

Product datasheet for **MC224221**

Ttc21a (NM_028735) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ttc21a (NM_028735) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ttc21a
Synonyms: 4921538N17Rik; AA387572; Thm2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224221 representing NM_028735
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCAGCGATGACTCCTCTCATGGCTTCGATCATTTACTACAGCCAGGAAAAGTACTTCCACCATG
TGCTGCAGGCTGCGAATGTGGGCTAGAGAGGTACAGCAGCGACCCAGCCCTGCAGTTCTTCAGAGCGTA
TGGAACTCTTGGGAAGACCACATCCACGATGCCATCAGCGAGCTGGAAGGCATCCAAGCCACCCAGAC
AGTCCCTGTGCGCGGTATCGCCCTGCTTTCTGCTCACAAATCTGCGACACCATCGACATAGAAGCAG
TTCAGGAACTGGAGAGCAGCTTGAAGGAAATTCGAGGTCAGCCAGCAGCACTGCTCTGACTACGCCAG
CCTCTTCTCTGGTTTCAATGGGTCAACACGACAAGGCCAGGGAGTATGTTGACCACATGTTGAAGGTCTCC
AGCGGCTCCAAAGAGGGCTATGTGCTCAAAGGCTGGGTGGACCTTACCTCCAGTAAACCCACGTTGTGA
AGAAATCCATCAAGTACCTGGAACAAGGAACTCAAGACACCAAAGATGTGCTAGGGCTCATGGGCAAGGC
AACGTAATCATGACACAACAGAACTTCTTGGGGCCCTGGAGGTGGCGAACCAGGTCACCTTGGCTGC
AGCAACTTCTGCCCCTTTAGTCCTGAAGATGAAGCTGTTCTGGCTCGGCAGGATTGGGATCAGACGA
TAGAAACCGACAAAGAATCCTTGAAAAGACGAAAACAATATTGATGCCTGGCAAATTTAGCTGTGCA
CGAGCTGGTAAAAGAAGGGAACACGGACAGAGCTGCCGACCGGGTCAGAAACCTCATCAAGGCGCTAGAG
ACTGGAGAGCCCCACAATCCAAACCTACATCTTAAGAAGATCCTTGAATCAGCAGGCTGTGTGGGAGGC
ACCAGGTGGTCCATCGGCTTGTGAGCGGCTTCTGGAGCGCATCTTATGGCCACACCTTCTGTGCCCT
TGTGGCCACAGAGCTGGGCTACCTTCTACCTACACCAACAAGTGAAGGAAGCCTGTCTGTGTTACAAG
GAGGCCATGAAGCTGGAGGAGAACAGGCTGGCTGCCTTGGCAGGGAGCATCTGGTGCCAGATCCTACAGG
GCCAGCTGGAGGAGGCTGCTCACCAGCTGGAGTTCCTCAAGGAGGTGCAGCAGTCCCTTGGGAAGTCTGA
GTTGCTGGTTTTCTGCAAGCCCTCGTAGCAGTAAGAAGCAAAGGCTGGAGCAGGAGGCCACGGCGCTC
CTGAAGGAGGCGGTGGAAGTGCCTTCTCAGCATGCAGGCTCTGGCCCTGAGCCCCGAGTACTTTGAAA
AGCTGGACCCCTCTTTCTGGTCTGCATCGCCAAGGAGTATCTGCATTTCTGCCCAAGCAGCCCCGGTC
ACCCGGCCAGCTCGTATCTCACTTCTTAACAAGTCGCCATGATCTTGAGTCTGTGGTGAAGGTGGCC
CCGGCCATGATGGAGCCACTGTATGTAACGGCTCAGGTCAAGTTCCTCTCAGGAGAGCTGGAAAATGCGC



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AGAGCACCTGCAGCGCTGCCTGGAGCTGGACCCACATTTGTGGATGCTCACCTCCTCATGTCCCAGAT
 CTACCTGGCCAGGGCAACTTCGCCATGTGCTCCATTGCCTAGAGCTGGGTGTCAGCCACAACCTCCAG
 GTCGAGACCATCCCCTTACCCTTCAAAAGCCAGGGCCCTCAATAAGACGGGCGACTATGCCGAGG
 CCATAAGACCTTAAAAATGATCATAAAGGTTCCACCTCGAAGGCAGAAAGGGGAGGAAGTCCCAAAG
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 GAACTGCACGAGGCCACCAAGATCATGCAGGACGCCATCAATGAGTTCAGCGGCACGCCAGAGGAGATGC
 GCATCACGGTTCGCAACCTGGACTTGGCTCTGAGCAAGGGCAACGTGGACCTGGCGTGAACATGTTAAG
 AGGTATCACACCCAAGCAACCCTGCTACACAGAAGCCAAGGAGAAGATGGCCAGTATCTACCTGCACACT
 CGCAAGGACGTGCGCCTCTACATTGGCTGCTACGTGGAGCTTTGTGAACATCTGCCCGGCCCCACAGCA
 GCCTGCTACTGGGTGACGCTTTCATGAACATTCAGGAGCCTGAGAAGGCCCTGGAGGTGTATGACGAGGC
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 TACGCCAAGGCCATTAATTACTACGAGGCTGCCAGAAGATCAGCGGCAGGACTTCTGTGCTGCGAGC
 TGGCCGAGCTCCTCCTCAAGCTGAAGAAATACCACAAGGCAGAGAAGGTGCTGAAGCAGGCCTTGGAGCG
 AGACTCAGGGGTCAAGGACATCCATCCATGATAAATGAGGTCAAGTCTTGGCTTTTGTGGCAAAGGTT
 TACAAGAGCCACAAGAAGGAAGGTGATGAAACCCTGAATCTGGCCTTGGACCTCCAGTCCCGGATAC
 TGAAGCGGGTTCCTTTGGAGCAATCAGAAATGATCCCCTTCCAGAATCAGCTGGCAGCCTCCATCTGCAT
 CCAGATTGGGGAACATCACCTGGCGGAGAAAGATTACGACAGCGCCTGAAATCCTATAAGGACGCCCTC
 GCCTACTCGCCACAGACAGTAAGGTGGTGTGGAGCTGGCCATCTCTACCTGCTTCTGGGTGACGTGG
 ACCTGTGTGAACAGCGCTGTGCCCCCTCTTAGAGATGGAGCAGACCCACGAGAGAGCCGCTGTGATGCT
 GGCCGACTGTATTTAGAAGACAAAATATGAAACTGCCATCAATCTCTACCACCAAGTGTGGAGAAA
 GCTCCAGACAATTTTTGGTATTGAATAAACTGGTCGATCTGCTACGACGGAGCGCAAGCTTGAAGAGG
 CCCCTGCTTCTTTGAACTGGCCAAGAAGGTGTCTAGCCGGTGCCTTTGGAGCCAGGTTAACTACTG
 CCAAGCATTACTTCTGGCACATTGGACAGCCCAATGAAGCCTTGAGGTTTCTGAACAAAGCCCGAAAG
 GACAGCATTGGGGCCAGCTTGCCACCTGTTACATGGTACAGATCTGTCTGAACCCTGACAATGAGATTG
 TCGGTGGAGAGGCTTTTGGAGCCTGGTGGGTGACAGCAACTCTGCCAGTAGAAAGGAGTCTCAGCAGCA
 CGGGGTGCGCACTGCAGAGAAGTACTTTCGGAATTTTACCCACACTCGGAATCCGGGCAGACCCAGCTG
 CGGCTGCTGCAGAATCTGCTGCTGGCCACCAGGGAGAAGGCGAATGTAGAGGTGGCTCTGGGAGCCT
 TTATCGAGATGGCCAGGCTGAGAAGGACAGCATCCCTGCACTGCTGGCCATGGCGCAGGCCTACATACT
 CCTGAAGCAAGTCCCAAGGCCGAACGCAGCTGAAGCGCCTGGCCAAAGTCCCATGGACGGTTCGACGAG
 GCCGAAGACCTGAAAAGAGCTGGCTTCTGTTGGCAGATATCTATTGCCAAGGCGGCAAGTTCGACCTGG
 CCTTGGAGCTACTGCGCCGATGCCTGCAGTATAACAAGTCTTGTGCGCGGCCTATGAGTACATGGGCTT
 CATCATGGAGAAAAGAGCAGTCATACAAGGATGCAGCAACCAACTACGAGCTGGCCTGGAAGTACAGTCAT
 CAGGCCAACCCCGCCATTGGTTTCAAATGGCTTTCAAACCTGAAAGCAAGAAGTTCGTAGATGCCA
 TTGAAGTCTGTACAGCGTCTGACGGAGCACCCCAAGTACCCCAAGATCAGGGAGGAGATTTGGAGAA
 AGCCCAAGGGTCTTGGAGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_028735
- Insert Size:** 3945 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_028735.3](#), [NP_083011.2](#)

RefSeq Size: 4182 bp

RefSeq ORF: 3945 bp

Locus ID: 74052

UniProt ID: [Q8C0S4](#)

Cytogenetics: 9 F4

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]