

Product datasheet for **RC207744**

TXNDC3 (NME8) (NM_016616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC3 (NME8) (NM_016616) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TXNDC3
Synonyms:	CILD6; DNAI8; HEL-S-99; NM23-H8; sptrx-2; SPTRX2; TXNDC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207744 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAGCAAAAAACGAGAAGTCCAGTTACAGACAGTCATCAATAATCAAAGCCTGTGGGATGAGATGT
 TGCAGAACAAAGGCTTAACAGTGATTGATGTTTACCAAGCCTGGTGTGGACCTTGCAGAGCAATGCAACC
 TTATTTCAGAAAATTGAAAAATGAAGTGAACGAAGACGAAATTCGATTTTGCTGTCGAGAAAGCTGAC
 AACATTGTGACTTTCAGGCCATTTAGAGATAAATGTGAACCTGTTTTCTCTTTAGTGTTAATGGCAAAA
 TTATCGAAAAGATTACGGGTGCAATGCACCGCTTGTTAATAAAAAAGTTATTAATTTGATCGATGAGGA
 GAGAAAAATTGCAGCAGGTGAAATGGCTCGACCTCAGTATCCTGAAATCCATTAGTAGACTCAGATTCA
 GAAGTTAGTGAAGAATCACCATGTGAAGTGTTCCAGGAATTATACAGTATTGCTATTATCAAACCGGATG
 CTGTGATTAGTAAAAAGTTCTAGAAATTAAGAAAAAATTAACAAAGCTGGATTATTATAGAAGCAGA
 GCATAAGACAGTGCTCACTGAAGAACAAGTTGTCAACTTCTATAGTCGAATAGCAGACCAGCGTGACTTC
 GAAGAGTTTGTCTCTTTATGACAAGTGGCTTAAGCTATATTCTAGTTGTATCTCAAGGAAGTAAACACA
 ATCCTCCCTCTGAAGAAACCGAACACAGACTGACACCGAACCTAACGAACGATCTGAGGATCAACCTGA
 GGTCGAAGCCAGGTTACACCTGGAATGATGAAGAACAAACAGACAGTTTACAAGAATATCTGGAAGA
 CAACATTTAGCTCAGCTCTGTGACATTGAAGAGGATGCAGCTAATGTTGCTAAGTTTCATGGATGCTTTCT
 TCCCGGATTTTAAAAAATGAAAAGCATGAAATTAGAAAAGACATTGGCATTACTTCGACCAAACTCTCT
 TCATGAAAGGAAAGATGATGTTTTCGCTATTATTAAGATGAAGACTTCAAAATACTGGAGCAAAGACAA
 GTAGTATTATCGAAAAAGAAGCACAAGCACTGTGCAAGGAATATGAAATGAAGACTATTTAATAAAC
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 TTTGCGATGGACAGTTTCCCGGTCAACCAAGTTGTATGGCAGCGATTATTAGAAACCGCTGAAAGGGAAA
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 GAGCAAACTGAGAAAATTTATCCAAAAGTAACAGGAAAAGACTTTTATAAAGATTTATTGGAATGTTAT
 CTGTGGGTCCATCTATGGTCATGATTCTGACCAAGTGAATGCTGTTGAGAATGGAGACGATTGATGGG
 CCCAACAGACCCAGAAGAAGCAAAATTAATTTCCCTGACTCCATCCGAGCCAGTTTGAATAAGTAAA
 TTGAAAAACATTGTCCATGGAGCATCTAACGCCTATGAAGCAAAAGAGGTTGTTAATAGACTCTTTGAGG
 ATCCTGAGGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207744 protein sequence
 Red=Cloning site Green=Tags(s)

MASKKREVQLQTVINNQLWDEMLQNKGLTVIDVYQAWCGPCRAMQPLFRKLKNELNEDEILHFAVAEAD
 NIVTLQPFQDKCEPVFLFSVNGKIIKIQGANAPLVNKKVINLIDEERKIAAGEMARQYPEIPLVDS
 EVSEESPCESVQELYSIAIIKPDVAVISKVLEIKRKITKAGFIIIEAHKTVL TEEQVNFYSRIADQRDF
 EEFVSFMTSGLSYILVVSQGSKHNPPEETEPQDTEPNERSEDQPEVEAQVTPGMMKNQDSLQEYLER
 QHLAQLCDIEEADAANVAKFMDAFFPDFKKMSMKLEKTLALLRPNLFHERKDDVLR IIKDEDFKILEQRQ
 VVLSEKEAQAQCKEYENEDYFNKLIENMTSGPSLALVLLRDNGLQYWKQLLGPRTVEEAIEYFPESLCAQ
 FAMDSLVPVNLQYGSLSLETAEREIQHFFPLQSTLGLIKPHATSEQREILKIVKEAGFDLTQVKKMFLTP
 EQTEKIYPKVTGKDFYKDLLEMLSVGPSMVMILTKWNAVAEWRRLMGPTDPEEAKLLSPDSIRAQFGISK
 LKNIHVHGNAYEAEKVVNRLFEDPEEN

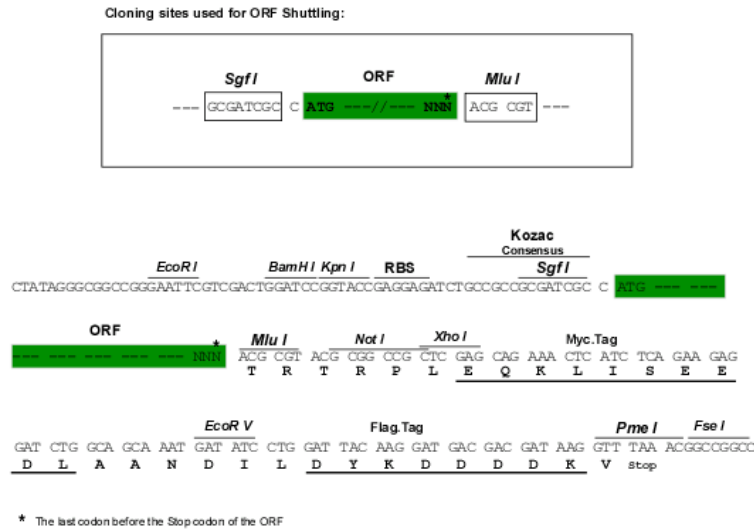
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6516_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016616

ORF Size: 1764 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.

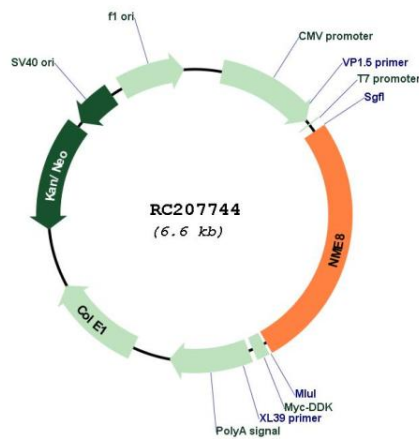
RefSeq: [NM_016616.2](#), [NP_057700.2](#)

RefSeq Size: 2327 bp

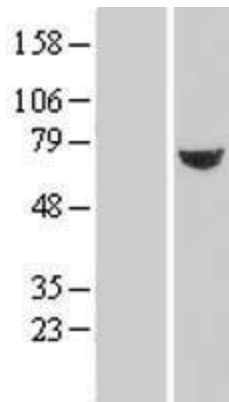
RefSeq ORF: 1767 bp

Locus ID:	51314
UniProt ID:	Q8N427
Cytogenetics:	7p14.1
Protein Families:	Druggable Genome
MW:	67.3 kDa
Gene Summary:	This gene encodes a protein with an N-terminal thioredoxin domain and three C-terminal nucleoside diphosphate kinase (NDK) domains, but the NDK domains are thought to be catalytically inactive. The sea urchin ortholog of this gene encodes a component of sperm outer dynein arms, and the protein is implicated in ciliary function. Mutations in this gene are implicated in primary ciliary dyskinesia type 6.[provided by RefSeq, Nov 2009]

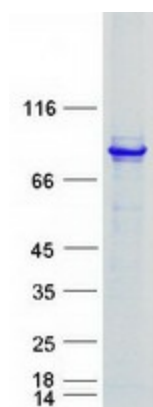
Product images:



Circular map for RC207744



Western blot validation of overexpression lysate (Cat# [LY413869]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207744 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NME8 protein (Cat# [TP307744]). The protein was produced from HEK293T cells transfected with NME8 cDNA clone (Cat# RC207744) using MegaTran 2.0 (Cat# [TT210002]).