

Product datasheet for **RR201713**

Btd (NM_001012047) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btd (NM_001012047) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Btd
Synonyms:	MGC109548
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201713 representing NM_001012047
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGAGCCCGCACTGCGCATGCGCTCGTCTTCTCCTCGGCTGTTCTGCGCTTGGCTTGGCGGTCT
 GCTCAGCCTCCCTGGAGACGGCGAGGCTGAGTACTACGTGGCTGCCGTGTACGAACACCGATCGGTCTCT
 GAGCCAAACCCCTGGAGCTCAGCAGCCGCCAGCAGGCCCTGGAGCTCATGAAGCAGAACCTCGACGTC
 TATGAACAGCAAGTGATGGCTGCAGCCAGAAGGGTGCACATTATAGTGTCCAGAAGACGGTATCC
 ACGGATCAACTCACAAGAATCCATTTACCCATTCTTGGACTTGTGCCATCTCCAGGCTGGTCAG
 TTGGAACCCGTGCTGGAGCCCTTTCGCTTCAATGACACGGAGGCTCCAGCGCTGAGTTGCATGGCC
 ATCAAGGAAAGATGTTCTTGGTGGCAATCTTGGGACAAAACAGCCTTGCCTCGCAGCGACCCCTGGT
 GCCCGCAGGACGGGAGATACCAGTTAACACAAACGTGCGTTTCAAGTACACCGAACCCCTCGTCGGCCG
 CTACCGTAAGCACAACTGTACTTTGAGGAAGCCTTCGATAGCCCTGCTGACGTGGACCTACCACCTTT
 GATACGCCGTTCCGCGGGCAAGTTCGGTATGTTCACTTGCCTTGGATATCCTGTTCTTTGACCCCGCGTCC
 GGCTCCTCAGAGACTTTGAGTAAAGCACATTGCGTACCCTACGGCTGGATGAACCAGCTGCCGCTCTT
 GGCAGCCATTGAAATCCAGAAAGCATTGCCACCCTTCCGGCTCACCGTTCTGGCAGTAACATCCAC
 CACCCGACTCTGGGGATGACGGGAGTGGCATAACACCCTCTGAAGTCTTTTGGTACCATAACATGG
 ACGACCCGAAGGTCACCTTATAATTGCCCGGGTAGCCACAAACCCACAGGGCCTCGTTGGGACAGAGAA
 TACAACAGTAAATGGATCCGTCATAGGAAGTCTTAAAAGTCTTGTCTGGGGATCCGACTGTGAG
 AAGGATGCCAGGAAGTGCCTGCGCAGGCTGCCAAGTGAACCTGAACGCACCACCTACCTTCCACT
 CGGAGATGATGATGACAATTTACCCTGGTCCCGCTGCGGAAAGGAAGGCCACCTCCAGGTGCTC
 CAACAGTCTCTGTTGCCACTTACTTTTCGAGAGGCCCGCCCTGTCCAAAGAGCTATATGCCCTGGGTGTC
 TTTGACGACTCCACACAGTGCACGGTACTACTACGTTCAAGCCTGTGCCCTGGTCAAGTGCAGGGGCG
 CTGGCTTTGAAACCTGCGGGCAGGAGATCTCGGAGGCCGAGGGCTTGTGTTGACTTTCATCTGTGGGGAA
 CTTCAGCACCTTGTATGTCTTCCCTTATTTCTCACCTCGGGGATGACCTAGACACCCCTGACCAGCTC
 GGGTGGGAGAGCGACCACTATTTCTTGGAGAGAGGGGACTGTCTCCGGCTGGTACGGCAGCTCTCT
 ATGGGCGGTTGTATGAGAGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201713 representing NM_001012047
 Red=Cloning site Green=Tags(s)

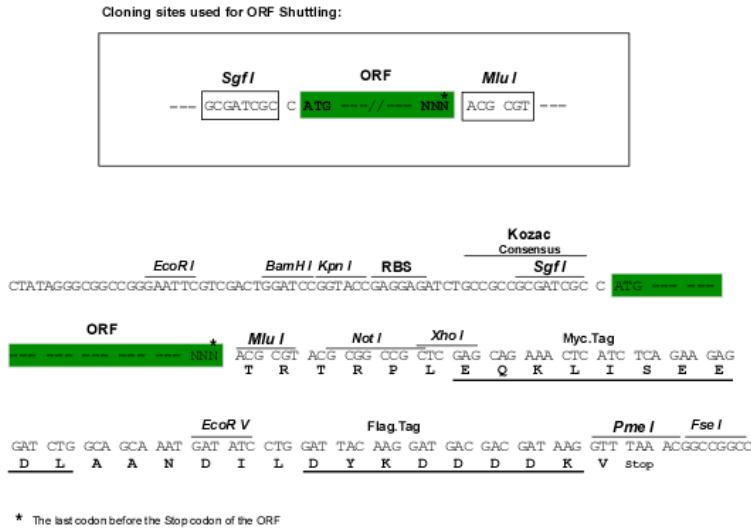
MSGARTAHALVFLLGCSALALGVCSASLEHGEAEYYVAAYVEHRSVLSPNPLELSSRQQAELMKQNLVDV
 YEQQVMAAAQKGAHIIVFPEDGIHGFNFRTSIYPFLDLMPSPRLVSWNPCLPFRFNDTEVLQRLSCMA
 IKGKMFLVANLGTKQPCLGSDPGCPQDGRYQFNTNVAFSDNGTLVGRYRKHNLVFEEAFDSPAADVLTTF
 DTPFAGKFGMFTCFDILFFDPAVRLLRDFEVKHIAYPTAWMNQLPLAAIEIQKAFATAFGVTVLAAIHI
 HPTLGMTGSGIHTPLKSFYHNMDPEGLIIARVATNPQGLVGTENTTSEMDPSHRKFLKVLSGDPYCE
 KDAQEVRCDAAKWNLNAPPTFHSEMMYDNFTLVPVWGKEGHLQVCSNSLCCHLLFERPALSKELYALGV
 FDGLHTVHGTYYYQACALVKCGGAGFETCGQEISEAEGLFDFHLWGNFSTLYVFPLFLTSGMTLDTDPQL
 GWESDHYFLRKRGLSSGLVTAALYGRLYERN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001012047

ORF Size: 1563 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_001012047.1](#), [NP_001012047.1](#)

RefSeq Size: 1999 bp

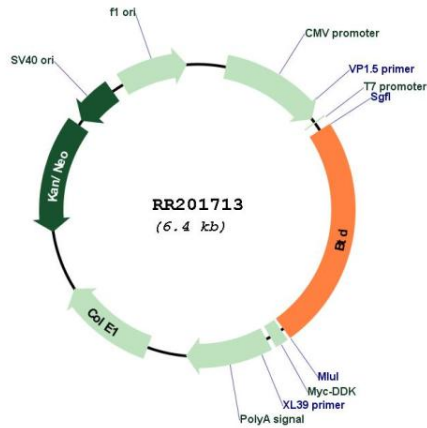
RefSeq ORF: 1566 bp

Locus ID: 306262

UniProt ID: [Q5FVF9](#)

Cytogenetics: 16p16
MW: 58 kDa
Gene Summary: Catalytic release of biotin from biocytin, the product of biotin-dependent carboxylases degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201713