

## Product datasheet for **RC239550**

### **BTBD7 (NM\_001289133) Human Tagged ORF Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | BTBD7 (NM_001289133) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                     |
| Symbol:            | BTBD7                                       |
| Synonyms:          | FUP1  |
| Vector:            | pCMV6-Entry (PS100001)                      |
| E. coli Selection: | Kanamycin (25 ug/mL)                        |
| Cell Selection:    | Neomycin                                    |



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**ORF Nucleotide Sequence:**

>RC239550 representing NM\_001289133  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGGGGTGCTGGCGCCGGTGCAGCGCGGTGCTGGTGGCGGGCGCGCGGAGGCGACGGCAGCG  
 GTCCCAGCGGCAGCAGCAGCGCGGGAGGAGCCTCCGGGGCTGTGAGGATATCATTGCTGAGAGCATCTC  
 ATTAGATACCTTAATTGCCATCCTCAAGTGGAGTTCTCATCCATATGGCTCTAAATGGGTGCACCGACAA  
 GCTTTACATTTCTCTGTGAGGAATTTCCAGGTCATGACTTCGGATGTTTTTTATGAACTCAGCAAAG  
 ACCATCTGCTTACTGCTATCCAGTCTGACTACCTACAGGCAAGTGAACAAGATATCCTTAAATATCTGAT  
 TAAATGGGGAGAGCATCAGTTGATGAAAAGAATAGCAGATAGAGAGCCAAACTTACTGAGTGGCACTGCC  
 CATAGTGTGAACAAAAGAGGTGTAAAAGACGGGACCTGGACATGGAAGAGCTCAGAGAGATCCTTTCTT  
 CTCTCTTACCTTTGTGCGAATTGAACACATCTTACCTATAAACAGTGAAGTCTTAAGTGTGCAATGAA  
 AAGAGGCTTGATTAGTACTCCTCCATCAGATATGCTTCTACAACAGAAGTGGGAAGTCAAATGCCTGG  
 TTAGCGCAAAAAATGCTGGCATCTATGTTCTGCTCGACTCTTCTCTCCCTATGTGGAAGAAGCAAAGT  
 CAGTGCTAGATGAGATGATGGTGAACAACCGGATCTTGTGCGCTTGCAGTGGTGAAGATGTCCATGT  
 GCCAGACACGCTCTACATGGTCAATAATGCCGTGCCACAGTGTGTCACATGATCAGCCACCAGCAGATC  
 AGCAGCAACCAGTCAAGCCCTCCTTCAGTTGTAGCCAACGAAATTCAGTTCCCTCGTCTCCTCATTATGA  
 AAGACATGGTCAGACGACTGCAGAACTGCGGCACACGGAGCAGGTGCAGAGGGCCTATGCCCTGAACTG  
 CGGGGAAGGCGCCACTGTGAGTATGAAATTCAGATTCGAGTGCAGAGAGTTGGTCTTGAGATGCT  
 GCTGCAGAGCTGTTGAGAATCCTCACAAATCTTTCTGATGAACGTTTTGGGGATGAAAGTCCACTCT  
 TGACAATGAGACAGCCTGGGAGATGTCGGTAAACAGTACACCTCCTGCAGAAACCATGTTTACAGATCT  
 GGACTCTTTTGTGGCCTTCCATCCACCCTTGCCCTCCACCACCTCCCTACCACCCCCAGCTACCCCA  
 ATCCATAACCAACTCAAAGCAGGCTGGAAGCAAAGACCTCCCAGTCAGCACCCCTTACGTTCAATTTCTT  
 ATCCCTGTAATCATTGCTGTTCCACTCCAGAACAGCTCCTAAAGCTGGCCCTCCCCAGTCTACTTGCC  
 GAGTGTGAAAGCTGCACCGCCTGATTGTACCAGCACTGCAGGACTGGGCAGACAGACGGTGGCTGCTGCT  
 GCCGCCACCACCCTCAACAGCAACAGCAGCAGCAGCAGCAGCATCTGAGAAGCAAGTGCAGACACAAC  
 CTGTGCTGAATGATCTGATGCCAGACATCGCGGTGGGTGTGCCACTGTCCTCAAGGACAGGAGGCT  
 TCCAGAGCTTGCTGTAGACACAGAATTAAGCCAGTCAGTTTCTGAAGCAGGACCAGGCTCCCCAGCAT  
 CTGTCGTGATTTCCACAGAGACATACACACTTCTCGGAAAAACACACTAGAGCAAAAAACAGACA  
 CCAGAGAAAAATCCACAGGAATATCCGGATTTCTATGACTTCTCAAATGCTGCTTGACAGACCTTCTACTCC  
 TGCTCTCAGCAGACGCACCCCTTCCCTTTCGCAAGGTGGATATTTTGGTCCCGATCTGTACAGCCACAAT  
 AAGGCATACCAAGTGGCTTAAAGTCAGCTACCTACCTGGTCAGACGTCTCTAAAAAACAGGAAGAAG  
 CTAGGAGAGAATATCCACTTTCCCTGACGGGCATCTACACAGACAAAAGAAATGAGCCGATACACCTGGA  
 TGTCGTTGAGCAACCTCCCAGCGGTGAGACTTTCCTTTGGCAGCCCCAGAAAATGCTAGTACCGGTCCA  
 GCCCATGTCAGGGGACGAACTGCAGTAGAACTGACTTGGACTTTTGGGCTGACTCCTAACAGACCTTCA  
 TTTCTGCATGTAGCTCTGAAGCTCCCGAAGAGAGATCCGGTGAAGACTGGCAGACAGTGAAGTCCCTGG  
 CCATGGAGCTCAGAGAAATACAGATTTGAAAGGGAAGATTCAATAAGCAGAGGAAGGAGGTCACCAAGC  
 AAGCCGGACTTCTCTACAAAAAGTCTGCCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239550 representing NM\_001289133  
 Red=Cloning site Green=Tags(s)

MAGGAGAGADGGAGGGGGGGDGSPPSGSSSGRSLRGCEDIIAESISLDTLIAILKWSSHPYGSKWVHRQ  
 ALHFLCEEFSQVMTSDVFYELSKDHLLTAIQSDYLQASEQDILKYLKIGWEHQLMKRIADREPNLLSGTA  
 HSNKRGVKRRDLMEELREILSLLPFVRIEHILPINSEVLSAMKRGLISTPPSDMLPTTEGGKSNAW  
 LRQKNAGIYVRPRLFSPYVEEAKSVLDEMMEVQTDLVRLRMVRMSNVPDLYMVNNAVPQCCHMISHQOI  
 SSNQSSPPSVVANEIPVPRLLIMKDMVRRQLQELRHTEQVQRAYALNCGEGATVSYEIQIRVREFGLADA  
 AAELLQNPHKFFPDERFGDESPLLTMRQPGRCRVNSTPPAETMFDLDSFVAFHPPPLPPPPPYHPPATP  
 IHNQLKAGWKQRPPSQHPSRSFSYPCNHSLFHSRTAPKAGPPPVYLPVSKAAPDCTSTAGLGRQTVAAA  
 AATTTSTATAAAAAAASEKQVRTQPVNLMPDIAVGVSTLSLKDRRLPELAVDTELSQVSEAGPGPPQH  
 LSCIPQRHTHTSRKKHTLEQKTDRENQYPDFYDFSNACRPSTPALSRRTSPSQGGYFDPDLYSHN  
 KASPSGLKSAYLPGQTSPPKQEEARREYPLSPDGHLHRQKNEPIHLDVVEQPPQRSDFPLAAPENASTGP  
 AHVRGRTAVETDLTFGLTPNRPSLSACSSAPEERSGRRLADSESLGHGAQRNTDLEREDSISRGRSPS  
 KPDFLYKKSAL

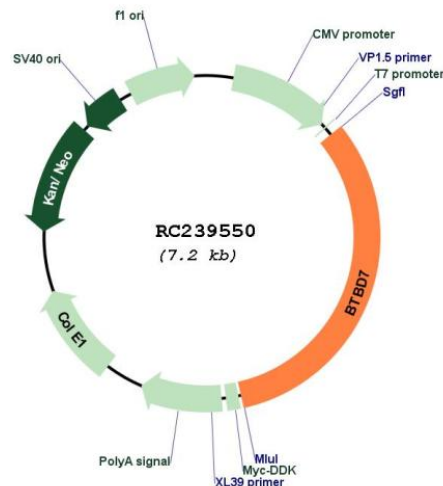
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfi-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001289133

**ORF Size:** 2343 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\\_001289133.2](#)

**RefSeq Size:** 7233 bp

**RefSeq ORF:** 2346 bp

**Locus ID:** 55727

**UniProt ID:** [Q9P203](#)

**Cytogenetics:** 14q32.12

**MW:** 86 kDa

**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]