

Product datasheet for **RG238711**

BTD (NM_001281725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281725) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG238711 representing NM_001281725.
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTCTGGAGCCAGAAGTAAGCTTGCTCTTTTCTCGCGGTGTTACGTGGTTGCCTGGGAGCCAC
ACCGGGGAGGAGAGCGTGGCTGACCATCAGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCA
TCCATCCTGAGTCTGAACCCCTGGCTCTCATCAGCCCAAGAGGCCTTGGAGCTCATGAACCAGAAC
CTTGACATCTATGAACAGCAAGTGACTGCAGCCAAAAGGATGTACAGATTATAGTGTTCAGAA
GATGGCATTATGGATTCAACTTTACAAGAATCCATTATCCATTTTGGACTTCATGCCGTCTCCC
CAGGTGGTCAAGTGAACCCATGCCTGGAGCCTACCGCTTCAATGACACAGAGGTGCTCCAGCGCTG
AGTTGTATGGCCATCAGGGGAGATATGTTCTTGGTGGCCAATCTGGGACAAAGGAGCCTTGTATAGC
AGTGACCAAGGTGCCAAAAGATGGGAGATACCAGTTCAACACAATGTCGTGTTACAGCAATAATGGA
ACCCTTGTGACCGCTACCGTAAACACAACCTCTACTTTGAGGCAGCATTGATGTTCTCTTAAAGTG
GATCTCATCACCTTTGATACCCCTTTGCTGGCAGGTTTGGCATCTTACATGCTTTGATATATTGTTT
TTTGACCTGCCATCAGAGTCTCAGAGACTACAAGGTGAAGCATGTTGTGTACCAACTGCCTGGATG
AACCAGTCCCCTCTTGGCAGCAATTGAGATTAGAAAGCTTTTGTGTTGCCTTTGGCATCAACGTT
CTGGCAGCTAATGTCCACCACCCAGTCTGGGGATGACAGGAAGTGGCATAACACCCCTCTGGAGTCC
TTTTGGTACCATGACATGGAAAAATCCAAAAGTCACTTATAATTGCCAGGTGGCCAAAATCCAGTG
GGTCTCATTGGTGAGAGAAATGCAACAGGTGAAACGGACCCATCCCATAGTAAGTTTTTAAAAATTTG
TCAGGCGATCCGACTGTGAGAAGGATGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGAACGTTG
AATGCTCTCCACATTTCACTCTGAGATGATGTATGACAATTTACCCTGGTCCCTGTCTGGGAAAG
GAAGGCTATCTCCACGTCTGTTCCAATGGCTCTGCTGTTATTTACTTTACGAGAGGCCACCTTATCC
AAAGAGCTGTATGCCCTGGGGTCTTTGATGGGCTTACACAGTACATGGCACTTACTACATCCAAGTG
TGTGCCCTGGTCAAGTGTGGGGTCTTGGCTTCGACACCTGTGGACAGGAAATCACAGAGGCCACGGGG
ATATTTGAGTTTACCTGTGGGGCAACTTCAGTACTTCTATATCTTTCTTTGTTTCTGACCTCAGGG
ATGACCTAGAAAGTCCCTGACCAGCTTGGCTGGGAGAATGACCACTATTTCTGAGGAAAAGTAGGCTG
TCCTCTGGGCTGGTGACGGCGCTCTATGGGCGCTTGTATGAGAGGGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

Protein Sequence:

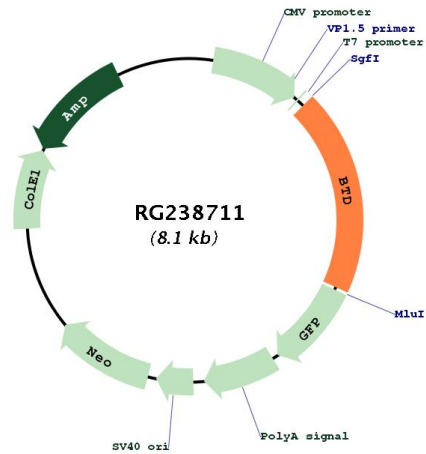
>Peptide sequence encoded by RG238711
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYVVAAYVEHPSILSLNPLALISRQEALLMNQ
LDIYEQQVMTAAQKDVQIIVFPEDGIHGFNFRTRSIYPFLDFMPSQVVRWNPCLPHRFNDTEVLQRL
SCMAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGTLVDRYRKHNLIFEAAFVPLKV
DLITFDTPFAGRFGIFTDFDILFFDPAIRVLRDYKVKHVYPTAWMNQLPLLAIEIQKAFVAVFGINV
LAANVHHPVLMGTGSGIHTPLESFYHDMENPKSHLIIAQVAKNPVGLIGAENATGETDPSHFKFLKIL
SGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSNGLCCYLLYERPTLS
KELYALGVFDGLHTVHGTYIYQVCAVRCGGLGFDTCGQEITEATGIFEFHLWGNFSTSYIFPLFLTSG
MTLEVPDQLGWENDHYFLRKSRLSSGLVTAALYGRLYERD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001281725

ORF Size: 1569 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_001281725.2](#), [NP_001268654.1](#)

RefSeq Size: 2276 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: 59.4 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]