

Product datasheet for **SC310282**

BTD (NM_000060) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_000060) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTD
Synonyms:	biotinidase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000060 edited
 ATGGCGCATGCGCATATTAGGGCGGAAGGCGCGCTAAGAGCAGATTTGTGGTCTGCATT
 ATGTCTGGAGCCAGAAGTAAGCTTGCTCTTTCTCTGCGGCTGTACGTGGTTGCCCTG
 GGAGCCACACCCGGGAGGAGAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCT
 GCCGTGTATGAGCATCCATCCATCCTGAGTCTGAACCCCTGCTCATCAGCCGCCAA
 GAGGCTTGGAGCTCATGAACAGAACCTTGACATCTATGAACAGCAAGTGATGACTGCA
 GCCCAAAGGATGTACAGATTATAGTGTTCAGAAAGATGGCATTTCATGGATTCAACTTT
 ACAAGAACATCCATTTATCCATTTTGGACTTCATGCCGTCTCCCAGGTGGTCAGGTGG
 AACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGCTCCAGCGCTGAGTTGT
 ATGGCCATCAGGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTTGCAT
 AGCAGTGACCCAAGGTGCCAAAAGATGGGAGATACCAGTTCAACACAAATGTCGTGTTT
 AGCAATAATGGAACCCCTGTTGACCGCTACCGTAAACACAACCTCTACTTTGAGGCAGCA
 TTCGATGTTCTTAAAGTGGATCTCATCACCTTTGATACCCCTTTGCTGGCAGGTTT
 GGCATCTTACATGCTTTGATATATTGTTCTTTGACCCTGCCATCAGAGTCTCAGAGAC
 TACAAGGTGAAGCATGTTGTGTACCAACTGCCTGGATGAACCAGCTCCCCTCTTGGCA
 GCAATTGAGATTCAGAAAGCTTTTGTGCTTGCCTTTGGCATCAACGTTCTGGCAGCTAAT
 GTCCACCACCCAGTTCTGGGGATGACAGGAAGTGGCATACACACCCCTCTGGAGTCTTTT
 TGGTACCATGACATGGAAAATCCAAAAGTCACCTTATAATTGCCAGGTGGCAAAAAT
 CCAGTGGGTCTCATTGGTGCAGAGAAATGCAACAGGTGAAACGGACCCATCCCATAGTAAG
 TTTTAAAAATTTTGTGAGGTGATCCGTAAGTGTGAGAAGGATGCTCAGGAAGTCCACTGT
 GATGAGGCCACCAAGTGGAACTGTAATGCTCTCCACATTTCACTCTGAGATGATGAT
 GACAATTTACCCCTGGTCCCTGTCTGGGAAAGGAAGGCTATCTCCACGTCTGTTCCAAT
 GGCTCTGCTGTTATTTACTTTACGAGAGGCCACCTTATCCAAGAGCTGTATGCCCTG
 GGGTCTTTGATGGGCTTACACAGTACATGGCACTTACTACATCCAAGTGTGTGCCCTG
 GTCAGGTGTGGGGTCTTGGCTTGCACCTGCGGACAGGAAATCACAGAGGCCACGGGG
 ATATTTGAGTTTACCTGTGGGCAACTTCAGTACTTCTATATCTTTCTTTGTTTCTG
 ACCTCAGGGATGACCCTAGAAGTCCCTGACCAGCTTGGCTGGGAGAATGACCACTATTTT
 CTGAGGAAAAGTAGGCTGTCTCTGGCTGGTACGGCGGCTCTCTATGGGCGCTGTAT
 GAGAGGGACTAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000060 unedited
 CCCACAGGGACACAACATACAGGGCGCCGCGACCCGCACGACAAACAGGTAGAGCCGA
 CCCCAGCCTCCGCCCGCCCCGAGACGGCCAGCCGAGCGAATTCGGGGCTGTAAAGG
 GAGAATGGCGCATGCGCAAATTCAGGGCGGAAGGCGCGCTAAGAGCAGACCCGTGGCCCG
 CAACATGCCTGGAGCCAGAAGCAAGCCCGCTCCCCTCCTCCGCGGCTGTACGCGGTGCG
 CCTGGGAGCCACACCCGGGAGGAGAGCGTGGCTGACCATCACGAGGCTGAATATTATGT
 GGCTGCCGTGTATGAGCATCCATCCATCCTGAGTCTGAACCCCTGGCTCTCATCAGCCG
 CCAAGAGCCTTGGAGCTCATGAACAGAACCTTGACATCTATGAACAGCAAGCGATGAC
 TGCAGCCCAAAGGATGTACAGATTATAGTGTTCAGAAAGATGGCATTTCATGGATTCAA
 CCTTACAAGAACATCCATCTTATCCATTTTGGACTTCATGCCGTCTCCCAGGTGGTCA
 GGTGGAACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGCTCCAGCGCTGA
 GTTGTATGGCCATCAGGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTT
 GTCATAGCAGTGACCCAAGGTGCCAAAAGATGGGAGATACCAGTTCAACACAAATGTCG
 TGTTTCAGCAATAATGGAACCCCTGTTGACCGCTACCGTAAACACAACCTCTACTTTGAGCA
 GCATTCGATGTTCTTAAAGTGGATCTCATCACCTTTGATACCCCTTTGCTGGCAGT
 TTGGCATCTTACATGCTTTGATAATATTGTTCT

3' Read Nucleotide Sequence:	>Forward primer walk for NM_000060 unedited CATCATACGTTCTGCGCTATGTCCCCACCCAGTTCTGGGGATGACAGGAAGTGGCATACA CACCCCTCTGGAGTCCTTTTGGTACCATGACATGGAAAATCCCAAAGTCACCTTATAAT TGCCCAAGTGGCCAAAAATCCAGTGGGTCTCATTGGTGCAGAGAATGCAACAGGTGAAAC GGACCCATCCCATAGTAAGTTTTTAAAAATTTTGTGAGGTGATCCGTAAGTGTGAGAAGGA TGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGAACGTGAATGCTCCTCCACATT TCACTCTGAGATGATGTATGACAATTTACCCCTGGTCCCTGTCTGGGAAAGGAAGGCTA TCTCCACGCTGTTCCAATGGCCTCTGCTGTTATTTACTTTACGAGAGGCCACCTTATC CAAAGAGCTGTATGCCCTGGGGTCTTTGATGGCTTCACACAGTACATGGCACTTACTA CATCCAAGTGTGTGCCCTGGTCCAGTGTGGGGTCTTGGCTTCGACACCTGCGGACAGGA AATCACAGAGGCCACGGGGATATTTGAGTTTCACCTGTGGGGCAACTTCAGTACTTCTTA TATCTTTCTTTTCTGACCTCAGGGATGACCTAGAAGTCCCTGACCAGCTTGGCTG GGAGAATGACCACTATTTTCTGAGGAAAAGTAGGCTGCTCTGGGCTGGTACGGCGG CTCTCTATGGGCGCTTGTATGAGAGGGACTAGGAAAAGTGTGGTCTGTGGGCGGACT CTGGCCATCATGTTGACAGCCTTGCACCTCCACAGGCTACAAGCCCTGGGACCATCTTTC TGCCCTAAGGCAGGAGCCCCAC
Restriction Sites:	NotI-NotI
ACCN:	NM_000060
Insert Size:	4000 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_000060.2</u> , <u>NP_000051.1</u>
RefSeq Size:	2082 bp
RefSeq ORF:	1632 bp
Locus ID:	686
UniProt ID:	<u>P43251</u>
Cytogenetics:	3p25.1
Domains:	CN_hydrolase

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Biotin metabolism, Metabolic pathways

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]
Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region and uses a downstream start codon compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct N-terminus compared to isoform 1.