

Product datasheet for **RG207425**

TEKT2 (NM_014466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEKT2 (NM_014466) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEKT2
Synonyms:	h-tektin-t; TEKTB1; TEKIN-T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207425 representing NM_014466 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGCTGAGCGTCAAGCCAAGTCGGCGCTTCCAGCTGCCGACTGGCACACTAACAGCTACCTGC
TATCCACCAATGCCAGCTGCAGCGAGATGCTTCCCATCAGATCCGCCAGGAGGCCGGGTCTCCGCAA
CGAGACCAACAACCAGACCATTGGGATGAACATGACAACAGGACTCGACTGGTGGAGAGGATTGATACT
GTCAACCGGTGGAAGGAGATGCTGGACAAGTGTCTGACAGATTTAGATGCCGAGATCGATGCCCTGACAC
AGATGAAGGAGTCAGCAGAGCAAACTGCAGGCCAAGAACCTGCCTCTGGATGTGGCCATTGAGTGCCT
GACCCTGCGGGAAAGCCGCGAGACATTGATGTGGTGAAGGACCTGTGGAGGATGAGCTGCATAAAGAG
GTGGAGGTTCATCGAGGCCACCAAGAAGGCCTTGCAACAGAAGGTCAGCCAGGCCTTCGAGCAGCTCTGCC
TCTTGCAAGGAAGTCCAACAGCAGCTCAACTCCGACCATCGGGGCAAAATGGAGACACTAGAGATCGACAG
AGGCTGTCTCTCTCAACCTCAGATCCCCAAACATCTCGCTGAAGGTTGACCCACACGTGTACCTGAT
GGCTCCACCACACTCCAGCAGTGGGATGACTTCAGTCGGTTCAACAAGGACCGAGCGGAGGCTGAGATGA
AGGCAGCCACAGAGCTGAGGGAGGCCACTGCTCTAACTATTGCTGAGACCAACAACGAGCTTGAAGCCCA
GAGAGTTGCAACGGAATTTGCCTTCAGGAAGCGGCTGCGGGAGATGGAGAAAGTGTACAGTGAGCTCAAG
TGGCAAGAGAAGAATACCTTGAGGAGATCGCTGAGCTGCAGGAGGACATCCGGCACCTGGAGGAGGATC
TGCGCACAAAGCTCTGAGCCTGAAGCTGTCCATACCCGGCTAGAGGCCAGAACCTACCGGCCCAACGT
GGAACCTGCGGGGACCAGGCACAGTACGGCCTCACCGACGAGGTTACACAGCTAGAGGCAACCATCGCT
GCCCTGAAGCAGAAGCTGGCGCAAGCACAGGACGCACTGGACGCCCTGTGCAAGCACCTGGCCCGGCTGC
AGGCTGACATTGCCTGCAAGGCCAACTCCATGCTGCTGGACACCAAGTGCATGGACACGCGGCGCAAGCT
GACCGTGCCTGCTGAGAGGTTCTGCTGAGGTGGACACCTTCACACGTACCACAATAGCACCTGAGT
CCACTCAAAGCTGCCAGCTGGAGCTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207425 representing NM_014466
Red=Cloning site Green=Tags(s)

MATLSVKPSRRFQLPDWHTNSYLLSTNAQLQRDASHQIRQEARVLARNETNNQTIWDEHDNRTRLVERIDT
VNRWKEMLDKCLTDLDAEIDALTQMKESAEQNLQAKNPLDVAIECLTLRESRRDIDVVKDPVEDELHKE
VEVIEATKKALQQKVSQAFEQLCLLQEVQQQLNSDHRGKMETLEIDRGCLSLNLRSPNISLKVDPTRVPD
GSTTLQQWDDFSRFNKDRAEAEMKAATELREATALTIAETNNELEAQRVATEFAFRKRLREMEKVYSELK
WQEKNTLEEIAELQEDIRHLEEDLRTKLLSLKLSHTRLEARTYRPNVELCRDQAQYGLTDEVHQLEATIA
ALKQKLAQAQDALDALCKHLARLQADIACKANSMLLDTKCMDTRRKLTPAERFVPEVDTFTRTTNSTLS
PLKSCQLELA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014466

ORF Size: 1290 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_014466.2](#), [NP_055281.2](#)

RefSeq Size: 1536 bp

RefSeq ORF: 1293 bp

Locus ID: 27285

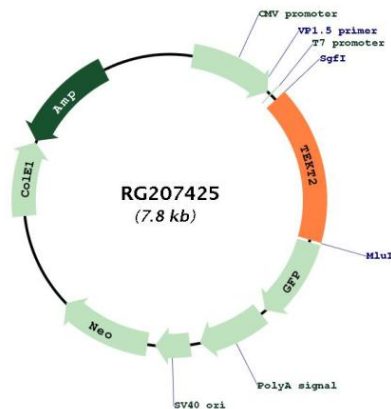
UniProt ID: [Q9UIF3](#)

Cytogenetics: 1p34.3

Domains: Tektin

Gene Summary: This gene product belongs to the tektin family of proteins. Tektins comprise a family of filament-forming proteins that are coassembled with tubulins to form ciliary and flagellar microtubules. This gene is expressed in the testis and its protein is localized to the flagella of the sperms, indicating that it may play a role in spermatogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207425