

## Product datasheet for MR217798

### Ttc21b (NM\_001047604) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc21b (NM_001047604) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttc21b
Synonyms:	2410066K11Rik; aln; mKIAA1992; Thm1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR217798 representing NM_001047604 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ATCTGCAGCACTGCCTCGAGCACAGCCCCCTCTATGCGGAGGCTCACCTCCTGATGGCACAGGTGTACCT  
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Protein Sequence: >MR217798 representing NM\_001047604  
 Red=Cloning site Green=Tags(s)

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 VHCETDSKIMLELAQLYLAQEDLDASLRHCALLQRDQDNEPATMLMADLMFRKQDYEQAVYHLQQLLDR  
 KPDNFMTLSRLIDLLRRCGKLEDVPRFFLMAEKHNSRTKLEPGFYCKGLHFYWTGEPNDALRHFNKARK  
 DSDWGQNALYNMIEICLNPNETIGGEVFENLNGDLGTSPEKQESVQLAVRTAEKLLKELKPQTVQGRLO  
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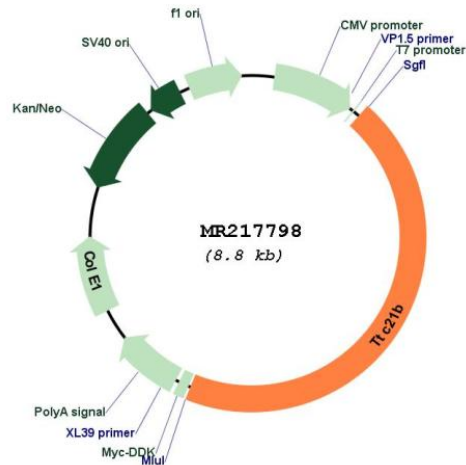
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001047604

**ORF Size:** 3945 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** 4472 bp

**RefSeq ORF:** 3948 bp

**Locus ID:** 73668

**UniProt ID:** [Q0HA38](#)

**Cytogenetics:** 2 C1.3

**MW:** 151.2 kDa

**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]