGAGGCTAGCCTCTTCTACAAGATAGCCAACGTCCAGACCTGCCCGGACGAGAGCACCAGT
 ACCCTGCGGCGCCACCACCTGCCCACACTGCGCTCCGCACTCTTCTCTCGTATAGCCCCACGACT
 GGGACCACTCAACAGCTGCAGGTGCGTGGGGCCGAGGCTCCCGGCTGTGGCCAGCCGGCTGACGGA
 TGACTCCATGAGGCTCTTGCAGGACAAGGACCAGCTGACGCACCAGATGCAGGAGGGCACCTGCCGGAAC
 CTGGGCGAGAGGCTGTGCGACATTGGCTTCTGGAAGTCAGAGCTGAGCTATGAGCTGGACAGGCTTCTGA
 CTGAGAACCAGAACTTGAGACGGTCAAGAGCGGCTGGAGTGCAGCGCCAATGAGGTGAATGCCATT
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 GATGTGAAGAATAAGCTGCAGACGAGCTGGCGAAGACGCTGCAGGAGATCTTCCAGGCCGAGAACACCA
 TCATGCTGCTGGAAAGGTCCATCATGGCCAAGGAGGCGCGCTGAAGGTGGCCAGACAAGGCTGGAGTG
 CCGGACCCGCGGCCAACATGGAGCTGTGCAGGGACATCCCGCAGTTGAAGCTGGTGAACGAGGTGTTT
 ACCATCGACGACACCCTGCAGACCCTCAAGCTGCGGCTGCGGGAGACACAGGACACGCTGCAGCTGCTGG
 TCATGACCAAGTGCCGGCTGGAGCACGAGCTCGCCATCAAGGCCAACACCCTCTGCATCGACAAGGAGAA
 GTGCATGGGCATGCGTAAGACCTTCCCCTGCACCCGCGCTGGTGGCCACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214595 representing NM_144674
 Red=Cloning site Green=Tags(s)

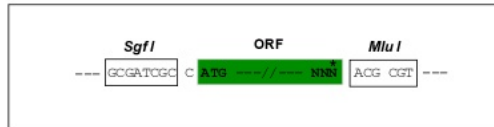
MEFLGTTQTASYCGPKKCCGLTSLPAVQAPVIECYQPYLPGYRYLNSWRPSLFYKIANVQTCPESTS
 TLRPPTILPTLSALFSRYSPhdWQSNQLQVRGAEASRLWASRLTDDSMRLQLQDKQLTHQMGEQTCRN
 LGQRLSDIGFWKSELSYELDRLLTENQNLQETVKRRLECAANEVNCPLQVALECLYHREKRIGIDLVDNV
 EKNLIREVLLKCCQEQMRKLAQRIDIQMRDNRAQHVLERDLEKSSAQIDEKCFNLNRTSDCISFFH
 GMEKIDGTISVPETWAKFSNDNIKHSQNMANSIQLREEAEHLFETLSDQMWRQFTDTNLAFNARISEVT
 DVKNKLQTLAKTLQEIFQAENTIMLLERSIMAKEGLKVAQTRLECRTRRPNMELCRDIPQLKLVNEVF
 TIDDTLQTLKRLRETQDTLQLLVMKCRLEHELAIAKANTLCIDKEKCMGMRKTFPCTPRLVGHT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN: NM_144674

ORF Size: 1455 bp

OTI Disclaimer: 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).

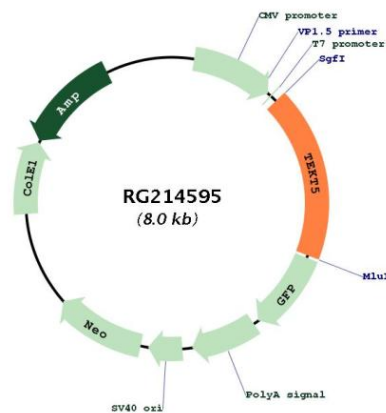
Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144674.2](#)

RefSeq Size:	1609 bp
RefSeq ORF:	1458 bp
Locus ID:	146279
UniProt ID:	Q96M29
Cytogenetics:	16p13.13
Gene Summary:	May be a structural component of the sperm flagellum.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for RG214595