

Product datasheet for **MG208483**

Btd (NM_025295) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btd (NM_025295) Mouse 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:

>MG208483 representing NM_025295
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGAAGCAGATTTATGGTCTGCATTATGTCTGGAGCCCGCACTGCGCCTGCTCTTCTTCTCGGCT
 GTTCTGCGCTTGGTTGGGCGTCAGCTCGGCCTCCAGGAGCACCGCAGGCTGAGTACTACGTGGCTGC
 TGTGTACGAGCATCCATCGGTCTGAGCCAAACCCCTGGAGCTCGTTAGCCGCCAGGAGGCCCTGGAG
 CTCATGAAGCAGAACCTCGACGTCTATGAACAGCAAGTATGGCTGCAGCCAGAAAGGTGTGCAGATTA
 TAGTGTCCAGAAAGATGGTATCCACGGATTCAACTTTACAAGAACATCCATTTACCCGTTCTTGGATTT
 TATGCCGTCTCCCAAGCTGGTCAAGTGGAAACCCGTGTCTGGAGCCCTTTCGGTTCAATGACACGGAGGTC
 CTCCAGCGCTGAGTTGTATGGCCATCAAGGGAGGGATGTTCTTGGTGGCCAATCTTGAACGAAACAGC
 CTTGCCTCAGCAGCGACCCTGGTTGCCACAGGACGGGAGATACCAGTTTAAACAAAATGTGGTGTTCAG
 CGACAATGGAACCTTGTGACCGCTACCGTAAGCACAACCTGTACTTTGAGGCGGCCTTTGATACCCCT
 GCTAACGTGGACCTCATACCTTTGATACGCCCTTTGCTGGCAAGTTGGCGTGTCACTTGCTTTGACA
 TCCTATTTCTTGACCCTGCCGTCCGACTCCTCAGAGACTTTGAGGTGAAACACATTGTGTACCCACAGC
 CTGGATGAACCAGCTACCGCTCTTGGCAGCATTGAAATTGAGAAAGCATTGCGCCACCGCCTTCGGTGT
 AACGTTTTGGCAGCTAACATCCACCACCCGACTCTGGGATGACCGGCAGTGGCATAACACCCCTCTCA
 AGTCTTTTGGTACCATGACATGGACGACCCCAAGGTACCTTATAATTGCCAGGTAGCCACAAACCC
 ACAGGGCCTCACTGGGACAGGGAATAACAAGTGTGAGATGGACCCGTCCCATAGGAAGTTCTTAAAAATC
 CTGTCCGGAGATCCGACTGTGAGAAGGATGCCAGGAAGTGCAGTGTGATGAGGCGCCAAAGTGGAAAC
 TGAATGTCCCGCCACCTTCCACTCGGAAATGATGACAATTTACCCTGGTCCCTGTCTGGGGAAC
 GGAAGGCCACCTGCAGGTGTGCTCCAACAGCCTCTGTTGCCACTTACTGTATGAGAGGCCACCCGTCTC
 AAAGAGCTATATGCCCTGGGAGTCTTTGACGGACTCCACACCGTGCACGGCACCTACTACATTCAAACCT
 GTGCCCTGGTTAAGTGGGGGGCCTTGGCTTCGACACCTGCGGGCAGGAGATCACGGAGGCCGAGGGCTT
 GTTTGACTTTTCTGTGGGGAACTTCAGCACTTTGTATATCTTTCTTTATTTCTCACCTCGGGGATG
 ACTCTGGACACCCTGACCAGCTGGCTGGGAGAATGACCACTATTTCTTGGGAAGAGGGGACTGTCTC
 CCGCCTGGTGACAGCAGCTCTATGGACGGTTGTATGAGAGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208483 representing NM_025295
 Red=Cloning site Green=Tags(s)

MRSRFMVCIMSGARTAPALFFLGCSALALGVSSASQEHREAEYVAAVVEHPSVLSNPLELVSRQEALE
 LMKQNLVYEQVMAAAQKGVQIIVFPEDGIHGFNFTRTSIYPFLDFMPSPKLVRWNPCLEPFVFRNDTEV
 LQRLSCMAIKGMFLVANLGTKQPCLSSDPGCPQDGRYQFNTNVVFSNGLVDRYRKHNLVYFAAFDTP
 ANVDLITFDTPFAGKFGVFTCFDILFFDPAVRLLRDFEVKHIVYPTAWMNQLPLLAIEIQKAFATAFGV
 NVLAANIHHPTLGMTGSGIHTPLKSFVYHMDDPKGLIIAQVATNPQGLTGTGNTTSEMDPSHRKFLKI
 LSGDPYCEKDAQEVHCDEAAKWNVNPPTFHSEMMYDNFTLVPVWGTGHLQVCSNSLCCHELLYERPTLS
 KELYALGVFDGLHTVHGTYIQTICALVKCGGLGFDTCGQEITEAEGLDFHFWGNFSTLYIFPLFLTSGM
 TLDTDPQLGWENDHYFLRKRGLSSGLVTAALYGRLYERK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

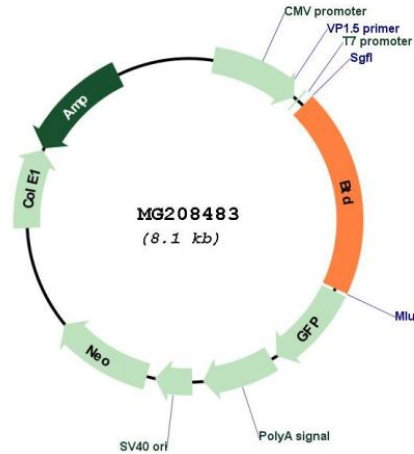


EcoRI
BamHI *KpnI*
RBS
Kozac
Consensus
SgfI
AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
T R T R P L E
M E S D - - -

PmeI
FseI
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - - E E R V Stop

Plasmid Map:



ACCN:	NM_025295
ORF Size:	1587 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_025295.4](#)

RefSeq Size: 1921 bp

RefSeq ORF: 1590 bp

Locus ID: 26363

UniProt ID: [Q8CIF4](#)

Cytogenetics: 14 B

Gene Summary: Catalytic release of biotin from biocytin, the product of biotin-dependent carboxylases degradation.[UniProtKB/Swiss-Prot Function]