

Product datasheet for **RG223245**

BTN2A2 (NM_181531) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN2A2 (NM_181531) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTN2A2
Synonyms:	BT2.2; BTF2; BTN2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223245 representing NM_181531 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCAGCTGCTGCTCTGCACTTCTCCCTGCCAGCCTCCCTCCTCCTCCTGCTCCTCCTCTTC
TCAGCCTGTGTGCACTGGTCTCAGGCCTTGGGTCTAAGCCCTCATTGAAATCAAGGCCAAGAGGATGG
GAGCATCTGGCTGGAGTGCATATCTGGAGGGTGGTACCCAGAGCCCTCACAGTGTGGAGGGACCCCTAC
GGTGAGGTTGTCCCGCCCTGAAGGAGGTTTCCATCGCTGATGCTGACGGCCTTTCATGGTCACCACAG
CTGTGATCATCAGAGACAAGTATGTGAGGAATGTGTCCTGCTGTCAACAACACCCTGCTCGGCCAGGA
GAAGGAAACTGTCATTTTTATTCCAGAATCCTTTATGCCAGCGCATCTCCCTGGATGGTGGCCCTAGCT
GTCATCCTGACCGCATCTCCCTGGATGGTGTCCATGACTGTCATCCTGGCTGTTTTTCATCATCTTCATGG
CTGTGACGATCTGTTGCATCAAGAACTTCAAAGGGAAAAAAGATTCTGTGAGGGGAAAAGAAAGTTGA
ACAAGAGGAAAAAGAAATTGCACAGCAACTTCAAGAAGAATTGCGATGGAGAAGAATTCCTTACATGCT
GCTGATGTGGTCTGGATCCAGACACCGCTCATCCCGAGCTCTTCCTGTGACAGGACCGGAGAAGTGTGA
GGCGGGGCCCCACAGGCAGAGAGTGCCTGACAACCCAGAGAGATTGACAGTCAGCCTTGTGCTCTGGG
ATGGGAGAGCTTCGCCTCAGGAAACATTACTGGAGGTGGAGGTGAAAAACGTGATGGTGTGACTGTG
GGGCTGCAGACACAGTGTGAGAGGAAAGGGAGGTCCTGCTGATTCCCTCAGAATGGCTTCTGGACCC
TGGAGATGTTTGAAACCAATACCGGGCCCTGTCTCCCTGAGAGGATTCTCCCTTGAAGGAGTCCCT
TTGCCGGTGGGCGTCTTCTGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCG
CACATCTACATGTCCCGTTCAGCCTTACTGTGCCTGTGAGGCCCTTCTTCAGGTTAGGGTCTGATG
ACAGCCCCATCTCATCTGCCCTGCACTCACAGGAGCCAGTGGGGTCATGGTGCCTGAAGAGGGCCTGAA
ACTTCACAGAGTGGGGACCCACCAGAGCCTA

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223245 representing NM_181531
 Red=Cloning site Green=Tags(s)

MEPAAALHFSLPASLLLLLLLLLLLLSLCALVSLGSKPLIEIKAQEDGSIWLECISSGGWYPEPLTVWRDPY
 GEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQEKETVIFIPESFMPSPASPMMVALA
 VILTASPMVMVMTVILAVFIIIFMAVSICCIKKLQREKKILSGEKKVEQEEKEIAQQLQEELRWRRTFLHA
 ADVVLDPDTAHPFLSEDRRSVRRGPYRQRPDNPFRFDSQPCVLGWESFASGKHWEVEVENVMWTV
 GVCRHSVERKGEVLLIPQNGFWTLEMFGNQYRALSSPERILPLKESLCRVGVFLDYEAGDVSFYNMRDRS
 HIYTCPRSAFTVPVPRPFRLGSDDSPIFICPALTGASGVMVPEEGLKLRVGHQSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181531

ORF Size: 1221 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_181531.3](#)

RefSeq Size: 3226 bp

RefSeq ORF: 1224 bp

Locus ID: 10385

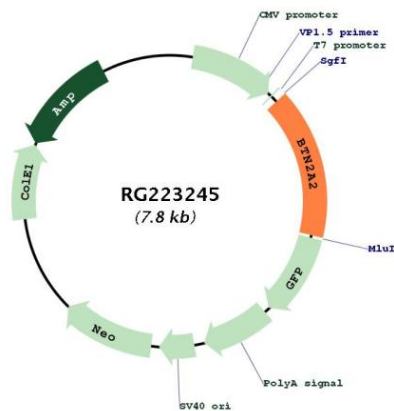
UniProt ID: [Q8WV5](#)

Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Butyrophilin is the major protein associated with fat droplets in the milk. This gene is a member of the BTN2 subfamily of genes, which encode proteins belonging to the butyrophilin protein family. The gene is located in a cluster on chromosome 6, consisting of seven genes belonging to the expanding B7/butyrophilin-like group, a subset of the immunoglobulin gene superfamily. The encoded protein is a type I receptor glycoprotein involved in lipid, fatty-acid and sterol metabolism. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RG223245