

Product datasheet for **SC127648**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_078476, the custom clone sequence may differ by one or more nucleotides

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ATGGAATCAGCTGCTGCCCTGCACTTCTCCCGGCCAGCCTCCCTCCTCCTCCTCCTCAGCCTGTGTG
CACTGGTCTCAGCCCAGTTTATTGTCGTGGGGCCCACTGATCCCATCTTGCCACGGTTGGAGAAAACAC
TACGTTACGCTGCCATCTGTCACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGGTCCGGTCTCAG
TTCTCCCCCGCAGTGTTTGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGAG
GAAGAACCACCTTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATACACAACATCACAGC
CCAGGAAAACGGCACCTACCGCTGTTACTTCCAAGAAGGCAGGTCTACGATGAGGCCATCTGCACCTC
GTAGTGGCAGGACTAGGCTCTAAGCCCCTCATTTCAATGAGGGGCCATGAAGACGGGGGCATCCGGCTGG
AGTGCATATCTAGAGGGTGGTACCCAAAGCCCCTCACAGTGTGGAGGGACCCCTACGGTGGGGTTGCGCC
TGCCCTGAAAGAGGTCTCCATGCCTGATGCAGACGGCCTCTTCATGGTCAACCACGGCTGTGATCATCAGA
GACAAGTCTGTGAGGAACATGTCCTGCTCTATCAACAACACCCTGCTCGGCCAGAAGAAAGAAAGTGCA
TTTTTATTCCAGAATCCTTTATGCCAGTGTGTCTCCCTGTGAGTGGCCCTGCCTATCATTGTGGTTAT
TCTGATGATACCCATTGCCGTATGCATCTATTGGATCAACAACTCCAAAAGGAAAAAAGATTCTGTCA
GGGAAAAGGAGTTTGAACGGGAAACAAGAGAAATTGCTCTAAAGGAAGTGGAGAAAGAAGTGTGCAAA
AAGAGGAAGAAGTCAAGTAAAAGAGAACTTCAAGAAGAATTGCGATGGAGAAGAAGTCTTACATGC
TGAGCTCCAATTCTTCTCAAAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_078476 unedited
 GTAATACGACTTACTATAGGGCCGCGCAATTCGGCACGAGGGAAGTTTGCCTAGT
 AGTGCCTGTGCCCTGGGCAGATTGGAGAGAAGAGGGACGACTGGAGAATCGTCGAGAAC
 CAGCGGAGAAAAGAAAAGCAACGTTTAAATTCTAGAAGGCCTCCTGTCCCTGCCTGCTCT
 GGGTGCTCATAGAATCAGCTGCTGCCCTGCACTTCTCCCGCCAGCCTCCCTCCTCCTCC
 TCCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGTTTATTGTCGTGGGGCCCACTGATC
 CCATCTTGGCCACGGTTGGAGAAAACACTACGTTACGCTGCCATCTGTCACCCGAGAAAA
 ATGCTGAGGACATGGAGGTGCGGTGTTCCGGTCTCAGTTCTCCCGCAGTGTTTGTGT
 ATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGAGGAAGAACCACCT
 TTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATACACAACATCACAGCCC
 AGGAAAACGGCACCTACCGCTGTACTTCCAAGAAAGCAGGTCTACGATGANGCCATCC
 TGCACCTCGTAGTGGCAGAGCTTCTGGAAGCTGANGTCTACTGAGAAGTCGTCCAGAAG
 CAGAAAGTAAAATCCANACCTGCCTGTTGAAGTGGAGTCGACACACCATCTCAAGACTA
 NGCTCTAAGCCCTCATTTATGANGGGCCATGAAGACGGNGGCATNCCGCTGGAGTGCAT
 ATCTAGAAGTGGGACCCAAAGCCCTNACAGTGTGAAGGACCCCTACGTGGGGTTGCG
 CCTGCCCTGAAGAGTCTNCATGCCTGATGCAAACAGCCTTTCATGGTCACCAGGCTGT
 GATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_078476 unedited
 CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTACACACTTAACAATAAA
 ATTTATTTTGCTTTGGATACCATACTTATTTTTTACAAACATTCTACTTATATTAACCTA
 TAATTGGCTTATTCATGCTATTTAATAATAAATAAATAAATGTTGAAAATGTATGTATGT
 AATGTAATAAATGTTGTAAGGTAATAAATAAATAAATTTCTTAGTTTCAATCTCAAAAT
 GCCATAAATACCAACAAATATTAACCCAAATAAACAATAAATCTTTGGAATCCTCCATCA
 TTTGTAAGGCGTCTCAAGATATCATGAAACCAGGAAGTTTGAAGCCACTGGTGTCCCCAC
 TGAACCTGAATACTGAGGTAGATCTGGTCCATTACTCCTTGGCTCAGCCAGGACCTCAA
 TTTAGCCACACTCAGGGACTGAGTACTGACTCCTTGCCAACTGCAGGGACACTGAGCC
 AAATAACATCCACGTGCATCCATGTCCTTCAATTCATCTTATCCAGGCCAGGCCTGTG
 GATGTGCGCTCTGAAAATCCTGCGGCTTGGGTGAAAATGAGCCATCCTCTCCAGGTCCC
 CTAACCTGTTATGGGTGGACTCTACCCCTTACAACCTTGGCCCTTTCAGCTATCC
 GGTCCCACTCTCTCCCTTACCCGCAACATCTGGGTTCCCTCCTCCTCCCTGCGGGG
 TCTGGGTATTCCTTTTCCCTTACCACCCTGGGGAACCCCTTTAGCCCCATTCCACCC
 CCTACCTTTTGCCTCAATTGGCAATTTGCGCTTACCGTGGTTCCCTTTGATTTAACAACA
 AGTCTGTTGCTTAAACCTTTACCTTTTCCCCCTGGGACTTGTTCACAATATCCCC
 TTCTCCTGGACCTTCTTTTCCACCCCTTTTCTCCCCCTCTTTTGCCTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_078476

Insert Size:

3110 bp

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).

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:	<ol style="list-style-type: none">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:	<u>NM_078476.1</u> , <u>NP_510961.1</u>
RefSeq Size:	3129 bp
RefSeq ORF:	1005 bp
Locus ID:	11120
UniProt ID:	<u>Q7KYR7</u>
Cytogenetics:	6p22.2
Domains:	IGv, IG
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>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]</p> <p>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.</p>