

Product datasheet for **SC108789**

TTC21B (NM_024753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC21B (NM_024753) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTC21B
Synonyms:	ATD4; FAP60; FLA17; IFT139; IFT139B; JBTS11; Nbla10696; NPHP12; SRTD4; THM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024753, the custom clone sequence may differ by one or more nucleotides

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ATGGACTCGCAGGAATTGAAGACTTTGATTAATTACTATTGTCAAGAGAGATATTTCCATCATGTATTAC
TGGTTGCCAGTGAAGGAATTAAGAGGTATGGAAGTGATCCAGTCTTCAGGTTTTATCATGCCATGGCAC
ATTAATGGAAGGTAAACTCAAGAAGCTCTCGAGAATTTGAGGCTATTAATAAACAAGATGTATCA
CTTTGTTCTCTACTTGCCTGATATATGCCATAAAATGAGTCTAATCCAGATAGAGAAGCTATTCTGG
AATCAGATGCCAGAGTGAAGGAACAACGTAAGGAGCTGGAGAGAAAGCCTTATACCATGCAGGCTTATT
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AGTAAACAGGGACACGTTTTGAAAGCATGGCTTGATATTACAAGAGGAAAAGAGCCTTACACTAAAAAG
CACTGAAGTATTTGAAGAGGGACTCCAAGATGGGAATGATACTTTTGCTCTGCTGGTAAGGCACAATG
CCTTGAGATGCGCCAGAATTATTCAGGTGCCCTGGAGACTGTGAACCAGATAATCGTGAATTTCCGAGC
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GAACCACAGAATGCTCACTTTTCTATAACATTACACTCGCCTCAGCAGAACTGTGGAGCTAGTCAAC
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GTCTCAAGAAAAAGTCAAATTGTGTTCTCAGTCTCTTGAACCTTTGTCTGAGCTATGATTTTAAGGTGAGA
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TGATAAGGCCCGTGCCTTTAAGACCTTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_024753 unedited
CCAGTCAGAATTGTATACGACTCATATAGGCGGCCGGAATCGGCACGAGGGAAAGATC
GTGACTGGGGCCAAAAGCCCTTTAAATATGATAGAGAGCTGTTTGAATCCTGATAATGAA
ACTGTTGGAGGTGAAGTATTTGAAAACCTGGATGGAGACCTGGGTAAATCAACTGAGAAG
CAAGAATCTGTGCAACTGGCAGTAAGAGCAGCAGAAAAACTTCTTAAGGAACTAAAACCT
CAGACTGTTCCAGGTCACGTACAGCTTCGCATAATGAAAACTATTGCTTAATGGCTACC
AAACAGAAATCTAATGTTGAACAAGCATTAAATACCTTCACTGAAATAGCAGCATCTGAG
AAGGAGCATATCCCAGCGCTCTTGGGAATGGCAACGGCTTATATGATCTTGAACAGACT
CCACGAGCCAGAAACCAGCTGAAGCGTATTGCGAAAATGAATTGGAATGCTATTGATGCT
GAAGAGTTTGAAGAAGTTGGCTGCTACTTGCTGATATTTACATTCAATCAGCAAAAAT
GACATGGCAGAAAGACCTGTTAAAACCGTGCCTGCCTCATAATAGATCTTGCTGCAAAAGCT
TATGAATATATGGATACATTATGAAAAAGAGCAAGCATATACAGATGCTGCCTTGAAC
TATGAGATGGCATGGAATATAGCAATCGGACAAATCCGGCAGTAGGATACAAACTGGCA
TTTAATTACTTAAAAGCAAAAAGATATGTGGATTCAATTGACATATGTCACCAGGTTCTTG
AAGCACATCTACTTATCTAGAAATCAGTAGGGATATACTTGATCAGGCCCGTGCCTT
TACGACCTTGAGAATATTTAGCTTAGNTNNGTGTACAGGACATGAAGACCTAACT
CAGTTCTTCTGCAGACG
    
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_024753 unedited
ATGAACACCGCCGCTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTACAGGGGAGA
TTTATTCCAATTTTTGAAACAACACAGAATACAACAAAAACAGGCTGGGTGCGGTGGCTC
ATGCCTGTAATCCCAGCACCTTGGGAGGCCGAGGCAGGTGGATCACAAGGTCAAGAGATC
AAGCCCCCTCTGGCTAACACGGTGAAATCCCATCTCTACTAAAAATACAAAAAATTAGC
CGGGTGTGATGGCACATGCCTTTAGTCCCAGCTACTCGGGAGGCTGAAGCAGGAGAATCG
CGTAAACCCAGGAGGCCGAGGTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTG
GGCGGCAGATCAAGGCTCTGTCTTTAAAAATAAATAAATAAATAAAGAAATATAACAAAA
ACACTTTAAAAGAGAACAATGCATTTTAAATATATTTCTGAAATAATATTCCTTAGAAA
AGATACAGGGTATTTAATTACCTAGATTTTAACAAAATATTCTTTATAGAAATAATTATA
GTCTTTACCACAGAGTCACCAAATCTGTACCAATCAAAACAGAGTCAAATAGACCAGCT
CTCATTCAACTCCATTAGGAAACACCAATTTACATAGTACTTCTCTTGATGTACAGCAG
CAACCTCTGCTGGAGAAAAAAGGTATACTTCTAATAACAAAGCACTGAGCTCAAACCTG
TTTTGAACAGGAAGAAGTAAAGTTAGATTTCTTTTCATTTCTGTAAACCAACACCTAA
GTAAANATTATTTCAAGGTCTTAAAGACGCACGGGCCTTATCAAGTATATCCTTTCTGA
TTTTTGATAAGTGGNATGTGCTTCAGAACCTGNGACATATGTCAATTGAATCCCATATCT
TTTTGCTTTTAGTAATAAATGCCAGTTGTTCTACTGCCGNATTGTCCGATGCTATATTC
CTGCATCTCATANTCAGGCACTCTGNATAGCTGCTCTTTTCATAAGGACCC
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Restriction Sites:

NotI-NotI

ACCN:

NM_024753

Insert Size:

1600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

RefSeq: [NM_024753.1](#), [NP_079029.1](#)

RefSeq Size: 5491 bp

RefSeq ORF: 765 bp

Locus ID: 79809

UniProt ID: [Q7Z4L5](#)

Cytogenetics: 2q24.3

Domains: TPR

Protein Families: Protease

Gene Summary: This gene encodes a member of TTC21 family, containing several tetratricopeptide repeat (TPR) domains. This protein is localized to the cilium axoneme, and may play a role in retrograde intraflagellar transport in cilia. Mutations in this gene are associated with various ciliopathies, nephronophthisis 12, and asphyxiating thoracic dystrophy 4. [provided by RefSeq, Oct 2011]