

Product datasheet for **RC206214**

TCTE1 (NM_182539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCTE1 (NM_182539) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TCTE1
Synonyms:	D6S46; DRC5; FAP155
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206214 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGATACCGTAACGACATCAGCATTGTTGGACCCAGCCACTCCTCAGTCTCCACCCAGGACAATT
 CCTCCACTGGAGGACACACTTCAAGCACAGCCTACAGCTCTCAAAGCCTTCAATCACACCAGTCCCTGC
 AAAGTCCAGGAACCCACGTCCCAGGGCCAATATCCGTCGGATGCGCCGGATCATTGCTGAGGATCTGAG
 TGGTCACTGGCCATCGTGCCCTCCTCACAGAGCTCTGCATTGAGCATTATCAGGAACCTCCAGAAAA
 ACCCTATCCTGAAGCAGATGCTCCCGAACACCAGCAGAAGGTCTGAACCACCTGTCCCTGACCTACC
 ACTGGCTGTGACCGCCAACTGATAGACAGTGAGAACTACTGGCTCCGCTGCTGCATGCATCGTGGCCC
 GTGTGCCACGTGGCCACCATGGCGGCAGCTGGAACGCATGTTCTTCGAGCGGCACCTGGAGAACCTGC
 TAAAGCACTTTATCCAGGCACCACAGACCCTGCGGTGATCCTCGACCTGCTGCCGCTCTGCCGAATTA
 CGTGCGCAGGGTCCAGTCGATCAGTTCTTCCGCCGGTGCAGCTCCCGGCCAGCTCCGGCCGGCGGAC
 CAGTCCGACTCAGGCAGCGAGGGAGAGATGGAGGAGCCACCGTTGACCACTACCAACTGGCGCATCTGG
 TAGCTGGCCTGAGCCACCTGGAGGAGCTGGACCTGGTGTACGATGTCAAGGACTGCGGCATGAATTCGA
 GTGGAATCTCTTCTCTTACCTACCGCGACTGCCTCTCCTTGGCAGCCGCCATCAAGGCATGCCACACC
 CTCAAGATCTTCAAGCTGACCCGAAGCAAGGTGGATGATGACAAGGCACGCATCATAATTCGAAGCCTTC
 TGGACCACCCAGTCTCGAGGAGCTGGACTTGTACAAAACCTCATTGGAGACCGTGGTGCACGAGGCGC
 TGCCAAGCTGTGAGCCACAGCCGCTGCGTGTCTCAACCTGGTAACAACAGGTGCGTGCACCCGGT
 GCCCAGTCCCTGGCTCACGCTCTGGCACACAACCAACCTCATTCCCTCAACCTACGTCTCAACTGCA
 TCGAGGATGAGGGTGGCCAGGCTCTTGCCCATGCCTTGACAGCAACAAGTGCCTCACCACGCTGCACCT
 CGGTGGCAATGAGCTGTCTGAGCCACCCGCCACACTCCTGTACAGGTGCTCGCCATCAACACCACACTC
 ACCAGCATCAACCTGTCTGCAACCACATCGGGTGGACGGTGGGAAGCAGCTCCTGGAAGGCATGTCAG
 ACAACAAGACCTCCTGGAATTTGACTTGCGCCTGTGAGATGTGGCCAGGAAAGCGAGTACCTCATTGG
 CCAGGCCCTCTACGAAACCGAGAAGCAGCCGCCAGCGGGCCCTGAATCCCAGCCACTTCATGTCAACC
 ATCACTGCCAATGGCCCTGAGAACTCTGTGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206214 protein sequence
 Red=Cloning site Green=Tags(s)

MQDVTTSALLDPSHSSVSTQDNSSTGGHTSSTSLQLSKPSITPVPKSRNPRPRANIRRMRIIAEDPE
 WSLAIVPLLTCLCIQHIIIRNFQKNPILKQMLPEHQKVLNHLSPDLPLAVTANLIDSENYWLRCCMHRWP
 VCHVAHHGGSWKRMFFERHLENLLKHFIPGTTDPAVILDLLPLCRNYVRRVHVDQFLPPVQLPAQLRPGD
 QSDSGSEGEEMEEPTVDHYQLGDLVAGLSHLEELDLVYDVKDCGMNFEWNLFLLTYRDCLSLAAAIKACHT
 LKIFKLTRSKVDDDKARIIRSLLDHPVLEELDSLQNLIGDRGARGAAKLLSHSRLRVNLANNQVRAPG
 AQSLAHALAHNTNLISLNLRLNCIEDEGGQALAHALQTNKCLTTLHLGGNELSEPTATLLSQVLAINTTL
 TSINLSCNHIGLDGGKQLLEGMSDNKTLLEFDLRLSDVAQESEYLIGQALYANREARQALNPSHFMS
 ITANGPENS

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6317_a11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_182539

ORF Size: 1503 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_182539.2](#)

RefSeq Size: 1686 bp

RefSeq ORF: 1506 bp

Locus ID: 202500

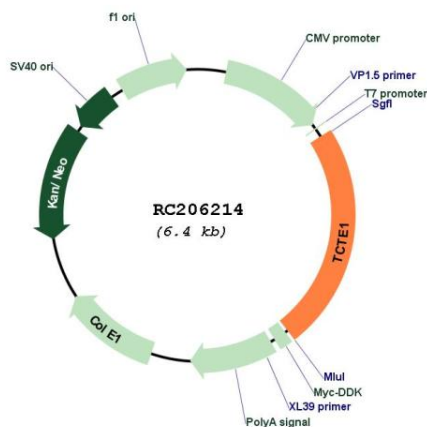
UniProt ID: [Q5JU00](#)

Cytogenetics: 6p21.1

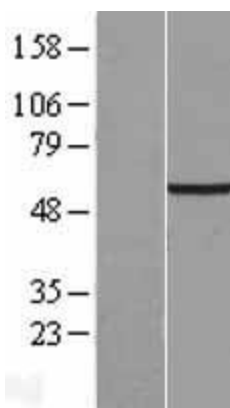
MW: 55.7 kDa

Gene Summary: Component of the nexin-dynein regulatory complex (N-DRC) a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. May play a role in the assembly of N-DRC. May be required for sperm motility.[UniProtKB/Swiss-Prot Function]

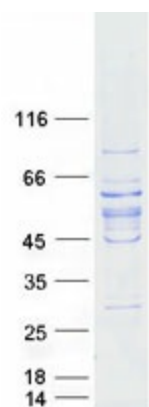
Product images:



Circular map for RC206214



Western blot validation of overexpression lysate (Cat# [LY405494]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TCTE1 protein (Cat# [TP306214]). The protein was produced from HEK293T cells transfected with TCTE1 cDNA clone (Cat# RC206214) using MegaTran 2.0 (Cat# [TT210002]).