

## Product datasheet for SC322475

### BTN2A1 (NM\_078476) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BTN2A1 (NM_078476) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTN2A1
Synonyms:	BK14H9.1; BT2.1; BTF1; BTN2.1; DJ3E1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322475  
CGTTTCCTGCATCTCCAACATGGCGACCTAGGAGAAAGGAAGAACAATTTTTTCTCCT  
CTTTTGGGAAGGTTTGGCTCTAGTAGTGCCTGTGCCCTGGGAGATTGGAGAGAAGAGG  
GACGACTGGAGAATCGTCGAGAACCAGCGGAGAAAAGAAAAGCAACGTTTAATCTAGA  
AGGCCTCCTGTCCCTGCCTGCTCTGGGTGCTCATGGAATCAGCTGCTGCCCTGCACCTTCT  
CCCGGCCAGCCTCCCTCCTCCTCCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGT  
TTATTGTCGTGGGGCCCACTGATCCCATCTTGGCCACGGTTGGAGAAAACACTACGTTAC  
GCTGCCATCTGTACCCGAGAAAATGCTGAGGACATGGAGGTGCGGTGGTTCCGGTCTC  
AGTTTCCCCCGCAGTGTGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGG  
AGGAGTACCGAGGAAGAACCACCTTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCC  
TGGTCATACACAACATCAGGCCAGAAAACGGCACCTACCGCTGTTACTTCCAAGAAG  
GCAGGTCCTACGATGAGGCCATCCTGCACCTCGTAGTGGCAGGACTAGGCTCTAAGCCCC  
TCATTTCAATGAGGGGCCATGAAGACGGGGGCATCCGGCTGGAGTGCATATCTAGAGGGT  
GGTACCCAAAGCCCTCACAGTGTGGAGGGACCCCTACGGTGGGGTTGCGCCTGCCTGA  
AAGAGGTCTCCATGCCTGATGCAGACGGCCTTTCATGGTCAACACGGCTGTGATCATCA  
GAGACAAGTCTGTGAGGAACATGCTCCTGCTCTATCAACAACCCCTGCTCGGCCAGAAGA  
AAGAAAGTGTCAATTTTATTCCAGAATCCTTTATGCCAGTGTGTCTCCCTGTGCAGTGG  
CCCTGCCTATCATTGTGGTTATTCTGATGATACCCATTGCCGTATGCATCTATTGGATCA  
ACAAACTCCAAAAGGAAAAAAGATTCTGTGAGGGGAAAAGGAGTTTGAACGGGAAACAA  
GAGAAATTGCTCTAAAGGAACTGGAGAAAAGAACGTGTGCAAAAAGAGGAAGAACTTCAAG  
TAAAAGAGAACTTCAAGAAGAATTGCGATGGAGAAGAACATTCTTACATGCTGAGCTCC  
AATTCTTCTCAAAGTGAAGAACTGCTTCTGTCTGAGAGACAGAAGTGCAGCTTCAG  
TAATTCTCAGTGTGTGAGCTGCCTAGGATCAGAGAGCCTTCATGGAAGTGGCCACTACGT  
GGGGATCCCTTCAAGATATCTGAGACCTCTCTGGGGATCAGGAACACACAATCCCCAG  
GGTTCTGAGACCCAGGCCTAAACCTGAGACTTCTCTGCAGTTGATGTGGTCTGGAT  
CCAGACACCGCTCATCCGATCTTCTGTCAGAGACCGGAGAAGTGTGAGAAGTGC  
CCCTTCAGGCACCTAGGGGAGAGCGTGCCTGACAACCCAGAGAGATTCGACAGTCAAGCCT



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TGTGTCCTAGGCCGGGAGAGCTTCGCTTCAGGGAAACATTACTGGGAGGTGGAGGTGGAA  
AACGTGATTGAGTGGACTGTGGGGTCTGTAGAGACAGTGTGAGAGGAAAGGGGAGGTC  
CTGCTGATTCTCAGAATGGCTTCTGGACCTTGGAGATGCATAAAGGGCAATACCGGGCC  
GTGTCCTCCCCTGATAGGATTCTCCCTTGAAGGAGTCCCTTTGCCGGTGGGCGTCTTC  
CTGGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCGCACATCTAC  
ACATGTCCCCGTTACGCTTTTCCGTGCCTGTGAGGCCCTTCTTCAGGTTGGGGTGTGAG  
GACAGCCCCATCTTCATCTGCCCTGCACCTCACAGGACCAATGGGGTACGGTGCCTGAA  
GAGGGCCTGACACTTACAGAGTGGGGACCCACCAGAGCCTATAGAATCAATTCCTTGGT  
CTCACAGCCATGTAGACAAGCCCTGGTCACTCTCAGCAGCCACCGACAACACCCCTGGT  
GAAGACACGCCCTCCTCCCCTCTGGTCACACAAGAGAACATCTTCAGCTGCCTCTTTCA  
CACCCACTACAGACCTCAGCCCCAGTTTTCTCCTCCTACTAGGCTGTGTTTTTAGTAGT  
TCCTTTGCTTGAACATGGGATGGGATCCAGGCATAGGGAAGTGTGTTACACAGCTC  
CCAGCCAAGAAGAAAGTGTGAGAAGTTGATGGGCAGCAAACCTGCTGTTAACATCAGGG  
TGACCACATTAAGCCCAGTATTCCAGTTGGCACCAGAAGATATGGACTTGAATGAGGCC  
TACAGGGTTCACCAGGATGTAAGAGGAGAGAGGAATCCACAGGACCACCAGAGAGGAGAG  
GGAACCAGATATCGAGATCAGAGATAGAGGAAGTGAACCAGAGAGCTGGGAGGGACCAA  
GGTTGTAAGGGTGGCTAAGTCCCACCATAACAGCTAAGGGGACCTGGGAGATGATGGCTC  
ATTTCCACCCAGCCCAGGATTTCCAGAGCGCACATCCACAGGCCTGGACCTGGGATGAA  
GATGAATGAAGAACATGGATGCACGTGGATGTAGTTTGGCTCAGGTGTCCCTGCAGTTGG  
CAAGGAGTCAGTACTCAGTCCCTGAGTGTGGCTGAAATTTGAGGTCTGGCTGAGCCAAG  
GAGTAATGGACCAGATCTACCTCAGTATTCAAGTTCAGTGGGGACACCAGTGGCTTCAA  
CTTCTGGTTTCATGATATCTTGAGACGCCTTACAATGATGGAGATTCCAAAGAGTTT  
TTGTTTATTTGGTTAATATTTGTTGGTATTTATGGCATTGAGATTGAAACTAAGAAAT  
GTTTTAATTTATTACCTTACAACATTTATTTACATTACATACATACATTACAACATTT  
ATTAATTTATATTTAAAATAGCATGAATAAGCCAATTATAGGTTAATATAAGTAGAATGTT  
TGTGAAAAATAAGTATGGTATCCAAAGCAAATAAATTTTATTGTGAAGTGTGAAAAAAA  
AAAAAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_078476

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_078476.1](#), [NP\\_510961.1](#)

RefSeq Size: 3129 bp

RefSeq ORF: 1005 bp

Locus ID: 11120

UniProt ID: [Q7KYR7](#)

Cytogenetics: 6p22.2

Domains: IGv, IG

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]  
Transcript Variant: This variant (2) This variant (2) uses an alternate splice site on the 3'-most exon, compared to variant 1. The encoded isoform (2) is shorter and has a unique C-terminus compared to isoform 1.