

## Product datasheet for **MR208410**

### **Btn1a1 (NM\_013483) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Btn1a1 (NM_013483) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Btn1a1
Synonyms:	Btn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208410 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGTTCACCAACTCCTGCCTCCTGGTCTGTCTGCTCACCTCACTGTCCTACAGCTGCCACGC  
 TGGATTCGGCTCCCTTCGATGTGACCGCACCTCAGGAGCCAGTGTGGCCCTAGTGGGCTCAGATGCCGA  
 GCTGACCTGTGGCTTTTCCCAAACGCGAGCTCAGAATACATGGAGCTGCTGTGGTTTCGACAGACGAGG  
 TCGACAGCGGTACTTCTATACCGGGATGGCCAGGAGCAGGAGGGCCAGCAGATGACGGAGTACCGCGGA  
 GGGCGACGCTGGCGACAGCCGGCTTCTAGACGGCCGCGTACTCTGCTGATCCGAGATGTCAGGGTCTC  
 AGACCAGGGGAGTACCGGTGCCTTTTCAAAGACAACGACGACTTCGAGGAGGCCCGCTATACCTCAA  
 GTGGCTGCTGTGGTTCCAGATCCTCAAATCAGTATGACGGTTCAGAGAAATGGAGAAATGGAGCTGGAGT  
 GCACCTCCTCGGATGGTACCCAGAGCCTCAGGTGCAGTGGAGAACAGGCAACAGAGAGATGCTACCATC  
 CACGTCAGAGTCCAAGAAGCATAATGAGGAAGGCTGTTCACTGTGGCAGTTTCAATGATGATCAGAGAC  
 AGCTCCATAAAGAACATGTCCTGCTGCATCCAGAATATCCTCCTTGGCCAGGGGAAGGAAGTAGAGATCT  
 CCTTACCAGCTCCCTTCGTGCCAAGGCTGACTCCCTGGATAGTAGCTGTGGCTATCATCTTACTGGCCTT  
 AGGATTTCTACCATTGGGTCCATATTTTTCACTTGAAACTATACAAGGAAAGATCCAGTCTGCCGAAG  
 AAGGAATTTGGCTCTAAAGAGAGACTTCTGGAAGAACTCAGATGCAAAAAGACTGTACTGCATGAAGTTG  
 ACGTGACTCTGGATCCAGACACAGCCACCCCCACCTCTCTGTATGAAGATTCAAAGTCAGTTCGATT  
 GGAAGATTCACGTCAGATCCTGCCTGATAGACCAGAGAGATTTGACTCCTGGCCCTGTGTGTTGGGCCGT  
 GAGACCTTACTTCAGGGAGACATTACTGGGAGGTGGAGTGGGAGATAGAAGTACTGGCCATTGGTG  
 TGTGATGGGAGAATGTGGTGAAGAAAGGTTTGACCCATGACTCCTGATAATGGGTTCTGGGCTGTGGA  
 GTTGATGGAAATGGGTACTGGGCCCTACCCCACTCAGGACCTCTCTCGATTAGCAGGGCCCCCTCGC  
 AGAGTTGGGGTTTTCTGGACTATGACGCAAGGACATTTCTTCTACAACATGAGTAACGGATCTCTTA  
 TCTATACTTTCCCTAGCATCTCTTTCTCTGGCCCCCTCCGTCCCTTCTTTTGTCTGTGGTCTGTGGTAA  
 AAAGCCCCTGACCATCTGTTCAACTGCCAATGGGCCTGAGAAAGTCACAGTCATTGCTAATGTCCAGGAC  
 GACATTCCTTGTCCCCGCTGGGGGAAGGCTGTACTTCTGGAGACAAAGACACTCTCCATTCTAAACTGA  
 TCCCGTTCTCACCTAGCCAAGCGGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208410 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVPTNSCLLVCLLTLTVLQLPTLDSAPFDVTAPEPVLALVGSDAELTCGFSPNASSEYMELLWFRQTR  
 STAVLLYRDGQEQEQQMTEYRGRATLATAGLLDGRATLLIRDVRSVSDQGEYRCLFKDNDDFEEAAVYLK  
 VAAVGSDPQISMTVQENGEMELECTSSGWYEPQVQWRTGNREMLPSTSESKKHNEEGLFTVAVSMMIRD  
 SSIKNMSCCIQNILLGQKEVEISLPAPFVPRLTPWIVAVAIILLALGFLTIGSIFFTWKLYKERSLRLK  
 KEFGSKERLLEELRCKKTVLHEVDVTLDPDAPHPLFLYEDSKSVRLEDSRQILPDRPERFDSWPCVLGR  
 ETFTSGRHYWEVEVGDRTDWAIGVCRENVVKKGFDPMPDNGFWAVELYGNGYWALPLRSLRLAGPPR  
 RVGVFLDYDAGDISFYNMSNGSLIYTFPSISFSGPLRPFCLWSCGKKPLTICSTANGPEKVTVIANVQD  
 DIPLSPLGEGCTSGDKDTHSKLIPFSPSQAAP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_013483

**ORF Size:** 1572 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\\_013483.1](#), [NM\\_013483.2](#), [NM\\_013483.3](#), [NP\\_038511.1](#)

**RefSeq Size:** 3454 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 12231

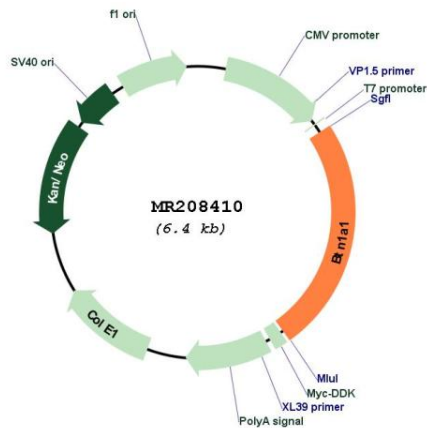
**UniProt ID:** [Q62556](#)

**Cytogenetics:** 13 9.72 cM

**MW:** 58.3 kDa

**Gene Summary:** May function in the secretion of milk-fat droplets. May act as a specific membrane-associated receptor for the association of cytoplasmic droplets with the apical plasma membrane (By similarity). Inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL2 and IFNG secretion.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208410