

## Product datasheet for **RC238834**

### **BTD (NM\_001281724) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281724) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238834 representing NM\_001281724  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTAGGAAGGAAACACAGCTAATTATTAAGATGAATCATTTAGCAAGATTTGTGGTCTGCATTATGT  
 CTGGAGCCAGAAGTAAGCTTGTCTTTTCTCTCGCGCTGTACGTGGTTGCCCTGGGAGCCACACCGG  
 GGAGGAGAGCGTGGCTGACCATCACGAGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATCCATC  
 CTGAGTCTGAACCCTCTGGCTCTCATCAGCCGCCAAGAGGCCCTTGGAGCTCATGAACCAGAACCTTGACA  
 TCTATGAACAGCAAGTGATGACTGCAGCCAAAAGGATGTACAGATTATAGTGTTCCAGAAGATGGCAT  
 TCATGGATTCAACTTTACAAGAATCCATTTATCCATTTTGGACTTCATGCCGTCTCCCAGGTGGTC  
 AGGTGGAACCCATGCCTGGAGCCTCACCCTTCAATGACACAGAGGTGCTCCAGCGCCTGAGTTGTATGG  
 CCATCAGGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTTGTATAGCAGTGACCCAAG  
 GTCCCAAAAGATGGGAGATACCACTTCAACACAATGTCGTGTTGAGCAATAATGGAACCTTGTGAC  
 CGCTACCGTAAACACAACCTCTACTTTGAGGCAGCATTGATGTTCTCTTAAAGTGATCTCATCACT  
 TTGATACCCCTTTGCTGGCAGGTTTGGCATCTTCACATGCTTTGATATATTGTTCTTTGACCCTGCCAT  
 CAGAGTCTCAGAGACTACAAGGTGAAGCATGTTGTGACCCAACCTGCCTGGATGAACAGCTCCCCTC  
 TTGGCAGCAATTGAGATTCAGAAAGCTTTTGTGTTGCCCTTGGCATCAACGTTCTGGCAGCTAATGTCC  
 ACCACCCAGTTCTGGGGATGACAGGAAGTGGCATAACACCCCTCTGGAGTCTTTTGGTACCATGACAT  
 GGAAAAATCCAAAAGTCACTTATAATTGCCAGGTGGCCAAAATCCAGTGGGTCTCATTGGTGCAGAG  
 AATGCAACAGGTGAAACGGACCCATCCCATAGTAAGTTTTTAAAAATTTTGTGAGCGGATCCGACTGTG  
 AGAAGGATGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGGACGTGAATGCTCTCCCACTTCA  
 CTCTGAGATGATGATGACAATTTCAACCCTGGTCCCTGTCTGGGAAAGGAAGGCTATCTCCACGTCTGT  
 TCCAATGGCCTCTGCTGTTATTTACTTTACGAGAGGCCACCTTATCCAAGAGCTGTATGCCCTGGGGG  
 TCTTTGATGGGCTTACACAGTACATGGCACTTACTACATCCAAGTGTGTGCCCTGGTCAAGTGTGGGGG  
 TCTTGGCTTCGACACCTGTGGACAGGAAATCACAGAGGCCACGGGGATTTTGTGTTTCACTGTGGGGC  
 AACTTCAGTACTTCTATATCTTTCCTTTGTTTCTGACCTCAGGGATGACCCTAGAAGTCCCTGACCAGC  
 TTGGCTGGGAGAATGACCACTATTTCTGAGGAAAAGTAGGCTGTCTCTGGGCTGGTACGGCGGCTCT  
 CTATGGGCGCTTGTATGAGAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238834 representing NM\_001281724  
 Red=Cloning site Green=Tags(s)

MARKETQLIIMNHLARFVVCIMSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYYVAAYVEHPSI  
 LSLNPLALISRQEALLMNQNLDIYEQQVMTAAQKDVQIIVFPEDGIHGFFNFRTRSIYPFLDFMPSQVV  
 RWNPCLEPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGTLVD  
 RYRKHNLYFEAAFVPLKVDLITFDTPFAGRFGIFTCFDILFFDPAIRVLRDYKVKHVYPTAWMNQLPL  
 LAAIEIQKAFVAFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPKSHLIIAQVAKNPVGLIGAE  
 NATGETDPSHSKFLKILSGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVC  
 SNGLCYLLYERPTLSKELYALGVFDGLHTVHGTYIYQVICALVRCGGLGFDTCCGQEITEATGIFEFHLWG  
 NFSTSYIFPLFLTSGMTLEVDPQLGWENDHYFLRKSRLSSGLVTAALYGRLYERD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001281724

**ORF Size:** 1635 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\\_001281724.2](#), [NP\\_001268653.1](#)

**RefSeq Size:** 2272 bp

**RefSeq ORF:** 1572 bp

**Locus ID:** 686

**UniProt ID:** [P43251](#)

**Cytogenetics:** 3p25.1

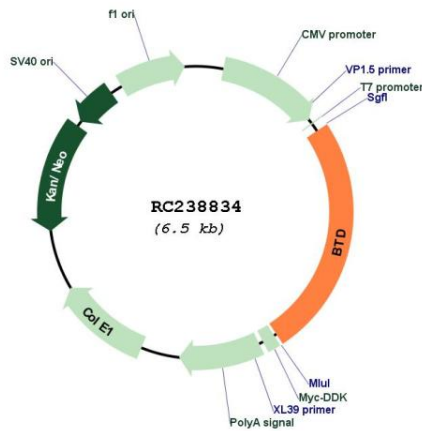
**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Biotin metabolism, Metabolic pathways

**MW:** 62 kDa

**Gene Summary:** The protein encoded by this gene functions to recycle protein-bound biotin by cleaving biocytin (biotin-epsilon-lysine), a normal product of carboxylase degradation, resulting in regeneration of free biotin. The encoded protein has also been shown to have biotinyl transferase activity. Mutations in this gene are associated with biotinidase deficiency. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Aug 2013]

**Product images:**



Circular map for RC238834