

Product datasheet for MC229533

Ttc21b (NM_001290669) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc21b (NM_001290669) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttc21b
Synonyms:	2410066K11Rik; aln; mKIAA1992; Thm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229533 representing NM_001290669 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCCCAGGGGCTGAAGACGCTGATTAAGTACTATTGTCAAGAGCGCTATTATCACCACGTGCTCC
TTGTTGCCAGTGAAGGGATGAAGAAGTATAGCAGCGACCCAGTCTCCGATTTTACCACGCTACGGCAC
ACTGATGGAGGGTAAAGCGCAAGAAGCCCTTCGGGAGTTTGGAGCCATTAACAACAAGACGTGTCA
CTGTGTTCTCTGATGGCGCTGATGTATGCCATAAAATGAGCCCCAATCCAGACAGAGAAGCTATCTGG
AATTAGATACAAAATGAAGGAGCAACGCAAGGAGGCTGGACGCAAGCCCTGTACCATGCGGGCCTGTT
TTTATGGCACATTGGTCGTCATGACAAGGCGAGAGAATATATTGACAGAAATGTCAAAAATGCCACATGAT
AGCAATGAGGGGCGGATTTTGAAGCGTGGCTTGATATTACAAGAGGGAAGGAACCTTATGCTAAAAAAG
CCCTGCGGTATTTGAGGAGGGATTACAAGATGGAAATGATATTTTCGCTCTTCTGGGTAAGGTTCTGTG
CCTTGAGATTCGACAGAAATATTCGGAGCTCTGGAGACCGTGAGCCAGATAATTGTAACCTTCCAAAGC
TTCCTTCTGCCTTTGAGAAGAAAATGAAATTACAACCTGGCTTACAGGATTGGGATCAGACAGTGGAGA
CAGCACAAGGCTGCTGCTTCAAGACAATCACACGTTGGAGGCGCTGAGGATGCTGGCTCTGTATTATCT
GTGTAGGGAAGGGGACGTAGAGAAGGCTGCTACCAAGCTGGAAAATTTAGGAAATGCATTGGATGTCATG
GAACCACAGAATGCTCAACTTTTTTATAAGATTACACTAGCCTTCAGCAGAACGTGTGGACGTAATCAAC
TCATTCTCCAGAAAGTTCAAAGTTTCTAGAAAAGCATTTAGTTTAACTCCCAGCAAGCAGAAATTGC
TACAGAGCTCGGCTACCAATGATTCTCCAAGGCAAGGTCAGGAGGCGCTGGAAGTGGTACAGGACCGCC
ATGACGCTGAATGAGAGCAACATCTCTGCTGTACCCGACTTATCCGATGTCAGTTAATAGAGGGCAGT
TGCAAGATGCAGACCAGCAGTTGGAGTTCTTCAGTGAATCCAGCAGTCAATGGGAAAATCTGCGGAATT
AATGTATTTGCATGCGGTTCTTGCTACGAAAAAATAATCGTCAGGATGAAGTTATAAATTTGTTGAAT
GATGTTGTGAATACTCACTTTTCACTTGAAGACCTCCGCTCGGCATACAGTATTTTGAAGAAGTCA
ACCCTGACTTCTACTAGAAGTTGTTACCGAGTATCTGAATCTCTGTCCAATTCAGCCTGCAGGTCCTGG
ACAACCTTTTCCAGTCTCAGACGTTGTTCTTCAGTCTGGAGACGATTATAAGAAGTACCAGGT



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CTTCCACAAGCTGTCTTCTAATGGCCAAAGTGAAGTATTTGTCAGGTGACACTGAAGCGGCATACAACA
 ATCTGCAGCACTGCCTCGAGCACAGCCCCTCTATGCGGAGGCTCACCTCCTGATGGCACAGGTGTACCT
 GTCCCAAGACAAAGTCAAGCTGTGTTCCGAGTCGCTTGAACCTTTGTCTGAGCTACAATTTAATGTGAGA
 GAGTACCATTATATCATTTAATCAAAGCACAGTCACAAAAGAAAATGGGGGAAGTAGCAGAAGCAATTA
 AAACCTGCACATGGCAATGAACCTGCCAGGAATGAGGAGAAGCAGAGCCTCCTCGAAATCAAAGCACAG
 AACTGAGGTGGACGCGAGCCATCGGTTATCCATCTTCTGGAGTTGGTGGAGGTCCACCGCTTAAATGGA
 GAACAGCATGAGGCAGCAAAGGTTTTACAGGATGCCATCCATGAGTTTTCGGGAACCTGTGAAGAATTAC
 GTGTCACTATTGCTAATGCAGACCTGGCTCTGGCCCAAGGAGATACGGATCGTGCATTAAGCATGCTTCG
 AAATGTCACAACCGAACGCCTTATTTTATAGAGGCCAAAGAAAAGATGGCAGATATTTATCTGAAGCAT
 AGGAAAGAGAAAATGTTGTATATCACTTGTACAGAGAAATTGCTGAGAGAATGCCAGTCCCGGTCTT
 TCCTGCTCCTCGGCGATGCGTACATGAACATTCAGGAGCCAGAAGAAGCCATAGTGGCCTATGAGCAAGC
 ACTCAATCAGAACCCCAAAGATGGAACACTGGCAAGAAAATTGGAAAAGCACTTGTCAAACTCACAAT
 TACTCAAAGGCAATCACCTATTATGAAGCGCTCTGAAAAGTGGACAGCAGAATTGCCTTTGCTATGACC
 TGGCCGAGCTGCTACTGAGACTGAAGCTGTACGAGAAAGCAGAGAAAGTCTCCAGCACTCTCTAGCTCA
 TGAGCCTGTAAGTGAGTTGTCAGCTCTCATGGTGGATGGGCGGTCCCAAGTCCTTCTTGCAAAGTTTAC
 TCTAAAATGGAGAGACCCAGCGACGCGATTGCCGATTACAGCAGGCTCGAGAGCTGCAGGCTCGGATAT
 TGAAGCGAGTTCAGATGGAGCAGCCAGATGCAGTTCCTTACAGAAAACACTTCGCAGCTGAAATTTGTGC
 AGAGATTGCGAAACACTCCGCGCTCAGCGAGACTATGAGAAAAGCAATTACATTTTATAGAGAAGCCCTG
 GTTCATTGTGAAACAGACAGTAAGATAATGTTGGAACCTGGCGAGTTATACCTGGCCCAAGAAGACCTTG
 ACGCCTCCTGCGACACTGTGCGCTGCTTCTCCAGAGGGACCAGGACAATGAACCTGCCACCATGTTGAT
 GGCCGACCTCATGTTAGAAAAGCAAGACTATGAACAAGCAGTGTATCATCTGCAGCAGCTTTTAGACCGG
 AAACCAGATAATTTTATGACTTTGTCCCGTTTGATTGATCTCCTGAGAAGATGTGGGAAACTTGAGGATG
 TTCCGAGATTTTCTTGATGGCTGAGAAAACACAACCTCCAGAACAAAATTGGAGCCAGGATTTTCAGTACTG
 TAAAGGATTACATTTTTTGGTATACTGGAGAACCAATGATGCCCTTCGACATTTTAAATAAGCTCGGAAA
 GATAGTACTGGGTGAGAATGCACTTTATAATATGATAGAAATCTGCCTAAATCCAGACAATGAAACTA
 TTGGAGGTGAAGTGTGAAAACCTGAATGGAGACCTGGGCACTTCCCCTGAGAAGCAGGAGTCTGTGCA
 GTTAGCAGTGAGGACAGCAGAAAAGCTCCTTAAGGAACTGAAGCCTCAGACCGTCCAGGGCCGCTGCAA
 CTCCGCATAATGGAAAACCTGCTGCTTGTGGCCACCAAGCAGAAGTCCAGTGTGGAGCAGGCACTGAACA
 CCTTACCAGAAATCGCAGCCTCCGAGAAGGATCATATCCAGCTCTCTTGGGAATGGCAACGGCTTATAT
 GATCTTGAACAGACTCCAAAAGCCAGAAACCAGCTGAAGCGGATTGCAAAAATGCCTTGGAACTCCTATT
 GAAGCCGAGGATCTGGAGAAGAGCTGGCTGCTGCTGCTGATATTTATATCCAGTCAAGAAAATATGACA
 TGGCAGAGGAATTAATAAGCGGTGCTCTGCCATAACCGGTCTGCTGCAAAGCTTATGAATATATGGG
 GTACATTATGGAGAAAGAGCAAGCATACACAGATGCGGCCTTCAACTATGAGATGGCATGAAAACATAGC
 AACCGACAAATCCTGCAGTGGTTCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001290669
- Insert Size:** 3810 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001290669.1, NP_001277598.1</u>
RefSeq Size:	4402 bp
RefSeq ORF:	3810 bp
Locus ID:	73668
Cytogenetics:	2 C1.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct C-terminus and is shorter than 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.</p>