

Product datasheet for **SC115956**

JTB (NM_006694) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JTB (NM_006694) Human Untagged Clone
Tag:	Tag Free
Symbol:	JTB
Synonyms:	hJT; HJTb; HSPC222; PAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115956 sequence for NM_006694 edited (data generated by NextGen Sequencing) ATGCTTGCGGGTGCCGGGAGGCCTGGCCTCCCCAGGGCCGCCACCTCTGCTGGTTGCTC TGTGCTTTCACCTTAAAGCTCTGCCAAGCAGAGGCTCCCGTGCAGGAAGAGAAGCTGTCA GCAAGCACCTCAAATTTGCCATGCTGGCTGGTGAAGAGTTTGTGGTAGCAGAAGAGTGC TCTCCATGCTCTAATTTCCGGGCTAAACTACCCCTGAGTGTGGTCCCACAGGATATGTA GAGAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAGCTGCCGCTCAGCTTTG ATGGAACAACGCTTATTTTGAAGTTTGAAGGGGCTGTCGTGTGTGTGGCCCTGATCTTC GCTTGTCTTGTCATTCGTCAGCGACAATTGGACAGAAAGGCTCTGGAAAAGGTCCGG AAGCAAATCGAGTCCATATAG

Clone variation with respect to NM_006694.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006694 unedited
 TGTAATACGACTCACTATAGGGCGGCGCGAATTCGCACGAGCCGCGCGGAAGACTATAA
 GCGCCAGCGGGCGACGACCGAACGCCCCCGGAACACCGGGCCCCGAGCTCGGTCCCGCG
 CCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGCGGGAGCGGAGGTGAGCGGG
 CGCTAGGGCCGAGCCCCCGCGGCCCTTCTCCAGCGCCCTGCGGACCCCGCAGAAGG
 CGCTCGCTCCCTAGCCCGCAAAACATATCGATTTTTCTCGCTGTGGCAACGGGGACGT
 CCTGATAGATCCTCTGCTCCAATAGGCAACTCCGGCCTTCCCTGCCCTGACCTGGAACCT
 CTGGGAGGGCTGCAGAGTAAGTGCCGCTCTGCGCTCCGACGGAGGCACGAGGCCTGTGG
 AGTAGGTCCTCTGTTCCGACAGGTGCGACACTTGGCGCTCCATGCTTGCGGGTGCCGGG
 AGGCCTGGCCTCCCCAGGGCGGCCACCTCTGCTGGTTGCTCTGTGCTTTACCTTAAAG
 CTCTGCCAAGCAGAGGCTCCCGTGCAGGAAGAGAAGCTGTGAGCAAGCACCTCAAATTTG
 CCATGCTGGTGGTGAAGAGTTTGTGGTAGCAGAAGAGTGCTCTCCATGCTCTAATTTT
 CGGGCTAAAACTACCCCTGAGTGTGGTCCACAGGATATGTAGAGAAAATCACATGCAGC
 TCATCTAAGAAAATGAGTTCAAAAGCTGCCGCTCAGCTTTGATGGAACAAACGCTATTTG
 GNAAGTTCGAAGGGGCTGTCGTGTGTGGCCCTGATCTCGCTGGNCTGNCATCATTCTG
 NCAGCGACAATGGACAGAAAGCTCTGGANAAGGTCGAGCNATCGAGTCTATAGCTAC
 TTCCACCTTGATCCTGGTCTTAAGACCTACTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006694 unedited
 GCCGCTTACTAAAGTCGAGTTTTCTTTTTTTTTTTTTTTTTTTTCTTTTACTCTTTTAA
 TTCAGCTCATTATGATCTGAAAGAAGAAGAGGGGAAAAGGGGATTCCACCACAAGGCTC
 CAAAGAACCAAGAGTGCAATCAGTCCATTCCACTTTCACTGCCTGAAATAGGGTCTCTA
 AGACCCAGGATACAAGGGTGGAATGTAGCTATATGGACTCGATTTGCTTCCGGACCTTTT
 CCAAAGCCTTTCTGTCCAATTGTGCTGACGAATGATGACAAGACAAGCGAAGATCAGGG
 CCACACACACGACAGCCCTTCGAACTTCCAAAATAAGCGTTGTTCCATCAAAGCTGAGC
 GGCAGCTTTTGAACCTATTTCTCTTAGATGAGCTGCATGTGATTCTCTACATATCCTG
 GGGGACCACACTCAGGGGTAGTTTTAGCCCCGAACTTAAAGCATGGAGAGCACTCTTCTG
 CTACCACAACTCTTCCACCAGCCAGCATGGCAAATTTGAGGTGCTTGCTGACAGCTTCT
 CTTCTGCACGGAAGCCCTCTGCTTGCCATAGCTTTAAGGTGATACGCCACATCACCCCTC
 CAAAGGTGGCGGCCCTGGGGAAGCCAAGCCTCCCCGCCCCCAAACTTGGACGCCCAAT
 TGTACACCCTGGCGAAACAACGGACCTATCCACAGGCCCTTGGCCCCCTAGAAACCCAAA
 GCGCTCTTCCCTGCCCCCCCCCAAAATTACCCCTCCCAACCAAGAAACCCCGACTCCC
 CTATCCAACCACTCATCTCTCCCCCGCAACCTTTATACAAACAACCTTTCCTT
 CAGGCCTACGACGCAACGCCCTTCCGCGGACCACCACGACCAATAAGACCCCTGCCCC
 AACAACTCCCTCCCTCACTCACCTCAACCCTCCACATTACTACTCGCAGACACACTA
 AGCAGCCACACCACCTCCT

Restriction Sites:

ECoRI-NOT

ACCN:

NM_006694

Insert Size:

1100 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_006694.2](#), [NP_006685.1](#)

RefSeq Size: 1590 bp

RefSeq ORF: 441 bp

Locus ID: 10899

UniProt ID: [O76095](#)

Cytogenetics: 1q21.3

Protein Families: Transmembrane

Gene Summary: Required for normal cytokinesis during mitosis. Plays a role in the regulation of cell proliferation. May be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Increases AURKB activity. Inhibits apoptosis induced by TGFB1 (By similarity). Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential (By similarity).
[UniProtKB/Swiss-Prot Function]