

Product datasheet for **RG238834**

BTD (NM_001281724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281724) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238834 representing NM_001281724.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGTAGGAAGGAAACACAGCTAATTATTAAGATGAATCATTTAGCAAGATTTGTGGTCTGCATTATG
TCTGGAGCCAGAAGTAAGCTTGCTCTTTTCTCTGCGGCTGTTACGTGGTTGCCCTGGGAGCCACACC
GGGGAGGAGAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATCC
ATCCTGAGTCTGAACCTCTGGCTCTCATCAGCCGCCAAGAGGCCTTGGAGCTCATGAACCAGAACCTT
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GTGGTCAGGTGGAACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGCTCCAGCGCTGAGT
TGTATGGCCATCAGGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTTGTCATAGCAGT
GACCCAAGGTGCCAAAAGATGGGAGATACCAGTTC AACACAAAATGTCGTGTT CAGCAATAATGGAACC
CTTGTTGACCGCTACCGTAAACACAACCTCTACTTTGAGGCAGCATTGATGTTCTCTTAAAGTGGAT
CTCATCACCTTTGATACCCCTTTGCTGGCAGGTTTGGCATCTTACATGCTTTGATATATTGTTCTTT
GACCCTGCCATCAGAGTCTCAGAGACTACAAGGTGAAGCATGTTGTGTACCCAACCTGCCTGGATGAAC
CAGCTCCCCTCTTGGCAGCAATTGAGATT CAGAAAGCTTTTGCTGTTGCCTTTGGCATCAACGTTCTG
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CTCATTGGTGCAGAGAATGCAACAGGTGAAACGGACCCATCCCATAGTAAGTTTTAAAAATTTGTCA
GGCGATCCGTA CTGTGAGAAGGATGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGGAAACGTGAAT
GCTCCTCCCACATTTCACTCTGAGATGATGATGACAATTTACCCTGGTCCCTGTCTGGGAAAGGAA
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GAGCTGTATGCCCTGGGGTCTTTGATGGGCTTACACAGTACATGGCACTTACTACATCCAAGTGTGT
GCCCTGTCAGGTGTGGGGTCTTGGCTTGCACACCTGTGGACAGGAAATCACAGAGGCCACGGGGATA
TTTGAGTTTACCTGTGGGGCACTTCACTACTTCTATATCTTTCTTTGTTTCTGACCTCAGGGATG
ACCCTAGAAGTCCCTGACCAGCTTGGCTGGGAGAAATGACCACTATTTCTGAGGAAAAGTAGGCTGTCC
TCTGGGCTGGTGACGGCGCTCTCTATGGGCGCTTGTATGAGAGGGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

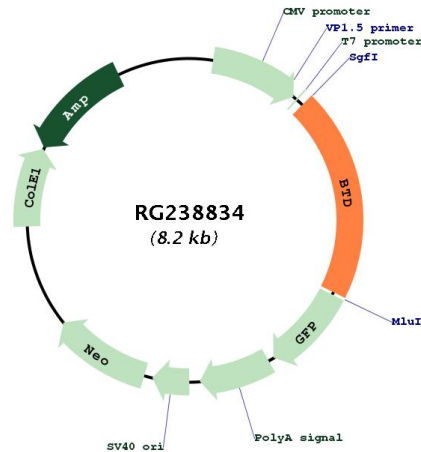
Protein Sequence:

>Peptide sequence encoded by RG238834
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MARKETQLIIKMNHLARFVVCIMSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYYVAAYVEHPS
ILSLNPLALISRQEALELMNQNLDIYEQQVMTAAQKDVQIIVFPEDGIHGFNFRTRTSIYPFLDFMPSPQ
VVRWNPCLPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGT
LVDRYRKHNLVFEAFDVPVKVDLITFDTPFAGRFGIFTCFDILFFDPAIRVLRDYKVKHVVYPTAWMN
QLPLLAIEIQKAFVAVFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPKSHLIIAQVAKNPVG
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FEFHLWGNFSTSYIFPLFLTSGMTLEVDPQLGWENDHYFLRKSRLSSGLVTAALYGRLYERD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEP
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Plasmid Map:


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).

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:	<p>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]</p>