

Product datasheet for **RG231166**

BTN2A1 (NM_001197234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BTN2A1 (NM_001197234) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BTN2A1
Synonyms: BK14H9.1; BT2.1; BTF1; BTN2.1; DJ3E1.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231166 representing NM_001197234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAATCAGCTGCTGCCCTGCACTTCTCCCGCCAGCCTCCCTCCTCCTCCTCCTCAGCCTGTGTG
 CACTGGTCTCAGCCAGTTTATTGTCGTGGGGCCACTGATCCCATCTGGCCACGGTTGGAGAAAACAC
 TACGTTACGCTGCCATCTGTCACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGTTCCGGTCTCAG
 TTCTCCCCCGCAGTGTTTGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGAG
 GAAGAACCACCTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATACACAACATCACAGC
 CCAGGAAAACGGCACCTACCGCTGTTACTTCCAAGAAGGCAGGTCTACGATGAGGCCATCTGCACCTC
 GTAGTGGCAGGACTAGGCTCTAAGCCCCCATTTCATGAGGGGCCATGAAGACGGGGCATCCGGCTGG
 AGTGCATATCTAGAGGTGGTACCCAAAGCCCCTCACAGTGTGGAGGGACCCCTACGGTGGGGTTGCGCC
 TGCCCTGAAAGAGGTCTCCATGCCTGATGCAGACGGCCTTTCATGGTCACCACGGCTGTGATCATCAGA
 GACAAGTCTGTGAGGAACATGCCTGCTCTATCAACAACCCCTGCTCGGCCAGAAGAAAGAAAGTGTCA
 TTTTTATTCCAGAATCCTTTATGCCAGTGTGTCTCCCTGTGCAGTGGCCCTGCCTATCATTGTGGTTAT
 TCTGATGATACCCATTGCCGTATGCATCTATTGGATCAACAACTCCAAAAGGAAAAAAGATTCTGTCA
 GGGGAAAAGGAGTTTGAACGGGAAACAAGAGAAATTGCTCTAAAGGAACTGGAGAAAGAACGTGTGCAAA
 AAGAGGAAGAACTTCAAGTAAAAGAGAACTTCAAGAAGAATTGCGATGGAGAAGAACATTCTTACATGC
 TGGCCAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231166 representing NM_001197234
 Red=Cloning site Green=Tags(s)

MESAAALHFSRPASLLLLLLSLCALVSAQFIVVGPTDPI LATV GENTTLRCHLSPEKNAEDMEVRFRSQ
 FSPAVFVYKGGRETEEQMEEYRGRITTFVSKDISRGSVALVIHNITAEQNGTYRCYFQEGRSYDEAILHL
 VVAGLGSKPLISMRGHEDGGIRLEICISRGWYPKPLTVWRDPYGGVAPALKEVSMPPDADGLFMVTTAVIIR
 DKSVRNMSCSINNTLLGQKESVIFIPESFMPSPCAVALPIIVVILMIPIAVCIYWINKLQKEKKILS
 GEKEFERETREIALKELEKERVQKEEELQVKEKLQEELRWRRTFLHAGPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001197234

ORF Size: 990 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_001197234.3](#)

RefSeq Size: 1730 bp

RefSeq ORF: 993 bp

Locus ID: 11120

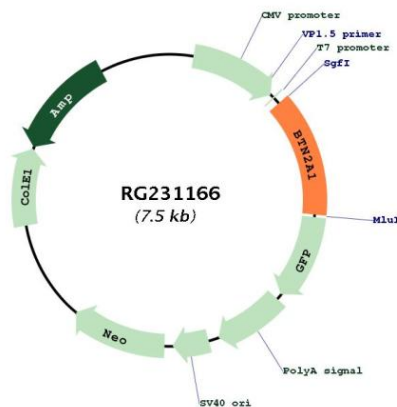
UniProt ID: [Q7KYR7](#)

Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the immunoglobulin superfamily. The gene is located in a cluster of butyrophilin-like genes in the juxta-telomeric region of the major histocompatibility complex on chromosome 6. A pseudogene of this gene has been identified in this cluster. The encoded protein is an integral plasma membrane protein involved in lipid, fatty-acid, and sterol metabolism. Alterations in this gene may be associated with several disease states including metabolic syndrome. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG231166