

Product datasheet for RC213778

BTBD7 (NM_001002860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTBD7 (NM_001002860) 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
ORF Nucleotide Sequence:	>RC213778 representing NM_001002860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTGCTAATGCATCTAATTATCCTCATTTCATGTTCCCGAGGGTAGGGGAAATTCACAGGCCAAC
AGACTTTTATAGGGACCTCATCCTATTCTCAGCAAGGCTATGGTTGCGAATCAAAGTTGTATAGCCTTGA
CCATGGCCATGAGAAACCACAAGACAAAAAAGAGAACCTCTGGTCTTGCCACCCTCAAAAAGAAGTTT
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ATGTTAGAGATGTCAATGCATTAGTGGAGGAATATGAGGGAACATCAGCATTAAAGGAGCTTTCTCTACA
AGCCAGTTTGGCTAGACCAGAAGCCCGGACATTGCAGAAAGATATGGCTGATCTTTATGAGTACAAGTAT
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GTCCATTTTTTAAACACTGCTTTCTCCTCACCAGAGTATGGGGCAGAGATAAATGGACATCAATAC
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GACTCAAGGTTTCAAAATGTCGATACCTTGTTCAGCTTAGTGAAGAATTTGGAACACCAAAATCCCTTG
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TGAAGTGTGAAAGCTTTTGGTGGAAATCAGAAGTGTAGATGAAGAGCTCAAAGCCCAAGGCTGTT
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GCCCATAGTGTGAACAAAAGAGGTGTA AAAAGACGGGACCTGGACATGGAAGAGCTCAGAGAGATCCTTT



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CTTCTCTTACCTTTTGTGCGAATTGAACACATCTTACCTATAAACAGTGAAGTCTTAAGTGATGCAAT
 GAAAAGAGGCTTGATTAGTACTCCTCCATCAGATATGCTTCTACAACAGAAGGTGGGAAGTCAAATGCC
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 AAGTAGGAGAGAATATCACTTCCCTGACGGGCATCTACACAGACAAAAGAATGAGCCGATACACCT
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 AGCAAGCCGACTTCTCTACAAAAAGTCTGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213778 representing NM_001002860
 Red=Cloning site Green=Tags(s)

MGANASNYPHSCSPRVGGNSQAQQTFIGTSSYSQQGYGCESKLYSLDHGHEKPQDKKRTSGLATLKKKF
 IKRRKSNRSADHAKQRELLSGWDVRDVALVEEYEGTSALKELSLQASLARPEARTLQKDMADLYEYKY
 CTDVDLIFQETCFPVHRAILAAARCPFFKTLSSSPEYGAEIIMDINTAGIDMPMF SALLHYLYTGEFGME
 DSRFQNVLDILVQLSEEFGTPNSLDVDMRGLFDYMCYYDVVLSFSSDSELVEAFGGNQCLDEELKAHKAV
 ISARSPFFRNLLQRRIRTGEEITDRTLRTPTRIILDESIIPKKYATVILHMYTDVVDLSVLHCSPSVGS
 LSEVQALVAGKPNMTRAEEMELYHIALFLEFNMLAQGCEDI IAESI SLDTLIAILKWSHPYGSKWVHR
 QALHFLCEEFSQVMTSDVFYELSKDHLITAIQSDYLQASEQDILKYL IKWGEHQLMKRIADREP NLLSGT
 AHSVNRKRGVRRDLMEELREILSSLLPFVRIEHLINSEVLS DAMKRGLISTPPSDMLPTTEGGKSNA
 WLRQKNAGIYVRPRLFSPYVEEAKSVLDEMMEVQTDLVRLRMVRMSNVPDTLYMVNNAVPCCHMISHQQ
 ISSNQSSPPSVVANEIPVPRLLIMKDMVRRQLRHEQVQRAYALNCGEGATVSYEIQIRVREFGLAD
 AAELLQNPHKFFPDERFGDESPLL TMRQPGRCRVNSTPPAETMFTDLSFVAFHPPLPPPPPYHPPAT
 PIHNQLKAGWKQRPPSQHPSRSFSYPCNHSLFHSRTAPKAGPPVYLPVSKAAPPDCTSTAGLGRQTVAA
 AAATTTSTATAAAAAAASEKQVRTQPVLNLDMPDIAVGVSTLSLKDRLPELAVDTEL SQSVSEAGPGPPQ
 HLCSCIPQRHTHTSRKKHLEQKTD TRENQYEPDFYDF SNAACRPSTPALSRRTSPSQQGYFGPDLYSH
 NKASPSGLKSAYLPQTSPPKQEEARREYPLSPDGHHRQKNEPIHLDVVEQPPQRSDFLAAPENASTG
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 SKPDFLYKKSAL

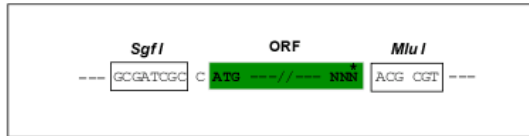
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

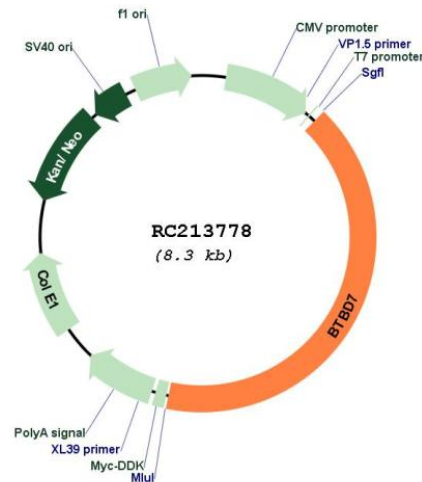
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001002860

ORF Size: 3396 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_001002860.4](#)

RefSeq Size: 8448 bp

RefSeq ORF: 3399 bp

Locus ID: 55727

UniProt ID: [Q9P203](#)

Cytogenetics: 14q32.12

MW: 126.2 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]