

Product datasheet for **RG204153**

BTD (NM_000060) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_000060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTD
Synonyms:	biotinidase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG204153 representing NM_000060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCATGCGCATATTCAGGGCGGAAGGCGCGCTAAGAGCAGATTTGTGGTCTGCATTATGTCTGGAG
 CCAGAAGTAAGCTTGCTCTTTCTCTGCGGCTGTACGTGGTTGCCCTGGGAGCCACACCGGGGAGGA
 GAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATCCATCCTGAGT
 CTGAACCTCTGGCTCTCATCAGCCGCCAAGAGGCCTTGAGCTCATGAACCAGAACCTTGACATCTATG
 AACAGCAAGTGTGACTGCAGCCAAAAGGATGTACAGATTATAGTGTTCAGAAAGATGGCATTTCATGG
 ATTCAACTTTACAAGAACATCCATTTATCCATTTTGGACTTCATGCCGTCTCCCAGGTGGTCAGGTGG
 AACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGCTCCAGCGCCTGAGTTGTATGGCCATCA
 GGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTTGTATAGCAGTGACCAAGGTGCC
 AAAAGATGGGAGATACAGTTCAACACAATGTCTGTTCAGCAATAATGGAACCTTGTGACCCTAC
 CGTAAACACAACCTCTACTTTGAGGCAGCATTGATGTTCTCTTAAAGTGGATCTCATCACCTTTGATA
 CCCCTTTGCTGGCAGGTTTGGCATCTTCACATGCTTTGATATATTGTTCTTTGACCCTGCCATCAGAGT
 CCTCAGAGACTACAAGGTGAAGCATGTTGTGTACCCAACCTGCCTGGATGAACCAGCTCCCACTCTTGGA
 GCAATTGAGATTCAGAAAGCTTTTGTGTTGCCTTTGGCATCAACGTTCTGGCAGCTAATGTCCACCACC
 CAGTTCTGGGGATGACAGGAAGTGGCATAACACCCCTCTGGAGTCCTTTTGGTACCATGACATGGAAAA
 TCCCAAAGTACCTTATAATTGCCAGGTGGCCAAAAATCCAGTGGGTCTCATTGGTGCAGAGAATGCA
 ACAGGTGAAACGGACCCATCCCATAGTAAGTTTTTAAAAATTTTGTGAGGCGATCCGACTGTGAGAAGG
 ATGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGAACGTGAATGCTCTCCACATTTCACTGTA
 GATGATGTATGACAATTTACCCTGGTCCCTGTCTGGGAAAGGAAGGCTATCTCCACGCTGTTCCAAT
 GGCTCTGCTGTTATTTACTTTACGAGAGGCCACCTTATCCAAAGAGCTGTATGCCCTGGGGTCTTTG
 ATGGGCTTACACAGTACATGGCACTTACTACATCCAAGTGTGTGCCCTGGTCCAGGTGTGGGGTCTTGG
 CTTGACACCTGTGGACAGGAAATCACAGAGGCCACGGGGATATTTGAGTTTACCTGTGGGGCACTTC
 AGTACTTCTATATCTTTCTTTGTTTCTGACCTCAGGGATGACCCTAGAAGTCCCTGACCAGCTTGGCT
 GGGAGAATGACCACTATTTCTGAGGAAAAGTAGGCTGCTCTGGGCTGGTACGGCGGCTCTCTATGG
 GCGCTTGTATGAGAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204153 representing NM_000060
 Red=Cloning site Green=Tags(s)

MAHAHIQGGRRAKSRFVVCIMSGARSKLALFLCGCYVVALGAHTGEEVADHHEAEYVVAAYVEHPSILS
 LNPLALISRQEALLMNQNLDIYEQQVMTAAQKDVQIIIVFPEDGIHGFNFTRTSIYPFLDFMPSPQVVRW
 NPCLEPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGTLVDYR
 RKHNLIFYEAAFDVPLKVDLITFDTPFAGRFGIFTDFDILFFDPAIRVLRDYKVKHVYPTAWMNQLPLLA
 AIEIQKAFAVAFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPKSHLIIAQVAKNPVGLIGAENA
 TGETDPSHSHKFLKILSGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSN
 GLCCYLLYERPTLSKELYALGVFDGLHTVHGTYIQCVCALVRCGGLGFDTCGQEITEATGIFEFHLWGNF
 STSYIFPLFLTSGMTLEVPDQLGWENDHYFLRKSRLSSGLVTAALYGRLYERD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000060

ORF Size: 1629 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_000060.4](#)

RefSeq Size: 2082 bp

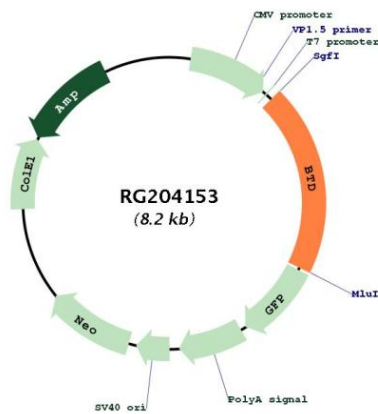
RefSeq ORF: 1632 bp

Locus ID: 686

UniProt ID: [P43251](#)

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]

Product images:



Circular map for RG204153