

Product datasheet for **RC207425**

TEKT2 (NM_014466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEKT2 (NM_014466) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TEKT2
Synonyms:	h-tektin-t; TEKTB1; TEKIN-T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC207425 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCCACGCTGAGCGTCAAGCCAAGTCGGCGCTTCCAGCTGCCCAGCTGGCACACTAACAGCTACCTGC
 TATCCACCAATGCCAGCTGCAGCGAGATGCTTCCATCAGATCCGCCAGGAGGCCCGGTGCTCCGCAA
 CGAGACCAACAACAGACCATTGGGATGAACATGACAACAGGACTCGACTGGTGAGAGGATTGATACT
 GTCAACCGGTGGAAGGAGATGCTGGACAAGTGTCTGACAGATTTAGATGCCGAGATCGATGCCCTGACAC
 AGATGAAGGAGTCAGCAGAGCAAACTGCAGGCCAAGAACCTGCCTCTGGATGTGGCCATTGAGTGCCT
 GACCCTGCGGAAAGCCGGCGAGACATTGATGTGGTGAAGGACCCTGTGGAGGATGAGCTGCATAAAGAG
 GTGGAGGTCATCGAGGCCACCAAGAAGGCTTGAACAGAAGGTCAGCCAGGCCTTCGAGCAGCTCTGCC
 TCTTGCAAGTAAGTCCAACAGCAGCTCAACTCCGACCATCGGGGCAAAATGGAGACACTAGAGATCGACAG
 AGGCTGTCTCTCTCAACCTCAGATCCCCAAACATCTCGCTGAAGGTTGACCCACACGTGTACCTGAT
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 AGGCAGCCACAGAGCTGAGGGAGGCCACTGCTCTAACTATTGCTGAGACCAACAACGAGCTTGAAGCCCA
 GAGAGTTGCAACGGAATTTGCCTTCAGGAAGCGGCTGCGGGAGATGGAGAAAGTGTACAGTGAGCTCAAG
 TGGCAAGAGAAGAATACCTTGAGGAGATCGCTGAGCTGCAGGAGGACATCCGGCACCTGGAGGAGGATC
 TGCGCACAAAGCTCCTGAGCCTGAAGCTGTCCCATACCCGGCTAGAGGCCAGAACCTACCGGCCAACGT
 GGAAGCTGCGCGGACAGGCACAGTACGGCCTACCGACGAGGTTACACAGCTAGAGGCAACCATCGCT
 GCCCTGAAGCAGAAGCTGGCGCAAGCACAGGACGCACTGGACGCCCTGTGCAAGCACCTGGCCCGGCTGC
 AGGCTGACATTGCCTGCAAGGCCAACTCCATGCTGCTGGACACCAAGTGCATGGACACGCGGCGCAAGCT
 GACCGTGCCTGCTGAGAGGTTCTGCTGCTGAGGTGGACACCTTCACACGTACCACAAATAGCACCTGAGT
 CCACTCAAAAGCTGCCAGCTGGAGCTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207425 protein sequence
 Red=Cloning site Green=Tags(s)

MATLSVKPSRRFQLPDWHTNSYLLSTNAQLQRDASHQIRQEARVLRNETNNQTIWDEHDNRTRLVERIDT
 VNRWKEMLDKCLTDLDAEIDALTQMKESAEQNLQAKNPLDVAIECLTLRESRRDIDVVKDPVEDELHKE
 VEVIETKKALQKVSQAFEQLCLLQEVQQQLNSDHRGKMETLEIDRGCLSLNLRSPNISLKVDPTRVPD
 GSTTLQWDDFSRFNKDRAEAEKAAATELREATALTIAETNNELEAQRVATEFAFRKRLREMEKVYSELK
 WQEKNTLEEIAELQEDIRHLEEDLRKLLSLKLSHTRLEARTYRPNVELCRDQAQYGLTDEVHQLEATIA
 ALKQKLAQAQDALDALCKHLARLQADIACKANSMLLDTKCMDTRRKLTVPAERFVPEVDFTTRTTNSTLS
 PLKSCQLELA

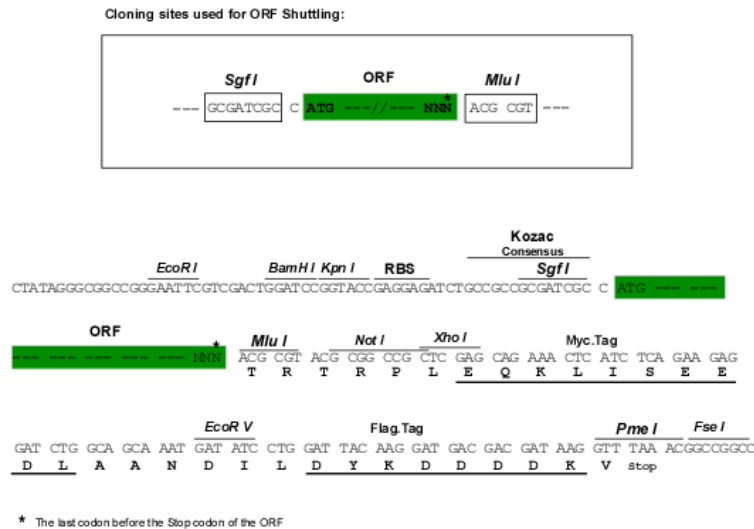
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6335_g01.zip

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_014466.3](#)

RefSeq Size: 1536 bp

RefSeq ORF: 1293 bp

Locus ID: 27285

UniProt ID: [Q9UIF3](#)

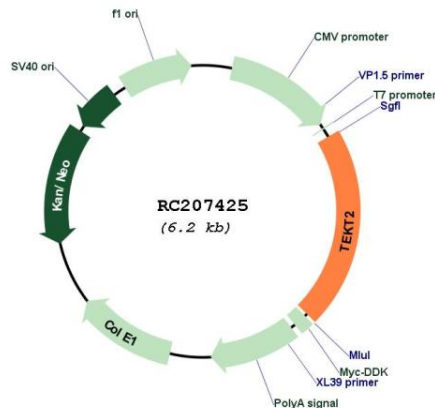
Cytogenetics: 1p34.3

Domains: Tektin

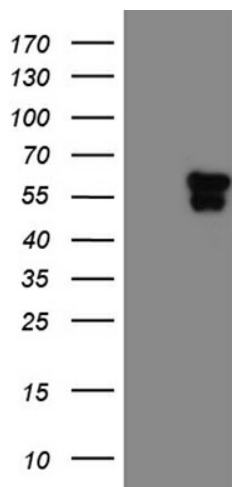
MW: 49.7 kDa

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]

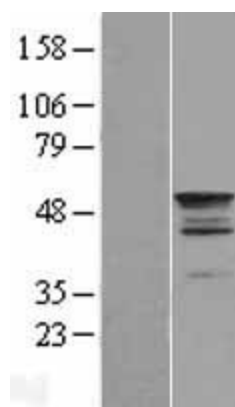
Product images:



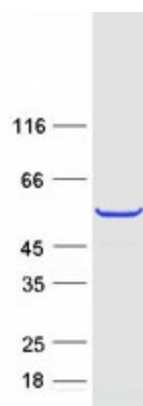
Circular map for RC207425



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TEKT2 (Cat# RC207425, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TEKT2 (Cat# [TA809970])(1:2000). Positive lysates [LY415231] (100ug) and [LC415231] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415231]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TEKT2 protein (Cat# [TP307425]). The protein was produced from HEK293T cells transfected with TEKT2 cDNA clone (Cat# RC207425) using MegaTran 2.0 (Cat# [TT210002]).