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Product datasheet for SC309233

Tau tubulin kinase 2 (TTBK2) (NM_173500) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tau tubulin kinase 2 (TTBK2) (NM_173500) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tau tubulin kinase 2
Synonyms:	SCA11; TTBK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_173500 edited
CCGCCGCCAGTAAACGCGGACCGTACCCCAGGGGACTACCCAGCCGGCCGGCCCTGGAAG
CCGCGCTCGGGTCCCGCCGCAGTCGGCGGTGGGGGATGGGCAGGCAGTGGCGGTCCCGCC
TGCCGAGGGTTAACCCCCGCCGGTCCCGGTCCTGAGCTGGACCAGAGCCCTCCTCCAGAA
ACCCCTGCGTCCGCCACGGCCCAGGTTAAATGGAAACCACCCTTGGGAACTGGATGCCTG
TGTAGCTGTTCTACCATATCAGTGTATTGCAATGAGTGGGGGAGGAGAGCAGCTGGATAT
CCTGAGTGTTGGAATCCTAGTGAAAGAAAGATGGAAAGTGTTGAGAAAGATTGGGGGTGG
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GGCAAATGGTCTTCTCAATGCTCCAAGCCTTGGGTCACCAATTCGTGTCCGCTCAGAGAT

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TACTCAGCCAGACAGAGATATTCCACTGGTGCGAAAGTTACGTTCCATTCACAGCTTTGA
GCTGGAAAAACGTCTGACCCTGGAGCCAAAGCCAGACACTGACAAGTTCCTTGAGACCTG
CCTGGAGAAAATGCAGAAAGATACCAGTGCAGGAAAAGAATCTATTCTCCCTGCTCTGCT
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ACCTTATTAAGGTCAGGTAAATTGGTCTGCTTGCTGTTGAAATTTGCCTTCTAGCAAACA
TATGTGCTTTCTGTTTGACCTTGTGTTTGCTGCCAAACCTAATACAGTTGAATTGGGAAA
CAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173500 unedited
CTTATACCCCCGCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCC
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CTTGGGGGAGCCGGCAGCAGCAGTAACAGCAGCAGCAGCCGCCGCCGCCGCCAGTAA
ACGCGGACCGTACCCCAGGGGACTACCCAGCCGGCCGGCCCTGGAAGCCGCGCTCGGGTC
CCGCCGCAGTCGGCGGTGGGGGATGGGCAGGCAGTGGCGGTCCCGCCTGCCGAGGGTTAA
CCCCCGCCGGTCCCGGTCCTGAGCTGGACCAGAGCCCTTCTCCAGAAACCCCTGCGTTCG
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CCATATCATCGCATTGCAATGAGTGCCGGACGACAGCCGCCTGATATCCCGCGTGGTGGG
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ACATAATCCTCCTCTTCCCTCTTCTCATGCCCAATCCGCTCTCCCCGGGGATATACTCCC
CCTCCACCATCCTTTTTCAAAAGGCACTCTCCGTTCCAAAAAACTTCCCCGGTAAAACTC
CCTCCCCTACATCAATGCGTCGGCGCGGCAATCCTTTCTTACCCTTCCCTCCTTCTTCCC
CTTCCCGCATCCTCTTAACCTTCGTGTTCTCCCGCCTCGGCCTTATCACCCTACATCCCC
ACCCGCCGCGGTAACGAACCTGCGCTCCCT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_173500 unedited
GGATTACATGNACGCGGCCGCTTTCTANGATCGAGTTTTTTTTTTTTTTTTTGTTTCCC
AATTCAACTGTATTAGGTTTGGCAGCAAACACAAGGTCAAACAGAAAGCACATATGTTTG
CTAGAAGGCAAATTTCAACAGCAAGCAGACCAATTTACCTGACCTTAATAAGGTCTTTAC
AACACAAAACACCTAGAGAGTATAAAAACAGCCCATTTTAAAAGTCTGGTAGACTTTCAT
TTGCCTGATTCCTATTAGAAGAGTGAGATTAGAACAAATATCTTCCTCTTTACAGCTTCG
TAAATTGAGATTGTATGAAAATCAGGCCAAGAAGCCCAAATGTTGAACTAAAACACAGGA
GAAGCAGGTAATAAAACATTAAAAAAGAAATATTTGCCTAAATTTATTTCCCCAGATATT
AATTCCTTATTGGCTAAATGTATAAAATACAAAGTTTGAGGATTCTAAGCCTCAATAATA
TATCTAATTTATTTCTAAATCTCAAATCACAGTCCAAAGCATTGGGCTTCCCTCGTATCA
TCTTGGATGCTGATATTACCAACAGTTGGGACCCCGAAGACTTAAGGAAGCAGCCTACTC
TGGGCAGTTTTTCCTCTACCTCAATTTTTAAAGGGAGGACCCTTAACAAAGATTGAAAGG
GGATCTTTCTATTCTTGAAGGCGTTTTAACCCCCACCTTTTTTTTTTTTCCTAAAAACTA
AAAGCCTGGAAAAAAAGCCCCTAGGTAGAACTTTTTTTTTCCTTTCCCTCACCTTTCCTA
ATTTTTTACATAATAAAAAAGGGAAATATGGTTTAAAAAATTCTGGCTCTAAAAAAAAAA
AAATACGAGGGGACACTAAAAAAAAAATAATTGGCGTTTTTGAGGCCCACCCCGGGGCCC
TATAAATAAAAGCCGAGAAGTTTGGGT

Restriction Sites: NotI-NotI

ACCN: NM_173500

Insert Size: 6000 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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_173500.2, NP_775771.2
RefSeq Size:	5613 bp
RefSeq ORF:	4950 bp
Locus ID:	146057
UniProt ID:	Q6IQ55
Cytogenetics:	15q15.2
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a serine-threonine kinase that putatively phosphorylates tau and tubulin proteins. Mutations in this gene cause spinocerebellar ataxia type 11 (SCA11); a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem. [provided by RefSeq, Aug 2009]