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Product datasheet for RC238711

BTD (NM_001281725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTD (NM_001281725) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238711 representing NM_001281725
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGAGCCAGAAGTAAGCTTGCTCTTTTCCTCTGCGGCTGTTACGTGGTTGCCCTGGGAGCCCACA
CCGGGGAGGAGAGCGTGGCTGACCATCACGAGGCTGAATATTATGTGGCTGCCGTGTATGAGCATCCATC
CATCCTGAGTCTGAACCCTCTGGCTCTCATCAGCCGCCAAGAGGCCTTGGAGCTCATGAACCAGAACCTT
GACATCTATGAACAGCAAGTGATGACTGCAGCCCAAAAGGATGTACAGATTATAGTGTTTCCAGAAGATG
GCATTCATGGATTCAACTTTACAAGAACATCCATTTATCCATTTTTGGACTTCATGCCGTCTCCCCAGGT
GGTCAGGTGGAACCCATGCCTGGAGCCTCACCGCTTCAATGACACAGAGGTGCTCCAGCGCCTGAGTTGT
ATGGCCATCAGGGGAGATATGTTCTTGGTGGCCAATCTTGGGACAAAGGAGCCTTGTCATAGCAGTGACC
CAAGGTGCCCAAAAGATGGGAGATACCAGTTCAACACAAATGTCGTGTTCAGCAATAATGGAACCCTTGT
TGACCGCTACCGTAAACACAACCTCTACTTTGAGGCAGCATTCGATGTTCCTCTTAAAGTGGATCTCATC
ACCTTTGATACCCCCTTTGCTGGCAGGTTTGGCATCTTCACATGCTTTGATATATTGTTCTTTGACCCTG
CCATCAGAGTCCTCAGAGACTACAAGGTGAAGCATGTTGTGTACCCAACTGCCTGGATGAACCAGCTCCC
ACTCTTGGCAGCAATTGAGATTCAGAAAGCTTTTGCTGTTGCCTTTGGCATCAACGTTCTGGCAGCTAAT
GTCCACCACCCAGTTCTGGGGATGACAGGAAGTGGCATACACACCCCTCTGGAGTCCTTTTGGTACCATG
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AGAGAATGCAACAGGTGAAACGGACCCATCCCATAGTAAGTTTTTAAAAATTTTGTCAGGCGATCCGTAC
TGTGAGAAGGATGCTCAGGAAGTCCACTGTGATGAGGCCACCAAGTGGAACGTGAATGCTCCTCCCACAT
TTCACTCTGAGATGATGTATGACAATTTCACCCTGGTCCCTGTCTGGGGAAAGGAAGGCTATCTCCACGT
CTGTTCCAATGGCCTCTGCTGTTATTTACTTTACGAGAGGCCCACCTTATCCAAAGAGCTGTATGCCCTG
GGGGTCTTTGATGGGCTTCACACAGTACATGGCACTTACTACATCCAAGTGTGTGCCCTGGTCAGGTGTG
GGGGTCTTGGCTTCGACACCTGTGGACAGGAAATCACAGAGGCCACGGGGATATTTGAGTTTCACCTGTG
GGGCAACTTCAGTACTTCCTATATCTTTCCTTTGTTTCTGACCTCAGGGATGACCCTAGAAGTCCCTGAC
CAGCTTGGCTGGGAGAATGACCACTATTTCCTGAGGAAAAGTAGGCTGTCCTCTGGGCTGGTGACGGCGG
CTCTCTATGGGCGCTTGTATGAGAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

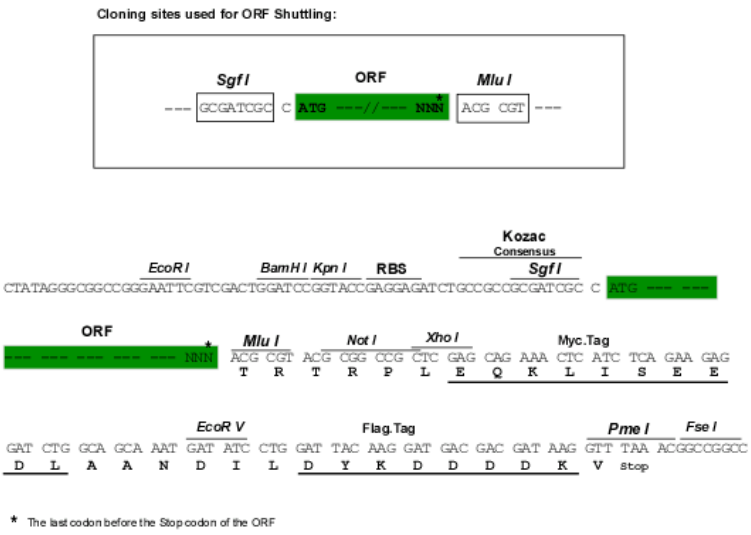
>RC238711 representing NM_001281725
Red=Cloning site Green=Tags(s)

MSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYYVAAVYEHPSILSLNPLALISRQEALELMNQNL
DIYEQQVMTAAQKDVQIIVFPEDGIHGFNFTRTSIYPFLDFMPSPQVVRWNPCLEPHRFNDTEVLQRLSC
MAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGTLVDRYRKHNLYFEAAFDVPLKVDLI
TFDTPFAGRFGIFTCFDILFFDPAIRVLRDYKVKHVVYPTAWMNQLPLLAAIEIQKAFAVAFGINVLAAN
VHHPVLGMTGSGIHTPLESFWYHDMENPKSHLIIAQVAKNPVGLIGAENATGETDPSHSKFLKILSGDPY
CEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSNGLCCYLLYERPTLSKELYAL
GVFDGLHTVHGTYYIQVCALVRCGGLGFDTCGQEITEATGIFEFHLWGNFSTSYIFPLFLTSGMTLEVPD
QLGWENDHYFLRKSRLSSGLVTAALYGRLYERD

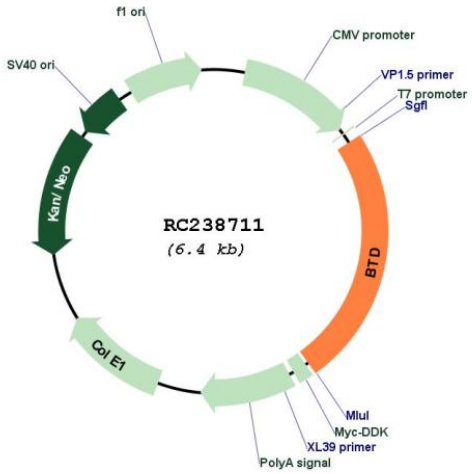
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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_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]