

Product datasheet for MC224220

Ttc21b (NM_001047604) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ttc21b (NM_001047604) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ttc21b
Synonyms: 2410066K11Rik; aln; mKIAA1992; Thm1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224220 representing NM_001047604
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTCCCAGGGGCTGAAGACGCTGATTAACACTATTGTCAAGAGCGCTATTATCACCACGTGCTCC
 TTGTTGCCAGTGAAGGGATGAAGAAGTATAGCAGCGACCCAGTCTCCGATTTTACCACGCCTACGGCAC
 ACTGATGGAGGGTAAAGCGCAAGAAGCCCTTCGGGAGTTTGGAGCCATTAACAAACAAGACGTGTCA
 CTGTGTTCTCTGATGGCGCTGATGTATGTCATAAAATGAGCCCCAATCCAGACAGAGAAGCTATCCTGG
 AATTAGATACAAAATGAAGGAGCAACGCAAGGAGGCTGGACGCAAGCCCTGTACCATGCGGGCCTGTT
 TTTATGGCACATTGGTCGTATGACAAGGCGAGAGAATATATTGACAGAAATGTCAAAAATGCCACATGAT
 AGCAATGAGGGGCGGATTTTGAAGCGTGGCTTGATATTACAAGAGGGAAGGAACCTTATGCTAAAAAG
 CCCTGCGGATTTTGGAGGGGATTACAAGATGGAATGATATTTTCGCTCTTCTGGGTAAGGTTCTGTG
 CCTTGAGATTCGACAGAATTATCCGGAGCTCTGGAGACCGTGAGCCAGATAATTGTAACCTTCCAAGC
 TTCCTTCTGCCTTTGAGAAGAAAATGAAATACAACCTGGCTTACAGGATTGGGATCAGACAGTGGAGA
 CAGCACAAGGCTGCTGCTTCAAGACAATCACAACGTGGAGGCGCTGAGGATGCTGGCTGTATTATCT
 GTGTAGGGAAGGGGACGTAGAGAAGGCTGCTACCAAGCTGGAAAATTTAGGAAATGCATTGGATGTCATG
 GAACCACAGAATGCTCAACTTTTTTATAAGATTACACTAGCCTTCAGCAGAACGTGTGGACGTAATCAAC
 TCATTCTCCAGAAAGTTCAAAGTTTCTAGAAAAAGCATTTAGTTTAACTCCCCAGCAAGCAGAAATTGC
 TACAGAGCTCGGCTACCAATGATTCTCCAAGGCAAGGTCAAGGAGGCTGGAAGTGTACAGGACCGCC
 ATGACGCTGAATGAGAGCAACATCTCTGCTGTACCCGACTTATCCGATGTCAGTTAATAGAGGGCAGT
 TGCAAGATGCAGACCAGCAGTTGGAGTTCTTCAGTGAATCCAGCAGTCAATGGGAAATCTGCGGAATT
 AATGATTTGCATGCGGTTCTTGCTACGAAAAAATAATCGTCAGGATGAAGTTATAAATTTGTTGAAT
 GATGTTGTGAATACTCACTTTTCACTTGAAGACCTCCGCTCGGCATACAGTATTTGAGAAGTCA
 ACCTGACTTCTACTAGAAGTTGTTACCGAGTATCTGAATCTCTGTCCAATTCAGCCTGCAGGTCCTGG
 ACAACCTTTTCTCCAGTTCTCAGACGTTGTTCTTCAGTCTGGAGACGATTATAAGAAGTGTACCAAGT
 CTTCACAAGCTGCTTCTCAATGGCCAAAGTGAAGTATTTGTCAGGTGACACTGAAGCGGCATACAACA



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ATCTGCAGCACTGCCTCGAGCACAGCCCCTCTATGCGGAGGCTCACCTCCTGATGGCACAGGTGTACCT
 GTCCCAAGACAAAGTCAAGCTGTGTTTCGCAGTCGCTTGAACCTTTGTCTGAGCTACAATTTAATGTGAGA
 GAGTACCCATTATATCATTTAATCAAAGCACAGTCACAAAAGAAAATGGGGGAAGTAGCAGAAGCAATTA
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 AACTGAGGTGGACGCGAGCCATCGGTTATCCATCTTCTGGAGTTGGTGGAGGTCCACCGCTTAAATGGA
 GAACAGCATGAGGCAGCAAAGGTTTTACAGGATGCCATCCATGAGTTTTTCGGGAACCTGTGAAGAATTAC
 GTGTCACTATTGCTAATGCAGACCTGGCTCTGGCCCAAGGAGATACGGATCGTGCATTAAGCATGCTTTCG
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 AGGAAAGAGAAAAATGTTGTATATCACTTGTACAGAGAAATTGCTGAGAGAATGCCAGTCCCGGTCTT
 TCCTGCTCCTCGGCGATGCGTACATGAACATTCAGGAGCCAGAAGAAGCCATAGTGGCCTATGAGCAAGC
 ACTCAATCAGAACCCCAAAGATGGAACACTGGCAAGAAAATTTGAAAAGCACTTGTCAAACTCACAAT
 TACTCAAAGGCAATCACCTATTATGAAGCGCTCTGAAAAGTGGACAGCAGAATTGCCTTTGCTATGACC
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 GTTCATTGTGAAACAGACAGTAAGATAATGTTGGAACCTGGCGAGTTATACCTGGCCCAAGAAGACCTTG
 ACGCCTCCTCGCAGACTGTGCGCTGCTTCTCCAGAGGGACCAGGACAATGAACCTGCCACCATGTTGAT
 GGCCGACCTCATGTTTCAGAAAGCAAGACTATGAACAAGCAGTGTATCATCTGCAGCAGCTTTTAGACCGG
 AAACCAGATAATTTTATGACTTTGTCCCGTTTGATTGATCTCCTGAGAAGATGTGGGAACTTGAGGATG
 TTCGAGATTTTCTTGATGGCTGAGAAACACAACCTCCAGAACAAAATTTGAGCCAGGATTTTCAGTACTG
 TAAAGGATTACATTTTTTGTATACTGGAGAACCAATGATGCCCTTCGACATTTTAAAGCTCGGAAA
 GATAGTACTGGGTGAGAAATGCACTTTATAATATGATAGAAATCTGCCTAAATCCAGACAATGAAACTA
 TTGGAGGTGAAGTGTGAAAACCTGAATGGAGACCTGGGCACTTCCCCTGAGAAGCAGGAGTCTGTGCA
 GTTAGCAGTGAGGACAGCAGAAAAGCTCCTTAAGGAACTGAAGCCTCAGACCGTCCAGGGCCGCTGCAA
 CTCCGCATAATGGAAAAGTGTGCTGATGGCCACCAAGCAGAAGTCCAGTGTGGAGCAGGCACTGAACA
 CCTTACCAGAAATCGCAGCCTCCGAGAAGGATCATATCCAGCTCTTTGGGAATGGCAACGGCTTATAT
 GATCTTGAACAGACTCCAAAAGCCAGAAACCAGCTGAAGCGGATTGCAAAAATGCCTTGGAACTCTATT
 GAAGCCGAGGATCTGGAGAAGAGCTGGCTGCTGCTGATATTTATATCCAGTCCAGCAAAATATGACA
 TGGCAGAGGAATTAATAAGCGGTGCTCTGCCATAACCGGTCTGCTGCAAAGCTTATGAATATATGGG
 GTACATTATGGAGAAAGAGCAAGCATACACAGATGCGGCCTTCAACTATGAGATGGCATGGAAACATAGC
 AACCAGACAAATCCTGCAGTGGGATACAAATTGGCATTAAATTACCTAAAAGCAAAACGATATGTGGATG
 CAATTGACGATGTCACCAGGTTCTTGAAGCACATCCAACCTACCCAAAATCAGAAAGGATATACTTGA
 TAAGGCGCGTGCATCTTTAAGACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001047604
- Insert Size:** 3948 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_001047604.2](#), [NP_001041069.1](#)

RefSeq Size: 4470 bp

RefSeq ORF: 3948 bp

Locus ID: 73668

UniProt ID: [Q0HA38](#)

Cytogenetics: 2 C1.3

Gene Summary: Component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs). Essential for retrograde trafficking of IFT-1, IFT-B and GPCRs (By similarity). Negatively modulates the SHH signal transduction (PubMed:18327258).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.