

Product datasheet for **RG236314**

BTD (NM_001281726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281726) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236314 representing NM_001281726. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCATGCGCATATTCAGGGCGGAAGGCGCGCTAAGAGCAGATTTGGTCTGCATTATGTCTGGA
GCCAGAAGTAAGCTTGCTCTTTCTCTGCGGCTGTTACGTGGTTGCCCTGGGAGCCCACACCGGGGAG
GAGAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATCCATCTG
AGTCTGAACCTCTGGCTCTCATCAGCCGCAAGAGGCCCTGGAGCTCATGAACCAGAACCTTGACATC
TATGAACAGCAAGTGATGACTGCAGCCAAAAGGATGTACAGATTATAGTGTTCAGAAGATGGCATT
CATGGATTCAACTTTACAAGAACATCCATTTATCCATTTTGGACTTCATGCCGTCTCCCAGTGGTC
AGGTGGAACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGATTCTGCCTTTTCTCAGT
AGGCTGAGGGTACACAGAGGTGATCTAAGTCAGGACCAGAAGCTGTGACATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:	>Peptide sequence encoded by RG236314 Blue=ORF Red=Cloning site Green=Tag(s)
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MAHAHIQGGRRAKSRFVVCIMSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYVVAAYVEHPSIL
SLNPLALISRQEALLMNQNLDIYEQQVMTAAQKDVQIIVFPEDGIHGFNFRTRTSIYPFLDFMPSQVQV
RWNPCLPHRFNDTEVIPAFFLSRLRVHRGDL SQGPEAVTC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:	Sgfl-MluI
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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_001281726.1 , NP_001268655.1
RefSeq Size:	769 bp
RefSeq ORF:	480 bp
Locus ID:	686
Cytogenetics:	3p25.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Biotin metabolism, Metabolic pathways
MW:	20.6 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]