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Product datasheet for MC229513

Ttbk2 (NM_001024857) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttbk2 (NM_001024857) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttbk2
Synonyms:	2610507N02Rik; AI326283; B930008N24Rik; mKIAA0847; Ttbk; Ttbk1; TTK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC229513 representing NM_001024857
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGGAGGAGGAGAGCAGCCAGATATCCTCAGTGTTGGAATCCTGGTCAAAGAAAGATGGAAAGTGT
TAAGAAAGATTGGAGGTGGGGGCTTTGGAGAAATTTACGATGCCTTGGACATGCTCACCAGGGAGAATGT
GGCGCTGAAGGTGGAGTCAGCTCAGCAGCCAAAGCAGGTTCTGAAGATGGAGGTTGCTGTGTTGAAGAAA
CTGCAAGGGAAAGACCATGTTTGTAGATTTATTGGCTGTGGGAGAAATGATCGTTTCAACTACGTGGTCA
TGCAATTGCAGGGACGGAATCTGGCAGATCTCCGCCGTAGCCAATCCCGGGGCACATTCACTATTAGCAC
TACCCTTCGTCTTGGGAAACAGATTCTGGAGTCTATTGAAAGCATACATTCTGTGGGATTCCTTCACAGA
GACATCAAACCGTCAAACTTCGCCATGGGACGTTTCCCCAGTACATGTAGGAAATGTTTCATGCTTGATT
TTGGCTTGGCTCGACAATTTACTAATTCCTGTGGTGACGTCAGACCACCTCGTGCTGTGGCAGGCTTTCG
AGGGACAGTTCGTTATGCATCAATCAATGCTCATCGGAACAGGGAAATGGGAAGACATGATGACCTTTGG
TCTTTATTCTACATGTTGGTGGAGTTTGTGGTTGGCCAACTGCCTTGGAGAAAAATAAAGGACAAGGAGC
AAGTAGGCTCCATTAAGGAGAGATATGACCACAGGCTCATGTTAAAACACCTCCCTCCAGAATTCAGCAC
CTTTCTTGACCATATTTCCTCTTTGGATTATTTTACAAAACCGGACTACCAGCTTCTAACATCCGTGTTT
GACAATAGCATCAAGACCTTTGGAGTAATTGAGAGTGACCCGTTTGACTGGGAGAAGAGTGGAACTGATG
GCTCCCTGACAACCACCACCACCTCTGCCACCCCTCAGCTGCACACCCGCCTGACCCCTGCTGCTATCGG
AATTGCAAATGCCACCCCCATCCCAGGAGACTTGCTTCGAGAAAATACAGATGAAGTGTTTCCAGATGAA
CAGCTTAGTGATGGGGAGAACGGAATCCCTGTTGGTGTATCACCAGATAAATTGCCTGGATCTCTGGGGC
ACCCACGCCCTCAGGAAAAGGATGTCTGGGAAGAGATGGATATCAACAAGAACAAGATAAAGCTGGGAAT
TTGCAAAGCAGCTACTGAAGAAGAAAATAGCCATGGTCAAGTAAATGGCATACTCAATGCTCCAAGCCTT
GGTTCACCAATTCGTGTCCGATCAGAGATTACTCAGCCAGACAGAGATGTTCCGTTAGTAAGGAAGCTAC
GTTCTATTCACAGCTTTGAGCTGGAAAAACGTTTGACACTTGAGCCAAAGCCAGATACTGACAAGTTTCT
GGAGACCTGCATGGAGAAAATGCAGAAAGATTCCAGTGCAGGAAAAGAACCTGTCCCCCCTGCTCTGCCT

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CATAAGCCGTGTGTCCCCGTCGTGACCCACACTGACCACATCTGGCACTATGATGACGAATATCTTCCTG
ATGCCTCCAAGCCTGCCTCTGCCAACACCCCGGAGCAGGCAGATGGTGGTGGCAGCAACGGATTTATAGC
TGTTAACTTAAGCTCTTGCAAACAGGAGGTTGATTCCAAAGAATGGGTGATTGTGGACAAGGAGCAAGAC
CTTCAGGACTTTAGGACAAATGAGGTGTTAGGCCATAAGACAACTGGAAGCCCTTCAGATGAGGAGCCTG
AAGTGCTTCAGGTCCTTGAGGGATCACCTCAAGATGAAAAGATCCAAGTAGGTCCTTGGACTGACAACCA
TCACTTAAAGAAGGAAAGCTCAGGTGTGGTTTTAGCACTTTCTGCTGAATGCCCTGCTACTGCTGCTTCA
GAACTGTACACAGATAGGCTAGACCTCCAGGCTGGAGCTGCAAGTCAGTTCATCACAGTGACTCCCACAA
GTCCCATGGAGGCACAAGCAGAAGGACCCCTGACTGCGATTACAATTCCTAGACCTTCTGTGGCATCAAC
ACAGTCAACTTCAGGAAGCTTTCACTATGGCCCACAACCAGAGAAGAAAGATCTTCAGCCCTTGGAGCCC
ACTGTAGAACTGTACTCTCCAAGGGAGAACTTCTCCGGCTTGGTTGTGACAGAGGGTGAACTAGCTAGCG
GAGGAAGCAGAGTGGATTTGGGACTTCAGATAGATCACACTGGTCATGACATGTTACCCAACATGAGAGA
TGGTGACACATCTCAAGACTTGGGACCAAAAGACCCTCCTGACCATAATAGATTAGCTGTGAAAGAATTT
GAACATCTCCCTGGAGAAACAGAAGAGAGAAGCCTTCTTCTGGGCTCAGAGAATGAAGATGAGAGGTTAA
GTAAAGGGCAGCACTGTATTGAAGTCTCTTCCCCAGGAGAGTTAGTGACTGCAGAGAGGGCTCAGTTAGC
TGCCACAGAACCTCTGCATGTATCAGAGACACAGAACTGTAGTGTGCTACCAAATCAGGACAAAACCCAT
GAGATAATGAAGCTTTTGGCAGTTGGAACTTCAGAAATTTCTCCTCAAGCCATTGACCCACATGCTGAAG
GGCAGATAGGCCAGATGGCAGCAATGCAGAAAAATAAGCTATTTAAAGATGATGGTATTCAGAGTGAAAG
CTTGCCAAGGCAGCAGGGAGACCTCTCTGCTTTTTTGCACCAAGAGGGTAAGAGAGAGAAAGTTGTCCCT
AGAAATGGAGAGCTCTATCATTGTGTCTCAGAGAATGAGCATGGTCCTCCTACTCGGAAGGACATGCTCC
GGTCATCCTTTGTGACCAGGCACAGCCGGATCCCTGTTTTAGCACAAGAAATAGACTCAACTTTTGAATC
ATCCTCTGCTATTTCTGCAAAAGAAAAGCTTCTACAGAAGAAAGCCTATCAGCCAGAAATAGTCAAACTT
CTTGTAGAAAAAAGGCAGTTCAAGTCTTTCCTGGGAGACCTCTCAAGTGCCTCTGATAAGCTGATAGAGG
AGAAACTAGCCGCTGTTCCAGTCCCTTTTTCTGAGGAGGAAGTCTTCGCTCCCTTTTCTAGACTGGCAGC
AGATTCCCACCTGAGTAGATCAGTTGAAGATAGCTTTCTGTCACCCATCATCTCCCAGGCTAGAAAGAGC
AAGATTCCAAGGCCAGTATCCTGGGTCAGCACAGATCAAATTAATGGCTCCGCTTCACCTCAGTTCTTGC
CTCGGCCACCACCAGGAAAGCCACCAGTCAGGCCTGGAGTAGAAGCCAGGCTACGCAGATATAAAGTTCT
AGGGAGTAGTAACTCTGACTCAGACCTTTTCTCTCGCCTGGCCCAAATTCTTCAAAATGGATCTCAGAAA
TCCCGGAGTACTACCCAATGCAAGAGCCCAGGATCTCCTCACAATCCAAAAACACCACCCAAGAGTCCAG
TTGTACCTCGAAGGAGTCCCAGTGCCTCTCCTCGAAGCTCATCCTTGCCTCGAACATCTAGTTCCTCACC
ATCTAGGGCTGGACGGCCCCACCATGACCAGAGGAGTTCTTCCCCACATCTGGGGAGAAGCAAGTCACCC
CCTAGCCACTCAGGATCATCGTCCTCCAGGAGGTCCTGCCAACAGGAGCATTGCAAACCCAGCAAGAATG
GCCCAAAAGGATCTGGCAGCCTCCACCACCACTCAACCAGCTCTAAAACTCCCCCAGGGAAGAGTAAGCC
AGCCAGTAAACTCAGCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001024857

Insert Size: 3732 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:	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_001024857.2, NP_001020028.1
RefSeq Size:	11078 bp
RefSeq ORF:	3732 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 (3) is missing a non-coding exon compared to transcript variant 2. Both variants encode the same isoform (2).