

## Product datasheet for **SC334208**

### **BTD (NM\_001281726) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281726) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001281726, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGCATGCGCATATTCAGGGCGGAAGGCGCGCTAAGAGCAGATTTGGTCTGCATTATGTCTGGAG
CCAGAAGTAAGCTTGCTCTTTCTCTGCGGCTGTACGTGGTTGCCCTGGGAGCCACACCGGGGAGGA
GAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATCCATCCTGAGT
CTGAACCCTCTGGCTCTCATCAGCCGCCAAGAGGCCTTGGAGCTCATGAACCAGAACCTTGACATCTATG
AACAGCAAGTGATGACTGCAGCCCAAAGGATGTACAGATTATAGTGTTCAGAAAGATGGCATTTCATGG
ATTCAACTTTACAAGAACATCCATTTATCCATTTTGGACTTCATGCCGTCTCCCAGGTGGTCAGGTGG
AACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGATTCCTGCCTTTTCTCAGTAGGCTGA
GGGTACACAGAGGTGATCTAAGTCAGGGACCAGAAGCTGTGACATGTTAA
```

Restriction Sites:	SgfI-MluI
ACCN:	NM_001281726
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).



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**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\\_001281726.1](#), [NP\\_001268655.1](#)

**RefSeq Size:** 769 bp

**RefSeq ORF:** 540 bp

**Locus ID:** 686

**Cytogenetics:** 3p25.1

**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 (5) has multiple differences compared to variant 1, one of which results in a translational frameshift. The resulting protein (isoform 5) is shorter and has distinct N- and C-termini compared to isoform 1.