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Product datasheet for SC110223

BTN2A1 (NM_007049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN2A1 (NM_007049) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTN2A1
Synonyms:	BK14H9.1; BT2.1; BTF1; BTN2.1; DJ3E1.1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_007049, the custom clone sequence may differ by one or more nucleotides

ATGGAATCAGCTGCTGCCCTGCACTTCTCCCGGCCAGCCTCCCTCCTCCTCCTCCTCAGCCTGTGTG
CACTGGTCTCAGCCCAGTTTATTGTCGTGGGGCCCACTGATCCCATCTTGGCCACGGTTGGAGAAAACAC
TACGTTACGCTGCCATCTGTCACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGGTTCCGGTCTCAG
TTCTCCCCCGCAGTGTTTGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGAG
GAAGAACCACCTTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATACACAACATCACAGC
CCAGGAAAACGGCACCTACCGCTGTTACTTCCAAGAAGGCAGGTCCTACGATGAGGCCATCCTGCACCTC
GTAGTGGCAGGACTAGGCTCTAAGCCCCTCATTTCAATGAGGGGCCATGAAGACGGGGGCATCCGGCTGG
AGTGCATATCTAGAGGGTGGTACCCAAAGCCCCTCACAGTGTGGAGGGACCCCTACGGTGGGGTTGCGCC
TGCCCTGAAAGAGGTCTCCATGCCTGATGCAGACGGCCTCTTCATGGTCACCACGGCTGTGATCATCAGA
GACAAGTCTGTGAGGAACATGTCCTGCTCTATCAACAACACCCTGCTCGGCCAGAAGAAAGAAAGTGTCA
TTTTTATTCCAGAATCCTTTATGCCCAGTGTGTCTCCCTGTGCAGTGGCCCTGCCTATCATTGTGGTTAT
TCTGATGATACCCATTGCCGTATGCATCTATTGGATCAACAAACTCCAAAAGGAAAAAAAGATTCTGTCA
GGGGAAAAGGAGTTTGAACGGGAAACAAGAGAAATTGCTCTAAAGGAACTGGAGAAAGAACGTGTGCAAA
AAGAGGAAGAACTTCAAGTAAAAGAGAAACTTCAAGAAGAATTGCGATGGAGAAGAACATTCTTACATGC
TGTTGATGTGGTCCTGGATCCAGACACCGCTCATCCCGATCTCTTCCTGTCAGAGGACCGGAGAAGTGTG
AGAAGGTGCCCCTTCAGGCACCTAGGGGAGAGCGTGCCTGACAACCCAGAGAGATTCGACAGTCAGCCTT
GTGTCCTAGGCCGGGAGAGCTTCGCTTCAGGGAAACATTACTGGGAGGTGGAGGTGGAAAACGTGATTGA
GTGGACTGTGGGGGTCTGTAGAGACAGTGTTGAGAGGAAAGGGGAGGTCCTGCTGATTCCTCAGAATGGC
TTCTGGACCTTGGAGATGCATAAAGGGCAATACCGGGCCGTGTCCTCCCCTGATAGGATTCTCCCTTTGA
AGGAGTCCCTTTGCCGGGTGGGCGTCTTCCTGGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAG
GGACAGATCGCACATCTACACATGTCCCCGTTCAGCCTTTTCCGTGCCTGTGAGGCCCTTCTTCAGGTTG
GGGTGTGAGGACAGCCCCATCTTCATCTGCCCTGCACTCACAGGAGCCAATGGGGTCACGGTGCCTGAAG
AGGGCCTGACACTTCACAGAGTGGGGACCCACCAGAGCCTATAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007049 unedited
CGGTCAGATTTGTATACGACTCACTATAGGGCGGCCGCGATTCGGCACGAGGGTTTCCTG
CATCTCCAAACATGGCGACCTAGGAGAAAGGGAAGAACAATTTTTTCTCCTCTTTTGGGA
AGGTTTGCGTCTAGTAGTGCCTGTGCCCCTGGGCAGATTGGAGAGAAGAGGGACGACTGG
AGAATCGTCGAGAACCAGCGGAGAAAAGAAAAAGCAACGTTTAATTCTAGAAGGCCTCCT
GTCCCTGCCTGCTCTGGGTGCTCATAGAATCAGCTGCTGCCCTGCACTTCTCCCGGCCAG
CCTCCCTCCTCCTCCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGTTTATTGTCG
TGGGGCCCACTGATCCCATCTTGGCCACGGTTGGAGAAAACACTACGTTACGCTGCCATC
TGTCACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGGTTCCGGTCTCAGTTCTCCC
CCGCAGTGTTTGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACC
GAGGAAGAACCACCTTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATAC
ACAACATCACAGCCCAGGAAAACGGCACCTACCGCTGTTACTTCCAAGAAGGCAGGTCCT
ACGATGAGGCCATCCTGCACCTCGTAGTGGCAGGACTAGGCTCTAAGCCCCTCATTTCAA
TGAGGGGCCATGAAGACGGNGGCATCCGGCTGGAGTGCATATCTAGAGGGTGGTACCCAA
AGCCCCTCACAGTGTGGAGGGACCCCCTACGTGGGGTTGCGCCTGCCCTTGAAGAGGTCT
CCATGCCTGATGCAGACGGCCTCTTCATGGTCACCACGGCTGTGATCATCAGAGACAAGT
T

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_007049 unedited
GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACCACTTCCCAATAAAATTA
TTTTGCTTTGGATACCATACTTATTTTTCACAAACATTCTACTTATATTAACCTATAATG
GGCTTATTCATGCTATTTTAATATAAATTAATAAATGTTGCAAATGTATGTATGTAATGC
AAATAAATGTTGAAAAGGGAACAAATTAAAACATCCCTCACTTCCAATCTCAAATGCCCA
TAACTACCAACAAATATTACCCCAAATAATCACCAACTCTTTGGAATCCTCCATCATTTG
TACGGCGCCTCAAGATCTCTTGAAACCACCACTTTCCACCCCCCTGGCGTCCCTATTTAC
CTCCCAATCCTGCGGCGCACCCCCCCCCTCTCTTCCTTCGGCGGGGGGGGGCCCCCCCCT
ATCACCGCCCCTTTCCCGGCTCTCGCGACTTATATCCCTTTTTCCGCATGTCCGCCCCCT
CCCCCCTTCTTTTGGTACCCCTCCCCTCACCGCCTCCTCCCCACGCCCGCTCTCCACGTC
CAACTCCCTTTCTCTCCCCTTTGTCCCCCCCTCCCCCCTCTTTCCTGCCCCCTTCCCTAC
CTCGTCTCCTCTTCCCCCACCCCTCTCCCCCTTTTCTCCCCGCCCTTTCCCCCCCCTCAT
CCCCCTTCCCCCGCCCTACGCCCATCCACACCCCCCCCTCGTCACGCTCACCACCACTAA
TCGCGACAGTTCCGCGCGCCCCCCTGTTCCCCCCCGACGTTTTTTATTTTTGGGCTGGCG
AGGATCCCCCCCACCGTTCCCGCCTTTTTCTCCCCCCCCCCCCCCCTCTCCCATCCATTGT
TTCTCTTCGCTCCCTCGCTCCTCTTCGCCGCACATGCGACTCTCTTCCCAGTTCTTCTTC
CGCGCCCCCCTCGCTTTTTAGCCCACGCCCCCTGCGCCCCTTGTCTTTTCGCGGCCCCCG
CCACCCGCCCCTTTCTT
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Restriction Sites: NotI-NotI

ACCN: NM_007049

Insert Size: 2600 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:
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_007049.2, NP_008980.1

RefSeq Size: 2957 bp

RefSeq ORF: 1584 bp

Locus ID: 11120

UniProt ID: Q7KYR7

Cytogenetics: 6p22.2

Domains: IGv, IG, SPRY, PRY

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 (1) encodes the longest isoform (1).