

## Product datasheet for **SC103616**

### **BTBD7 (AK074354) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BTBD7 (AK074354) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTBD7
Synonyms:	FUP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK074354, the custom clone sequence may differ by one or more nucleotides

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AACGTTTTGGGGATGAAAGTCCACTCTTGACAATGAGACAGCCTGGGAGATGTCGCGTAAACAGTACACC
TCCTGCAGAAACCATGTTTACAGATCTGGACTCTTTTGTGGCCTTCCATCCACCCTTGGCCCTCCACCA
CCTCCCTACCACCCCCAGCTACCCCAATCCATAACCAACTCAAGGCAGGCTGGAAGCAAAGACCTCCCA
GTCAGCACCCCTTACGTTCAATTTCTTATCCCTGTAATCATTTCGCTGTTCCACTCCAGAACAGCTCCTAA
AGCTGGCCCTCCCCAGTCTACTTGCCGAGTGTAAAAGCTGCACCGCCTGATTGTACCAGCACTGCAGGA
CTGGGCAGACAGACGGTGGCTGCTGCTGCCGCCACCACCCTCAACAGCAACAGCAGCAGCAGCAGCAG
CATCTGAGAAGCAAGTGCGAACACAACCTGTGCTGAATGATCTGATGCCAGACATCGCGTGGGTGTGTC
CACACTGTCACTCAAGGACAGGAGGCTTCCAGAGCTTGTGTAGACACAGAATTAAGCCAGTCAGTTTTT
GAAGCAGGACCAGGGCTCCCCAGCATCTGTCGTATTCCACAGAGACATACACACTTCTCGGAAAA
AACACACACTAGAGCAAAAAACAGACACCAGAGAAAATCCACAGGAATATCCGGATTTCTATGACTTCTC
AAATGCTGCTTGACAGACCTTCTACTCCTGCTCTCAGCAGACGCACCCCTTCCCTTCGCAAGGTGGATAT
TTTGGTCCCGATCTGTACAGCCACAATAAGGCATCACCAAGTGGCTTAAAGTCAGCTACCTACCTGGTC
AGGCGTCTCTAAAAAACAGGAAGAAGCTAGGAGAGAATATCCACTTTCCCTGACGGGCATCTACACAG
ACAAAAGAATGAGCCGATACACCTGGATGTCGTTGAGCAACCTCCCAGCGGTGACACTTTCCTTTGGCA
GCCCCAGAAAAATGCTAGTACCGTCCAGCCATGTGAGGGGACGAACTGCAGTAGAACTGACTTGACTT
TTGGGCTGACTCCTAACAGACCTTCACTTTCTGCATGTAGCTCTGAAGCTCCCGAAGAGAGATCCGGTAG
AAGACTGGCAGACAGTGTGAGTCCCTGGGCCATGGAGCTCAGAGAAATACAGATTTGGAAAGGAAGATTCA
ATAAGCAGAGGAAGGAGGTCAACAAGCAAGCCGACTTCTCTACAAAAAGTCTGCCCTTGAGAGCAAC
CTCCAAGTCGTCTGTGCCTGAGATGTGAAACATCCCATTTTATGATGTAACCCAACAACCTACAGACCAG
TTCATCAATGCCAGCTGATAAAGTCCGTTTCCATGATTTTGTCTAGTTTTTGTGTATATATGTGTTTAT
TAGACATGGCATGCTAAGAAGTTTTGTTTTTTTTTTTTAATGTTGCATCTGTCTAATTTGTCTTTGAAC
AATTATGTCGGGAGGCATTTTTAAGAACAAGCAGGCTGGCACTTTTTATTTCTTTTACAAATGATGGAA
TTTTTTTGCACCTGTACATTTATTTTCTGTATTGATTTTATATCAGTATGTTAACTTTATTGCCACA
TTTTAAAGGACTGTATTTTACATACTTTTTGCACTTTACCTTTTCTACCAATCCATGTGCATTGGATTG
CACACTAAGATGTATTTTCTTACGAAATAGTTCTGTGTTATTTTTAATTATAGAAATCCAAAGAACA
GCACATCAGAATGCTCCTCTCTTTTTCAGTAATTGTTTTAGTTTCCAGAGATCTTCCCGCTCAGCCTCCATAA
ATCTAATGTCATTTTTTTTTTAAATAAGTCTAGGAGCTGGGCTTCATTCTCCAGCGGGAGTCCAGTCA
GGGTCCTGAAGTTTGCTGGTTCAGGAAAGAACAGGAAAGGAAAAGCCTTCTGTGCCAGGCTAAAGCTG
TTACATTTCCACAGTGTGGATGCAGTCAGAATCCCTGCACATTCTGGTCATAAGGATTAGAGTACCAGA
TGAGGCTCTAAACAGATCGCATCCCTTGGAAATTAGAAAGCAGTGGAGACCGGGCGCAGTACTCACACCT
GTGATCGGCACCTCGGAAGGCCGAGGCGGGCAGATCACTGAAGCTCAGGAGTTCAAGACCAGCCTGGGCA
ACATGGCGAAACTCCTTTCTATAAAAAAAAAAAAAAAAAAAAAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK074354 unedited  
 GCGTTGCANATTTTGAATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGTTTG  
 GTCTTGCAGATGCTGCTGCAGAGCTGTTGCAGAATCCTCACAATTTCTTCTGATGAAC  
 GTTTTGGGGATGAAAAGTCCACTCTTGACAATGAGACAGCTGGGAGATGTCGCGTAAACA  
 GTACACCTCCTGCAGAAACCATGTTTACAGATCTGGACTCTTTTGTGGCCTTCCATCCAC  
 CCTTGCCCCCTCCACCACCTCCCTACCACCCCCAGCTACCCCAATCCATAACCAACTCA  
 AAGCAGGCTGGAAGCAAAGACCTCCCAGTCAGCACCCCTTACGTTTCAATTTCTTATCCCT  
 GTAATCATTTCGCTGTTCCACTCCAGAACAGCTCCTAAAGCTGGCCCTCCCCAGTCTACT  
 TGCCGAGTGTGAAAGCTGCACCGCTGATTGTACCAGCACTGCAGGACTGGGCAGACAGA  
 CGGTGGCTGCTGCTGCCGCCACCACCACCTCAACAGCAACAGCAGCAGCAGCAGCAT  
 CTGAGAAGCAAGTGCGAACACAACCTGTGCTGAATGATCTGATGCCAGACATCGCGGTGG  
 GTGTGTCCACACTGTCACTCAAGGACAGGAGGCTTCCAGAGCTTGTGTAGACACAGAAT  
 TAAGCCAGTCAGTTTCTGAAGCATGACCAGGGCTNCCCAGCATCTGTCGTGATTCCAC  
 AGAGACATACACACTTCTCGGAAAAACACACTAGTAGCAAAAAACAGACACCAGA  
 GTAAAATCCCAGGNAATATCCGGNATTTCTATGACTTCTCAAATGCTTGTGACAGCT  
 TCTACTTCTGCTTTCAGCAGACGCACCCCTTCTTTGCAAGGTGGATATTTTGGTCCC  
 GATCTGTTTCAGCCACATTAGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK074354 unedited  
 CGAAATACTATGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTGTA  
 TTTTTATAGAAATGGAGTTTCGCCATGTTGCCAGGCTGGTCTTGAACCTGAGCTTC  
 AGTGATCTGCCCGCTCGGCCTCCGAAGTGCCGATCACAGGTGTGAGTCACTGCGCCCG  
 GCTCCACTGCTTCTAATTCGAAGGATGCGATCTGTTAGAGCCTCATCTGGTGACTC  
 TAATCCTTATGACCAGAATGTGCAGGGATTCTGACTGCATCCACACTGTGAAATGTAAC  
 AGCTTTAGCCTGGGCACAGAAGGCTTTTCTTTCTGTTCTTTCTGAACCAGCAAACCT  
 TCAGGACCCTGACTGGACTCCCGCTGGAGGAATGAAGCCAGCTCCTAGGACTTATTA  
 AAAAAATGACATTAGATTTATGGAGGCTGAGCGGGAAGATCTCTGAACTAAAACAATTA  
 CTGAAAAGAGAGGAGCATTCTGATGTGCTGTTCTTTGGAATTTCTATAATAAAAAATA  
 ACACAGAACTATTTTCGTAAGAAAATACATCTTAGTGTGCAATCCAATGCACATGGATTGG  
 TAGATGAAAGGTAAAATGCAAAAAAGTATGAAAATACAGTCTTTAAATGTGGCAATAAA  
 GTTTAACATACTGATATAAAATCAATACAGAGAAAATAAATGTACAAGTGCAAAAAAATT  
 CCATCATTGTGAAAGAGAAATAAAAAAGTGCCAGCCTGCTGTTCTTAAAAATGCCTTCCGA  
 CATAATTGTTCAAAGACAAATTAGACAGATGCAACATTTAAAAAACAACAAACCTTT  
 CTAACATGCCATGTGCTAATAACACCTATATACCCAAAACACTAGAACAAAATCTGTGAAA  
 ACGAGTTATCAGCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK074354

**Insert Size:**

2500 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:** [AK074354.1](#)

**RefSeq Size:** 2213 bp

**RefSeq ORF:** 2213 bp

**Locus ID:** 55727

**Cytogenetics:** 14q32.12

**Gene Summary:** Acts as a mediator of epithelial dynamics and organ branching by promoting cleft progression. Induced following accumulation of fibronectin in forming clefts, leading to local expression of the cell-scattering SNAIL2 and suppression of E-cadherin levels, thereby altering cell morphology and reducing cell-cell adhesion. This stimulates cell separation at the base of forming clefts by local, dynamic intercellular gap formation and promotes cleft progression (By similarity).[UniProtKB/Swiss-Prot Function]