OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC223677

Btbd7 (NM_172806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btbd7 (NM_172806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Btbd7
Synonyms:	5730507E09Rik; 8030448M07; E130118E17Rik; FUP1; mKIAA1525
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC223677 representing NM_172806
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTGCTAATGCATCTAACTATCCTCATTCATGTTCCCCAAGGGTAGGGGGAAATTCACAGGCCCAGC
AGACTTTCATAGGAACATCTTCCTATTCTCAACAAGGCTATGGTTGTGAGTCAAAGTTGTATAGCCTTGA
CCATGGCCATGAGAAACCACAAGACAAAAAAAAGAGAACCTCTGGCCTTGCCACTCTCAAAAAGAAGTTT
ATTAAACGCCGAAAATCTAATAGATCGGCTGATCACGCCAAGCAGATGCGAGAACTCCTCTCTGGGTGGG
ATGTTAGAGATGTCAATGCACTAGTGGAAGAATATGAGGGAACTTCAGCCTTGAAGGAGCTTTCTCTGCA
AGCCAGTTTGGCTAGGCCAGAAGCTCGGACCCTGCAGAAGGACATGGCCGACCTTTATGAGGATAAGTAC
TGTACTGACGTGGACTTAATATTTCAGGAAACTTGTTTTCCTGTTCACCGTGCCATTTTGGCAGCAAGGT
GTCCATTTTTTAAAACCCTGCTTTCTTCTTCACCTGAGTATGGGGCAGAGATAATAATGGACATCAGTAC
AGCTGGTATTGATATGCCCATGTTTTCCGCCTTGTTACACTACCTTTATACAGGAGAGTTTGGAATGGAG
GACTCAAGATTTCAGAATGTCGACATCCTTGTTCAGCTTAGTGAAGAATTTGGAACACCAAATCCCCTTG
ATGTAGATATGCGTGGACTCTTTGATTACATGTGTTATTATGATGTTGTCCTTAGTTTTTCTTCAGATTC
TGAACTAGTTGAAGCTTTTGGTGGAAATCAGAACTGTTTAGATGAAGAGCTCAAAGCCCACAAGGCTATT
ATTTCTGCACGGTCCCCGTTTTTCCGAAATTTATTACAAAGGAGAATACGGACTGGTGAAGAAATCACAG
ACCGAACTTTGAGAACTCCCACAAGAATTATATTAGATGAGTCCATTATACCAAAAAAATATGCAAAAGT
GATATTACACTGTATGTATACCGATGTGGTGGACCTCTCTGTTTTACACTGTAGCCCCTCTGTGGGGAGT
CTCAGTGAAGTTCAGGCTCTCGTCGCAGGGAAGCCAAACATGACCAGGGCAGAAGAAGCCATGGAACTTT
ACCACATAGCACTATTCTTGGAATTTAACATGCTTGCACAAGGCTGTGAGGACATCATTGCTGAGAGCAT
CTCATTAGACACCTTAATTGCCGTCCTCAAGTGGAGCTCGCATCCATACGGCTCTAAGTGGGTGCACCGA
CAAGCTGTGCATTTCCTGTGTGAGGAGCTATCCCAGGTCATGACTTCGGATGTTTTTTATGAACTGAGCA
AAGACCATCTGCTTACTGCTATCCAGTCTGACTACCTACAGGCAAGCGAACAAGATATCCTTAAATATCT
GATTAAATGGGGTGAGCATCAGTTGATGAAAAGAATAGCAGACAGAGAGCCAAACTTACTGAGTGGCACT
GCACATAGTGTGAACAAAAGAGGTGTGAAGAGAAGAGACCTGGACATAGAAGAACTTAGAGAGATCCTTT

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CTTCTCTCTTGCCTTTTGTGCGGATTGAACACATCCTACCTATAAACAGTGAGGTCTTAAGTGATGCAAT
GAAAAGAGGCTTGATCAGCACGCCGCCATCAGACATGCTTCCTACAGCAGAGGGCGGGAAATCAAACGCC
TGGCTGCGGCAGAAGAACGCTGGCATATATGTTCGTCCTCGGCTGTTTTCTCCCTATGTGGAGGAAGCAA
AGTCAGTGCTGGATGAGATGATGGTGGAACAGACAGACCTGGTGCGACTGCGAATGGTGCGCATGTCCAA
TGTCCCAGACACACTCTACATGGTCAGCAATGCCATGCCCCAGTGCTGCCACATGATCAGCCACCAGCAG
ATCAGCAGTAACCAGTCGAGCCCTCCATCAGTTGTAGCCAATGAGATCCCAGTTCCTCGTCTCCTCATTA
TGAAGGATATGGTGAGGCGCCTGCAGGAACTGCGGCACACAGAGCAGGTGCAGAGAGCCTATGCACTGAA
CTGTGGGGAAGGTGCCACCGTCAGCTATGAAATCCAGATCCGAGTGCTCAGAGAGTTTGGTCTTGCAGAC
GCCGCTGCAGAGCTCCTACAGAATCCTCACAAGTTCTTTCCTGATGAACGGTTTGGGGATGAAAGTCCGC
TCTTGACAATGAGGCAGCCTGGGAGATGTCGTGTCAACAGTACCCCTACTGCAGAAACCATGTTTACAGA
CCTGGACTCTTTTGTGGCCTTCCATCCACCTTTACCCCCTCCGCCCCCTCCGTACCACCCTCCAGCTACT
CCAATCCATAACCAGCTCAAGGCAGGCTGGAAGCAAAGGCCTCCCAGTCACCACCCTTCCCGTTCATTTT
CTTACCCCTGTAATCATTCACTGTTTCACTGCAGAACAGCTCCTAAACCTGGCCCTCCCCCAGTCTATTT
GCCAGGTGTTAAAGTAGCCCCTCCCGACTGCACCAACACCACAGGCCTGGGGAGACAGACGGTTGCTGCT
GCTGCTGCAGCTGCTGCCGCCTCAGCAGCAATAATACCTGAGAAGCAAGTGTGTCCACAGCCTGTGCTGA
ATGACCTGATGCCAGATATCGCCATGGGGGTGTCTACACTGTCACTCAAGGACAGGAGGCTCCCAGAGCT
CGCTGCAGACACAGAGTTATGCCAGACAGTTTCTGAAGCAGGAACGGGACCTCCCCAGCATCTGTCATGT
ATTCCACAGAGACACACAAACACATCTCGAAAAAAAACCCACACTAGAGCAGAAAGCAGACGGTAGAGAAA
ATCAGCAGGAATACCCAGATCTCTATGACTTCTCAAATGCTGCTTGCAGACCTTCCACTCCTGCTCCTGG
CAGACACTCCCCTTCCCCTGCTCATGGTAGATACTTTGGTCCAGACTTGTACAGCCACAATAAGGCATCA
CCAAATGGCTTAAAGTCAGTTTACCTACCTGGTCAGACCTCTCCTAAAAAGCAGGAAGACCCTAGGAGAG
AGTACCCACCGTCTCCTGACGGCCATCCGCACAGGCAGAAGAGGGAGCCGATACGTCTGGACGTGGTTGA
GCAGCCTCCCCAGAGGCCAGACTTTCCTTCCGCAGCCTCAGAAAATGCTAGTCATGGTCCAGCCCATGTC
AGGGCACGGACTGCAGTAGAAACTGACTTGACTTTTGGGCTGACATCTAACAGACCTCCTTCCCATTCTG
CGTGTAGCTCTGAAGTTCTCGAAGAGCGATCCAGTAGACGACTGACAGACAGCGAGCCCCTGGGCCATGG
AGCTCATCAAAGAAATGCAGATCTGGAAAGGGGTGATTCCATTAGCAGAGGACGGAGGTCGCCAAGCAAG
CCAGACTTCCTCTACAAAAAGTCTGCCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172806

Insert Size: 3393 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_172806.2, NP_766394.2
RefSeq Size:	4325 bp
RefSeq ORF:	3393 bp
Locus ID:	238386
UniProt ID:	Q8CFE5
Cytogenetics:	12 E
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. [UniProtKB/Swiss-Prot Function]