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Product datasheet for MR227113

Ttbk1 (NM_001162864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttbk1 (NM_001162864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttbk1
Synonyms:	AU017937; AW048023; C330008L01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227113 representing NM_001162864, codon optimized.
Due to the complexity of NM_001162864, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAATGCCTTGCAGCTGCTCTGAAGGACGAGACTAACATGTCAGGCGGTGGGGAGCAAGCGGACATTC
TGCCTGCGAACTATGTGGTTAAAGACCGGTGGAAGGTGCTGAAAAAGATCGGAGGAGGCGGATTCGGGGA
GATCTACGAGGCAATGGATCTGTTGACACGAGAGAATGTAGCCCTTAAGGTGGAGAGTGCCCAGCAGCCG
AAGCAGGTCCTGAAGATGGAGGTGGCCGTCCTTAAGAAGCTGCAGGGCAAAGACCACGTTTGTCGATTCA
TCGGCTGCGGGAGAAATGAAAAATTTAATTACGTGGTCATGCAGCTCCAGGGACGGAACCTCGCCGATCT
TCGAAGATCTCAGCCACGGGGCACATTTACGCTGTCCACAACTTTGCGGCTGGGCAAGCAGATCCTTGAG
TCTATTGAGGCCATTCACAGCGTGGGATTCCTTCACAGAGATATCAAGCCGTCTAACTTTGCAATGGGGC
GCCTCCCTTCTACATACCGGAAATGTTACATGCTTGATTTTGGCCTTGCCAGGCAGTACACCAATACCAC
CGGGGACGTGCGGCCACCCAGGAACGTGGCAGGATTCCGCGGGACAGTGCGGTATGCCTCTGTTAATGCC
CACAAAAATCGGGAGATGGGGCGCCATGATGACCTGTGGAGCCTGTTCTATATGTTGGTGGAATTCGCGG
TGGGACAGCTGCCATGGCGCAAGATCAAGGACAAGGAGCAGGTGGGCATGATCAAAGAGAAGTATGAGCA
TAGGATGTTGCTCAAACACATGCCCAGCGAGTTCCATCTGTTCCTTGACCACATCGCAAGCCTCGACTAC
TTTACAAAGCCTGATTACCAGTTGATTATGTCAGTTTTCGAGAACAGCATGAAGGAACGAGGAATCGCAG
AGAATGAGGCTTTCGACTGGGAGAAGGCCGGCACAGACGCTCTCCTGTCAACAAGCACCTCTACCCCCCC
TCAGCAGAACACTAGGCAGACTGCTGCCATGTTTGGAGTGGTCAATGTTACACCCGTCCCAGGTGACCTT
CTCAGGGAGAACACTGAAGATGTCCTTCAGGGGGAGCATTTGTCTGATCAGGAAAACGCTCCTCCGATTC

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TCCCCGGAAGACCGCCCGAAGGCCTGGGCCCTGGACCCCATCTTGTGCCTCATCCAGGAGGTCCTGAGGC
CGAGGTGTGGGAGGAAACCGATGTGAATCGGAACAAGCTTCGAATCAACATCGGAAAAACTCCATGTGTC
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CGGTCGGGTTGAGCTTCAGGAACGGCGATCCAGGATGGACCTGCCTGGTTCACCATCTAGGCAAGCATGT
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GGATCCTAGGCAAATGCTCCCCCAGCCCGCTCCACCACAGCTGTCCCAGGCTGACGGCCGCAGCGAGACA
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TCTCGCGGCGTCCTCCAGGTGCGGTCCCAACCAGAGGCAAGTCCTGTGGCCCCTAAGAAGGGGCCTAAGG
GAAAGCAGCTGCAGACTCAGCGGGCCGCCACAAAGGGCCGGGCCGTAGTATCTGAGGGCAGGCCTGGGGC
AAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227113 representing NM_001162864
Red=Cloning site Green=Tags(s)

MQCLAAALKDETNMSGGGEQADILPANYVVKDRWKVLKKIGGGGFGEIYEAMDLLTRENVALKVESAQQP
KQVLKMEVAVLKKLQGKDHVCRFIGCGRNEKFNYVVMQLQGRNLADLRRSQPRGTFTLSTTLRLGKQILE
SIEAIHSVGFLHRDIKPSNFAMGRLPSTYRKCYMLDFGLARQYTNTTGDVRPPRNVAGFRGTVRYASVNA
HKNREMGRHDDLWSLFYMLVEFAVGQLPWRKIKDKEQVGMIKEKYEHRMLLKHMPSEFHLFLDHIASLDY
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LRENTEDVLQGEHLSDQENAPPILPGRPPEGLGPGPHLVPHPGGPEAEVWEETDVNRNKLRINIGKTPCV
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SSQPAQMLSVDTGHADRQASGRMDVSASVEQEALSNAFRSVPLAEEEDFDSKEWVIIDKETELKDFPPGA
EPSTSGTTDEEPEELRPLPEEGEERRRLGTEPTVRPRGRGMHTLTEEDPRQMLPQPAPPQLSQADGRSET
SQPPTPGSPSHSPLHSGPRPRRRESDPTGPQRQVFSVAPPFEVNGLPRAVPLALPYQDFKRDLSDYRERA
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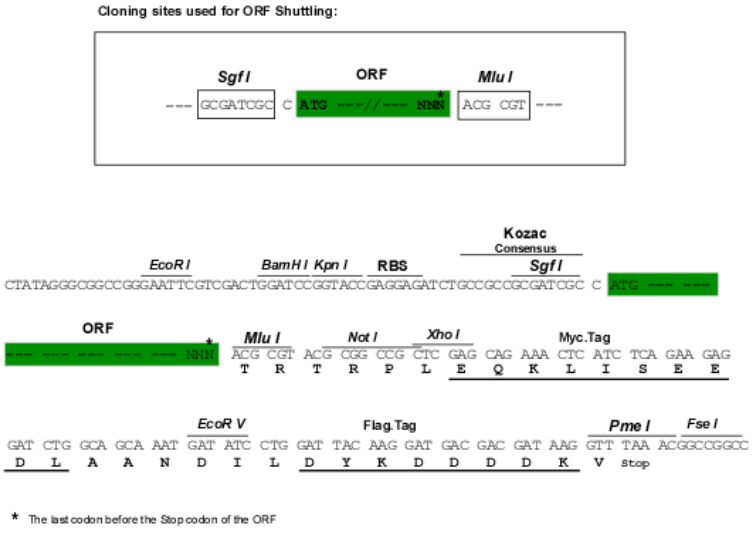
ALGEVLGPRSGSSSEGSERSTERSQEGAPSTLLADDQKEARGRASMADGDLEPEEGSKTLVLVSPGDMKK
SPVTAELAPDPDLGTLAALTPQHERPQPTGSQLDVSEPGTLSSILKSEPKPSGPGAGGGVGLVAPGAGVT
AVTSPFTKVERTFVHIAEKSHLNVMSSGGQASRPEELSTGGELGLEVLSEGGIAEEGAPAPLENGMALAG
LDGTEMESCALSGPPGETPSEVVTDSLPNGPALADGPAPASQQEPVTKKGTTISPSRHAMPGSRPRSRIP
VLLSEEDTGSEPSGSLSAKERWSKRARPQQDLARLVMEKRQGRLLLRLASGASSSSSEEQRRASETLSGT
GSEEDTPASEPTTALPRKAVRAATTRSRIPRPISVSMPVEGQQLPGRPHGAASATDLAITSRLQLQKPSG
LAPAADLRPKQSASRGPGPGRAQVSKPAAPRSPGLPASTARHPSGSPRSQSLSRKESSSPSHQARPGVPP
SRGVLQVRSQPEASPVAPKKGPKGKQLQTQRAATKGRAVVSEGRPGAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

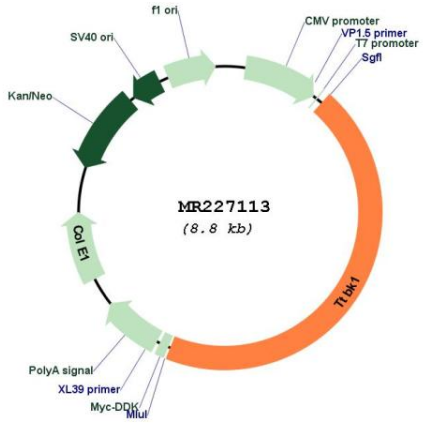


ACCN: NM_001162864

ORF Size: 3924 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_001162864.1, NP_001156336.1
RefSeq Size:	6959 bp
RefSeq ORF:	3927 bp
Locus ID:	106763
UniProt ID:	Q6PCN3
Cytogenetics:	17 C
MW:	141.6 kDa
Gene Summary:	Serine/threonine kinase which is able to phosphorylate TAU on serine, threonine and tyrosine residues. Induces aggregation of TAU (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227113