

Product datasheet for MC224225

Ttbk2 (NM_080788) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttbk2 (NM_080788) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttbk2
Synonyms:	2610507N02Rik; AI326283; B930008N24Rik; mKIAA0847; Ttbk; Ttbk1; TTK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224225 representing NM_080788 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGACTAGCCAACCGACGCCACAGGCTGGGAACGTGCTCTCCAATCAGCACCCGCGGGAGAGAATT
GTAAAACCGGTAAGATCAAGTGCCTATTGAAAGAGACTCACTCTTGGCTAAGAAGAGAAAATAGGAAATAG
GTTAAATGGAATCCACCCTTGGGAGCTAGATGCCTGTGTAGCTGTTTTACCTCATCAGGGTTTTGCAATG
AGTGGAGGAGGAGAGCAGCCAGATATCCTCAGTGTGGAATCCTGGTCAAAGAAAGATGGAAGTGTAA
GAAAGATTGGAGGTGGGGCTTTGGAGAAATTTACGATGCCTTGACATGCTCACCAGGGAGAATGTGGC
GCTGAAGTGGAGTCACTCAGCAGCCAAAGCAGGTTCTGAAGATGGAGGTTGCTGTGTTGAAGAACTG
CAAGGGAAAGACCATGTTGTAGATTTATTGGCTGTGGGAGAAATGATCGTTTTCACTACGTGGTCATGC
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CCTTCGTCTTGGGAAACAGATTCTGGAGTCTATTGAAAGCATACATTCTGTGGGATTCTTCACAGAGAC
ATCAAACCGTCAAACCTCGCCATGGGACGTTTCCCGTACATGTAGGAAATGTTCAAGCTTGTATTTTG
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GACAGTTTCGTTATGCATCAATCAATGCTCATCGGAACAGGGAAATGGGAAGACATGATGACCTTTGGTCT
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TCTTGACCATATTTCTCTTTGGATTATTTACAAAACCGGACTACCAGCTTCTAACATCCGTGTTTGAC
AATAGCATCAAGACCTTTGGAGTAATTGAGAGTGACCCGTTTGACTGGGAGAAGAGTGGAACTGATGGCT
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CAGCCCTCAGGAAAAGGATGTCTGGGAAGAGATGGATATCAACAAGAACAAGATAAAGCTGGGAATTTG
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TCACCAATTCGTGTCGATCAGAGATTACTCAGCCAGACAGAGATGTTCCGTTAGTAAGGAAGCTACGTT



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CTATTCACAGCTTTGAGCTGGAAAAACGTTTGACACTTGAGCCAAAGCCAGATACTGACAAGTTTCTGGA
 GACCTGCATGGAGAAAATGCAGAAAAGTTCCAGTGCAGGAAAAGAACCTGTCCCCCTGCTCTGCCTCAT
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 ATTCCAAGGCCAGTATCCTGGGTCAGCACAGATCAAATTAATGGCTCCGCTTACCTCAGTTCTTGCCTC
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 GAGTAGTAACTCTGACTCAGACCTTTTCTCTCGCCTGGCCAAAATTTCTCAAATGGATCTCAGAAATCC
 CGGAGTACTACCAATGCAAGAGCCAGGATCTCCTCACAATCCAAAAACACCACCAAGAGTCCAGTTG
 TACCTCGAAGGAGTCCCAGTGCCTCTCCTCGAAGCTCATCCTTGCCTCGAACATCTAGTTCTCACCATC
 TAGGGCTGGACGGCCACCACATGACCAGAGGAGTTCTTCCCCACATCTGGGGAGAAGCAAGTCAACCCCT
 AGCCACTCAGGATCATCGTCTCCTCCAGGAGTCTGCCAACAGGAGCATTGCAAACCCAGCAAGAATGGCC
 CAAAAGGATCTGGCAGCCTCCACCACACTCAACCAGCTCTAAAACCTCCCCAGGGAAGAGTAAGCCAGC
 CAGTAACTCAGCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_080788
- Insert Size:** 3939 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_080788.3](#), [NP_542966.2](#)

RefSeq Size: 10906 bp

RefSeq ORF: 3939 bp

Locus ID: 140810

UniProt ID: [Q3UVR3](#)

Cytogenetics: 2 E5

Gene Summary: Serine/threonine kinase that acts as a key regulator of ciliogenesis: controls the initiation of ciliogenesis by binding to the distal end of the basal body and promoting the removal of CCP110, which caps the mother centriole, leading to the recruitment of IFT proteins, which build the ciliary axoneme. Has some substrate preference for proteins that are already phosphorylated on a Tyr residue at the +2 position relative to the phosphorylation site. Able to phosphorylate tau on serines in vitro.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1).