

Product datasheet for **RG207744**

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:	TurboGFP
Symbol:	TXNDC3
Synonyms:	CILD6; DNAI8; HEL-S-99; NM23-H8; sptrx-2; SPTRX2; TXNDC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207744 representing NM_016616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAGCAAAAAACGAGAAGTCCAGTTACAGACAGTCATCAATAATCAAAGCCTGTGGGATGAGATGT
 TGCAGAACAAAGGCTTAACAGTGATTGATGTTTACCAAGCCTGGTGTGGACCTTGCAGAGCAATGCAACC
 TTTATTAGAAAAATTGAAAAATGAAGTGAACGAAGACGAAATTCGATTTTGTCTGCGAGAAGCTGAC
 AACATTGTGACTTTGCAGCCATTAGAGATAAATGTGAACCTGTTTTCTCTTTAGTGTTAATGGCAAAA
 TTATCGAAAAGATTAGGGTGCATATGCACCGCTTGTTAATAAAAAAGTTATTAATTTGATCGATGAGGA
 GAGAAAAATTGCAGCAGGTGAAATGGCTCGACCTCAGTATCTGAAATCCATTAGTAGACTCAGATTCA
 GAAGTTAGTGAAGAATCACCATGTGAAGTGTTGAGGAATTATACAGTATTGCTATTATCAAACCGGATG
 CTGTGATTAGTAAAAAGTTCTAGAAATTAAGAAAAAATTAACAAAGCTGGATTATTATAGAAGCAGA
 GCATAAGACAGTCTCACTGAAGAACAAGTTGTCAACTTCTATAGTCGAATAGCAGACCAGCGTGACTTC
 GAAGAGTTTGTCTCTTTATGACAAGTGGCTTAAGCTATATTCTAGTTGTATCTCAAGGAAGTAAACACA
 ATCCTCCCTCTGAAGAAACCGAACACAGACTGACACCGAACCTAACGAACGATCTGAGGATCAACCTGA
 GGTCGAAGCCAGGTTACACCTGGAATGATGAAGAACAAACAGACAGTTTACAAGAATATCTGGAAGA
 CAACATTTAGCTCAGCTCTGTGACATTGAAGAGGATGCAGCTAATGTTGCTAAGTTTCATGGATGCTTTCT
 TCCCGGATTTAAAAAATGAAAGCATGAAATTAGAAAGACATTGGCATTACTTCGACCAATCTCTT
 TCATGAAAGGAAAGATGATGTTTTCGCTATTATTAAGATGAAGACTTCAAAATACTGGAGCAAAGACAA
 GTAGTATTATCGAAAAAGAAGCACAAGCACTGTGCAAGGAATATGAAATGAAGACTATTTAATAAAC
 TTATAGAAAACATGACCAGTGGTCCATCTAGCCCTTGTTTTATTGAGAGACAATGGCTTGAATACTG
 GAAACAATTACTGGGACCAAGAAGCTGTTGAAGAAGCCATTGAATATTTTCCAGAGAGTTTATGTGCACAG
 TTTGCGATGGACAGTTTCCCGGTCAACAGTTGTATGGCAGCGATTATTAGAAACCGCTGAAAGGGAAA
 TACAGCATTTCTTCTCTTCAAGCACTTTAGGCTTGATTAAACCTCATGCAACAAGTGAACAAAGAGA
 GCAGATCTGAAGATAGTTAAGGAGGCTGGATTGATCTGACACAGGTGAAGAAAATGTTCTAATCTCT
 GAGCAACTGAGAAAATTTATCCAAAAGTAACAGGAAAAGACTTTTATAAAGATTTATTGGAATGTTAT
 CTGTGGGTCCATCTATGGTCATGATTCTGACCAAGTGAATGCTGTTGAGAATGGAGACGATTGATGGG
 CCCAACAGACCCAGAAGAAGCAAAATTAATTTCCCTGACTCCATCCGAGCCAGTTTGAATAAGTAAA
 TTGAAAAACATTGTCCATGGAGCATCTAACGCCTATGAAGCAAAAGAGGTTGTTAATAGACTCTTTGAGG
 ATCCTGAGGAAAAC

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

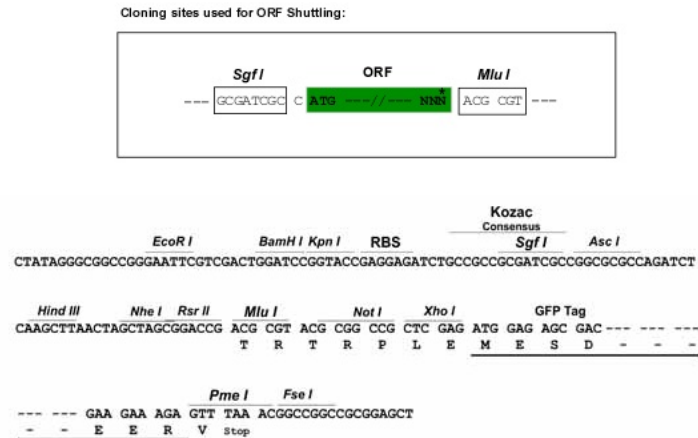
>RG207744 representing NM_016616
 Red=Cloning site Green=Tags(s)

MASKKREVQLQTVINNQSLWDEMLQNKGLTVIDVYQAWCGPCRAMQPLFRKLKNELNEDEILHFAVAEAD
 NIVTLQPFQKCEPVFLFSVNGKIEKIQGANAPLVNKKVINLIDEERKIAAGEMARQYPEIPLVSDS
 EVSEESPCESVQELYSIAIIKPDVAVISKVLEIKRKITKAGFIIIEAEHKTVLTEEQVNFYSRIADQRDF
 EEFVSFMTSGLSYILVVSQGSKHNPSEETEPQTDTEPNERSEDQPEVEAQVTPGMMKNQDSLQEYLER
 QHLAQLCDIEEDAANVAKFMDAFFPDFKKMKSMKLEKTLALLRPNLFHERKDDVLRRIKDEDFKILEQRQ
 VVLSEKEAQLCKEYENEDYFNKLIENMTSGPSLALVLLRDNGLQYWKQLLGPRTVEEAIEYFPESLCAQ
 FAMDSLVPVNLVYSDSLETAEREIQHFPLQSTLGLIKPHATSEQREQILKIVKEAGFDLTQVKKMFLTP
 EQTEKIYPKVTGKDFYKDLLEMLSVGPSMVMILTKWNAVAEWRRMLMGPTDPEEAKLLSPDSIRAQFGISK
 LKNIVHGASNAYEAEVYNRLFEDPEEN

TRTRPLE – GFP Tag – V

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:	2350 bp
RefSeq ORF:	1767 bp
Locus ID:	51314

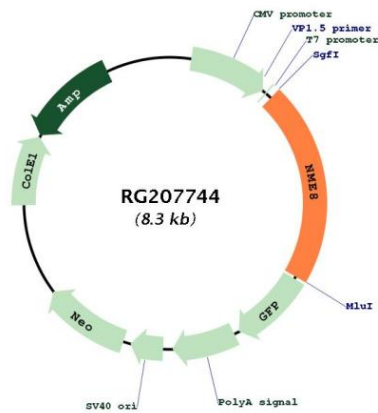
UniProt ID: [Q8N427](#)

Cytogenetics: 7p14.1

Protein Families: Druggable Genome

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 RG207744