

Product datasheet for **SC100216**

TTC21A (NM_145755) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC21A (NM_145755) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTC21A
Synonyms:	IFT139A; SPGF37; STI2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145755, the custom clone sequence may differ by one or more nucleotides

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ATGAGCAGCAATGACTCCTCCCTTATGGCTGGGATCATTACTATAGCCAGGAAAAGTACTTCCACCATG
TGCAGCAGGCTGCAGCTGTGGGCTGAAAAAATCAGCAATGACCCTGTGTTGAAGTTCTTTAAAGCCTA
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CCTTTTCTCTGGCTCATAGGCCGCCATGACAAGCCAAAGAGTACATTGACCGCATGCTGAAGATTTCT
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AGAAAGCCATTGAGTACCTGGAACAAGGAATTCAGGACACCAAAGATGTGCTGGGCTGATGGGAAAGGC
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GGGAGCTTCTGCCAGCCCTCGTCTGAAGATGCAGCTGTTCTTAGCTCGGCAGGACTGGGAGCAGACAG
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TTGAATCCTGTAGTCAAAGCAGCACCAGCTCTGATCGACCCCTGATTTGATGGCTCAGGTCAGGTATT
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CCATCTCCTCATGTGTCAGATCTACTTGGCTCAGGGCAACTTTGGCATGTGCTTCCACTGCTTAGAGCTG
GGTGTGAGCCACAACCTCCAGGTCCGAGATCACCCCTCTACCACCTCATCAAGGCCAGGGCCCTCAACA
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AGAAATTTGTGGAGGCCATTGAAATCTGCAACGATGCTCCTCAGGGAGCACCCCGACTACCCCAAGATCAG
GGAGGAAATTTTGGAAAAGGCCGAAGGTCCCTGAGGCCCTAG
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_145755 unedited
GTATACGACTCCTATAGGGCGGCCGCGATTCCGGCAGGAGGAGACTGGACGCTCCTAGC
AACCGGCTAGCAGCTCGGTTTCCAAGGACTGTAACGCCTTCAACCGCCCGCCGATAGA
GTGCCCCAGACCTGCCTCGGGAATCTCGCTCTGCACCGCCCCACCAGACCCGGACTCGG
AGCCGCGAGCGGCCCGAGATGAGCAGCAATGACTCCTCCCTTATGGCTGGGATCATTAC
TATAGCCAGGAAAAGTACTTCCACCATGTGCAGCAGGCTGCAGCTGTGGGCTGGAAAA
TTCAGCAATGACCCTGTGTTGAAGTCTTTAAAGCCTATGGAGTCTCAAAGAAGAGCAC
ATCCAGGATGCCATCAGTGACCTGGAAGCATCAGGCATCACCCAGACGTGTCCCTGTGC
TCCACCATGGCCCTCATTTATGCTCACAAAAGATGTGAAATCATTGACCGAGAAGCAATT
CAGGAGCTTGAGTACAGCCTGAAGGAAATACGCAAGACAGTCAAGTGGGACTGCACTGTAC
TATGCTGGCCTTTTCTCCTGGCTCATAGGCCGCATGACAAGGCCAAAGAGTACATTGAC
CGCATGCTGAAGATTTCTAGAGGCTTACAGAGGCTTATGTGCTCAGAGGCTGGGTGGAC
CTGACCTCAGACAAGCCCCACACTGCGAAGAAAGCCATTGAGTACCTGGAACAAGGAATT
CAGGACACCAAAGATGTGCTGGGCTGATGGGAAAGGCGATGACTTTCATGATGCAGCAG
AAACTACTCAGAGCCCTGGNAGGTGGTGAACCCAGACACTGTGACTTCAGGNNAGCTTCT
GNCAGNCCTCGTCTGAGAAAGCCANCTGTTCTTAACTCGGCAGGACTGGGGAGCGACCG
TTAAAATGGGACCCAGAATCTAGAAAAA
    
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145755 unedited
 GACCGCGCCGCAATTTANAGTCGAGTTTTATTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 AAGCCAGTTGATGTCTTTCTTCCCAGAGCAAAATTTCTTGTGCCTTAAAAACATAAAGTT
 AGGTCAGATGAGACATGACTCAAATAAACCCACATACACTATAGAAATGGGGAAGATGT
 GTCATTTTCTGAATCCCTTCTCCACTGACCCATTTTCCATCCCTCCACACAACCTCAGTA
 GTTGATGGCTTCTACTGGTCCAGGCCCTTGACCCCAGCTAGGGCCTCAGGGACTTTTCG
 GGCCTTTTCCAAAATTTCTCCCTGATCTTGGGGTAGTCAGGGTGTCCCTGAGGACATC
 GTTGACAGATTTTCGATGGCCTCCACAAAATTTCTTGTCCCTCAGGTAGTTGAAAGCAAGTTT
 GAAGCCAATGGCAGGGTTGGCGTGATGACTGTACTTCCAGGCCAGTTTGTAGTTGGTGAC
 TGCATCCTTGTAGGACTGCTCCTTCTCCATGATGAAGCCCATGTACTCATAGGCCTTGTA
 GCAGGACTTGTGTATTGCACACAGCCCGCAGCAGTTCTAAGGCGAGGTGCAACTTGCT
 GCCCTGGCAGTAAATGTCAGCCAGGAGCCAGCTCTTCTCCAGGTCTCAGCCTCACT
 CAGCACCCANGGGGTCTTGGCCAAGCGCTTTCAGTGCATACGCGCCTTTGGGATCTGCT
 TCANGAACACCTANGCTTGCCAAAGGCCAACAGGGCAGGNACGCTGTNCTTNTCANCCT
 GCGCTATCTGGATGAAGCTGCCAACGCAGCCTCCATGTTAGCCTTTTTCTGNTGGGCC
 AACCGGCAAAGGCCCTGCANCAACCCAACCTTGGGTTTGGCTGGGATCTGATGGTGGGTAA
 ACCTCCGCCACAAGTTCTTGGGGGGCTAAAACCCGGTGGGCACAACCCTTTTTTACATG
 AGAGTGCCTCACACCCCGGTCTAAAAACCCTTCCCCCAACTCCTTGCCTGAATCAAC
 AA

Restriction Sites:

NotI-NotI

ACCN:

NM_145755

Insert Size:

4600 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_145755.1](#), [NP_665698.1](#)

RefSeq Size: 4233 bp

RefSeq ORF: 3963 bp

Locus ID: 199223

UniProt ID: [Q8NDW8](#)

Cytogenetics: 3p22.2

Domains: TPR

Gene Summary: Intraflagellar transport (IFT)-associated protein required for spermatogenesis (PubMed:30929735). Required for sperm flagellar formation and intraflagellar transport (PubMed:30929735).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) includes an alternate in-frame exon in the 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (2) that is longer than isoform 1.