

Product datasheet for **MG208410**

Btn1a1 (NM_013483) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btn1a1 (NM_013483) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Btn1a1
Synonyms:	Btn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208410 representing NM_013483
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGTCCCACCAACTCCTGCCTCCTGGTCTGTCTGCTCACCCCTCACTGTCCTACAGCTGCCACGC
 TGGATTCGGCTCCCTTCGATGTGACCGCACCTCAGGAGCCAGTGTGGCCCTAGTGGGCTCAGATGCCGA
 GCTGACCTGTGGCTTTTCCCAAACGCGAGCTCAGAATACATGGAGCTGCTGTGGTTTCGACAGACGAGG
 TCGACAGCGGTACTTCTATACGGGATGGCCAGGAGCAGGAGGGCCAGCAGATGACGGAGTACCGCGGA
 GGGCGACGCTGGCGACAGCCGGCTTCTAGACGGCCGCGCTACTCTGCTGATCCGAGATGTCAGGGTCTC
 AGACCAGGGGAGTACCGGTGCCTTTTCAAAGACAACGACGACTTCGAGGAGGCCCGCTATACCTCAA
 GTGGCTGCTGTGGTTTCAGATCCTCAAATCAGTATGACGGTTCAGAGAAATGGAGAAATGGAGCTGGAGT
 GCACCTCCTCGGATGGTACCCAGAGCCTCAGGTGCAGTGGAGAACAGGCAACAGAGAGATGCTACCATC
 CACGTCAGAGTCCAAGAAGCATAATGAGGAAGGCTGTTCACTGTGGCAGTTTCAATGATGATCAGAGAC
 AGCTCCATAAAGAACATGTCCTGCTGCATCCAGAATATCCTCCTTGGCCAGGGGAAGGAAGTAGAGATCT
 CCTTACCAGCTCCCTTCGTGCCAAGGCTGACTCCCTGGATAGTAGCTGTGGCTATCATCTTACTGGCCTT
 AGGATTTCTACCAATTGGGTCCATATTTTTCACTTGGAACTATACAAGGAAAGATCCAGTCTGCGGAAG
 AAGGAATTTGGCTCTAAAGAGAGACTTCTGGAAGAACTCAGATGCAAAAAGACTGTACTGCATGAAGTTG
 ACGTGACTCTGGATCCAGACACAGCCACCCCCACCTCTTCTGTATGAAGATTCAAAGTCAGTTCGATT
 GGAAGATTCACGTCAGATCCTGCCTGATAGACCAGAGAGATTTGACTCCTGGCCCTGTGTGTTGGGCCGT
 GAGACCTTTACTTCAGGGAGACATTACTGGGAGGTGGAGGTGGGAGATAGAAGTACTGGCCATTGGTG
 TGTGATGGGAGAATGTGGTGAAGAAAGGTTTGACCCATGACTCCTGATAATGGGTTCTGGGCTGTGGA
 GTTGATGGAAATGGGTACTGGGCCCTCACCCACTCAGGACCTCTCTCGATTAGCAGGGCCCCCTCGC
 AGAGTTGGGGTTTTCTGGACTATGACGACAGGAGACATTTCTTCTACAACATGAGTAACGGATCTCTTA
 TCTATACTTTCCCTAGCATCTCTTTCTCTGGCCCCCTCCGTCCTTCTTTTGTCTGTGGTCTGTGGTAA
 AAAGCCCCTGACCATCTGTTCAACTGCCAATGGCCTGAGAAAGTCACAGTCATTGCTAATGTCCAGGAC
 GACATTCCTTGTCCCCTGGGGGAGGCTGTACTTCTGGAGACAAAGACACTCTCCATTCTAAACTGA
 TCCCGTTCTCACCTAGCCAAGCGGCACCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208410 representing NM_013483
 Red=Cloning site Green=Tags(s)

MAVPTNSCLLVCLLTLTVLQLPTLDSAPFDVTPAQEPVLALVGSDAELTCGFSPNASSEYMELLWFRQTR
 STAVLLYRDGQEQEQQMTEYRGRATLATAGLLDGRATLLIRDVRVSDQGEYRCLFKDNDDFEEAAVYLK
 VAAVGSQPQISMTVQENGELECTSSGWYEPQVQWRTGNREMLPSTSESKKHNEEGLFTVAVSMMIRD
 SSIKNMSCCIQNILLGQKEVEISLPAPFVPRTPWIVAVAIILLALGFLTIGSIFFTWKLYKERSLRLK
 KEFGSKERLLEELRCKKTVLHEVDVTLDPDTAHPHLFLYEDSKSVRLEDSRQILPDRPERFDSWPCVLGR
 ETFTSGRHYWEVEVGDRTDWAIGVCRENVVKKGFDPMPDNGFWAVELYNGYWALPLRSLRLAGPPR
 RVGVFLDYDAGDISFYNMSNGSLIYTFPSISFSGPLRPFCLWSCGKKPLTICSTANGPEKVTVIANVQD
 DIPLSPLGEGCTSGDKDTLHSLKIPFSPSQAAP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013483

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_013483.2](#), [NP_038511.1](#)

RefSeq Size: 4003 bp

RefSeq ORF: 1575 bp

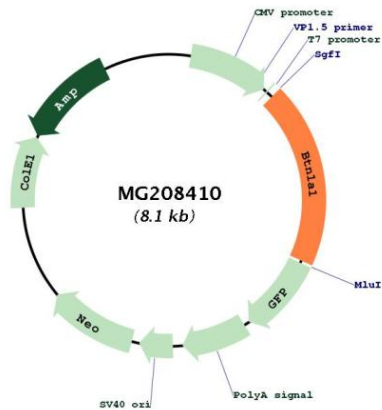
Locus ID: 12231

UniProt ID: [Q62556](#)

Cytogenetics: 13 9.72 cM

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 MG208410