

## Product datasheet for **RG223852**

### **BTN1A1 (NM\_001732) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BTN1A1 (NM_001732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTN1A1
Synonyms:	BT; BTN; BTN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223852 representing NM\_001732  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGTTTTCCAAGCTCCGGTCTCCCAGATGTCTGCTCACCCCTATTCTCCTCCAGCTGCCAAAC  
 TGGATTACGCTCCCTTTGACGTATTGGACCCCGGAGCCATCCTGGCCGTTGTGGGTGAGGACGCCGA  
 GCTGCCCTGTGCGCTGTCCCGAACGCGAGCGCCGAGCACTTGGAGCTACGCTGGTTCGAAAGAAGGTT  
 TCGCCGGCCGTGCTGGTGCATAGGGACGGGCGCGAGCAGGAAGCCGAGCAGATGCCCGAGTACCGCGGC  
 GGGCGACGCTGGTCCAGGACGGCATCGCCAAGGGGCGCGTGGCCTTGAGGATCCGTGGCGTCAGAGTCTC  
 TGACGACGGGGAGTACACGTGCTTTTTCAGGGAGGATGGAAGCTACGAAGAAGCCCTGGTGCATCTGAAG  
 GTGGCTGCTCTGGGCTCTGACCCTCACATCAGTATGCAAGTTCAAGAGAATGGAGAAATCTGTCTGGAGT  
 GCACCTCAGTGGGATGGTACCCAGAGCCCCAGGTGCAGTGGAGAATTCGAAGGAGAGAAGTTCCATC  
 TACATCAGAGTCCAGGAATCCTGATGAAGAAGGTTTGTCTACTGTGGCTGCTTCAGTGATCATCAGAGAC  
 ACTTCTACGAAAATGTGCTCCTGCTACATCCAGAATCTCCTTCTTGACAGGAGAAGAAAGTAGAAATAT  
 CCATACCAGCTTCTCCCTCCCAAGGCTGACTCCCTGGATAGTGGCTGTGGCTGTGCATCCTGATGTTCT  
 AGGACTTCTACCATTTGGGTCCATATTTTTCACTTGGAGACTATACAACGAAAGACCCAGAGAGAGGAGG  
 AATGAATTCAGCTCTAAAGAGAGACTCCTGGAAGAAGCTCAATGGAAAAAGGCTACCTTGCATGCAGTTG  
 ATGTGACTCTGGACCCAGACACAGCTCATCCCCACCTCTTTCTTTATGAGGATTCAAAATCTGTTGACT  
 GGAAGATTCACGTGAGAACTGCCTGAGAAAACAGAGAGATTTGACTCCTGGCCCTGTGTGTTGGGCCGT  
 GAGACCTTCACCTCAGGAAGGCATTACTGGGAGGTGGAGGTGGGAGACAGGACTGACTGGCAATCGGCG  
 TGTGTAGGGAGAATGTGATGAAGAAAGGATTTGACCCCATGACTCCTGAGAATGGGTTCTGGGCTGAGA  
 GTTGTATGGAAAATGGGTACTGGGCCCTCACTCCTCTCCGACCCCTCTCCATTGGCAGGGCCCCACGC  
 CGGTTTGGGATTTTCTAGACTATGAATCAGGAGACATCTCCTTCTACAACATGAATGATGGATCTGATA  
 TCTATACTTTCTCCAATGTCACTTTCTCTGGCCCCCTCCGGCCCTTCTTTTGCCTATGGTCTAGCGGTAA  
 AAAGCCCCTGACCATCTGCCAATTGCTGATGGCCCTGAGAGGTCACAGTCATTGCTAATGCCAGGAC  
 CTTTCTAAGGAGATCCCATTGTCCCCATGGGGAGGAGTCTGCCCTAGGGATGCAGACACTCTCCATT  
 CTAAGCTAATCCCTACCAACCCAGCCAAGGGGCACCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223852 representing NM\_001732  
 Red=Cloning site Green=Tags(s)

MAVFPSSGLPRCLLTLILLQLPKLDSAPFDVIGPPEPILAVVGEDAELPCRLSPNASAEHLELRWFRKKV  
 SPAVLVHRDGREQEAEQMPYRGRATLVQDGIAGRVALRIRGVRVSDDEYTCFFREDGSYEEALVHLK  
 VAALGSDPHISMVQENGEICLECTSVGWYEPQVQWRTSKGEKFPSTSESRNPDEEGLFTVAASVIIRD  
 TSTKNVSCIQNLGQEKKVEISIPASSLPRLTPWIVAVAVILMVLGLLTIGSIFFTWRLYNERPRERR  
 NEFSSKERLLEELKWKATLHAVDVTLDPDTAHPLFLYEDSKSVRLEDSRQKLPEKTERFDSWPCVLGR  
 ETFTSGRHYWEVEVGDRTDWAIGVCRENVMKGFDPMPENGFWAVELYNGYWALPLRTPPLAGPPR  
 RVGIFLDYESGDISFYNMNDGSDIYTFSNVTFSGPLRPFCLWSSGKKPLTICPIADGPERVTVIANAQD  
 LSKEIPLSPMGEEAPRDADTLHSKLIPTQPSQGAP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001732

**ORF Size:** 1578 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\\_001732.1](#), [NP\\_001723.1](#)

**RefSeq Size:** 2901 bp

**RefSeq ORF:** 1581 bp

**Locus ID:** 696

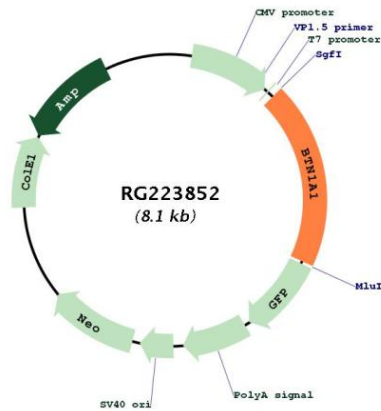
**UniProt ID:** [Q13410](#)

**Cytogenetics:** 6p22.2

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Butyrophilin is the major protein associated with fat droplets in the milk. It is a member of the immunoglobulin superfamily. It may have a cell surface receptor function. The human butyrophilin gene is localized in the major histocompatibility complex (MHC) class I region of 6p and may have arisen relatively recently in evolution by the shuffling of exons between 2 ancestral gene families [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG223852