

Product datasheet for **SC127660**

BTN2A2 (NM_181531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN2A2 (NM_181531) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTN2A2
Synonyms:	BT2.2; BTF2; BTN2.2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127660 sequence for NM_181531 edited (data generated by NextGen Sequencing)

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ATGGAACCAGCTGCTGCTGCACTTCTCCCTGCCAGCCTCCCTCCTCCTCCTGCTC
CTCCTCCTTCTCAGCCTGTGTGCACTGGTCTCAGGCCTTGGGTCTAAGCCCTCATTGAA
ATCAAGGCCCAAGAGGATGGGAGCATCTGGCTGGAGTGCATATCTGGAGGTTGGTACCCA
GAGCCCTCACAGTGTGGAGGGACCCCTACGGTGAAGTTGTGCCGCCCTGAAGGAGTT
TCCATCGTGATGCTGACGGCCTTTCATGGTCACCACAGCTGTGATCATCAGAGACAAG
TATGTGAGGAATGTGCTGCTGTGCAACAACACCCTGCTCGGCCAGGAGAAGGAACT
GTCATTTTTATTCCAGAATCCTTTATGCCAGCGCATCTCCCTGGATGGTGGCCCTAGCT
GTCATCCTGACCGCATCTCCCTGGATGGTGTCCATGACTGTCATCCTGGCTGTTTTATC
ATCTTCATGGCTGTCAGCATCTGTTGCATCAAGAACTTCAAAGGAAAAAAGATTCTG
TCAGGGGAAAAGAAAGTTGAACAAGAGGAAAAAGAAATTGCACAGCAACTTCAAGAAGAA
TTGCGATGGAGAAGAACATTCTTACATGCTGCTGATGTGGTCTGGATCCAGACACCGCT
CATCCCGAGCTCTTCTGTCAGAGGACCGGAGAAGTGTGAGGCGGGGCCCTACAGGCAG
AGAGTGCCTGACAACCCAGAGAGATTCGACAGTCAGCCTTGTGTCCTGGGATGGGAGAGC
TTCGCCTCAGGGAACATTACTGGGAGGTGGAGGTGAAAACGTGATGGTGTGGACTGTG
GGGCTGTCAGACACAGTGTGAGAGGAAAGGGAGGTCTCTGATTCTCAGAATGGC
TTCTGGACCCTGGAGATGTTTGGAAACCAATACCGGCCCTGTCTCCCTGAGAGGATT
CTCCCTTTGAAGGAGTCCCTTTGCCGGTGGGCGTCTTCTGGACTATGAAGCTGGAGAT
GTCTCCTTCTACAACATGAGGGACAGATCACACATCTACACATGTCCCGTTTCAGCCTTT
ACTGTGCCTGTGAGGCCCTTCTTCAGGTTAGGGTCTGATGACAGCCCATCTTCATCTGC
CCTGCACTCACAGGAGCCAGTGGGGTCATGGTGCCTGAAGAGGCCTGAAACTTCACAGA
GTGGGGACCCACCAGAGCCTATAG

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Clone variation with respect to NM_181531.2
1050 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_181531 unedited TATCGGAAAATCGTCATGTGAGGATCAGAGGGGAAAAGAAAACAGGCCTCTGGTCTCTGC CTGCCCTGGGTGCTCATGGAACCAAGCTGCTGCTCTGCACTTCTCCCTGCCAGCCTCCCTC CTCCTCCTCTGCTCCTCCTCTCTCAGCCTGTGTGCACTGGTCTCAGCCCAGTTTACT GTCGTGGGGCCAGCTAATCCCATCTGGCCATGGTGGGAGAAAACACTACATTACGCTGC CATCTGTACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGGTTCCGGTCTCAGTTC TCCCCCGCAGTGTGGTGTATAAGGGTGGGAGAGAGAGAACAGAGGAGCAGATGGAGGAG TACCGGGGAAGAATCACCTTTGTGAGCAAAGACATCAACAGGGGCAGCGTGGCCCTGGTC ATACATAACGTCACAGCCAGGAGAATGGGATCTACCGCTGTTACTTCCAAGAAAGCAGG TCCTACGATGAGGCCATCCTACGCCTCGTGGTGGCAGGCCTTGGGTCTAACCCCTCATTG AATCAAGGCCCAAGAGATGGGAGCATCTGGCTGAAGTGCATATCTGGAAGGTGTACCC AAGCCCTNACAGTGTGGAGGGACCCCTACGGGGAGGTGGCCCCCCTGAAAGGAGTT TCCATCCGTGATGCTGACGGCCCTTTCATTGTACCCAAGCTTGGATCCTCAGAGAACAA TATGTGAGGAATGTGCTCTGTTCTGACACAAACCCCTGTTTCGGCAGAAAAAGGAACTG TCTTTTTATTCAAAAACCTTTTCCCACGCATTTTCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_181531 unedited GAACGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTAACCTATAAC TGATTTATTAATGCTATTTTAACATAAAATAAAAGATAACATTTTAAATTTTGTTCAA TGTCAAATGTCATAAATATTAACCAAATAAACAAAAGCTCTTAAAGTCTCAATAACT TCTAAGTGTCTAAAAACATAATTAGATCAGGAAGTTTGAAGCCACTGGTGTCCCCATTGA ACCTGAATGCTGACGTAACCTGGTCCAGTACTGCCCTGCTCGACCAGGACCTCAAACCT CAACCACACTCAGGGACTAAGTACTGACCCCTGTTTATTGCAGGGACATCTGACCCAAA CCACATTCACATGAGCCATGTTCTTCATTCATCTCCAGGTCCAGGCCTGCGCGC GGCGTGTGTGAAACCCCTGGGGTGGGAAACGACCCATTATCCTCTATGACCTTCTA CCCCCACGGCGGGATTTACCCATCCTTAAATCTTGGCCCTCTCCACCTTTCTGGTCCC CTTTTTACCCCATGCTCCGGAATTCGTTTTCCCTTAGCCCTTCGCGCGTTTTGCGT TCCACTATATCTCCCCCTCGCGGCTCTCGTTCTGTTCCCTCCCCCTCTTTTTTT TCCCCCTTCGCTCCCCTCGCTATATGTTTCATCCCCTATTCTTCACGTGAACGCCCC CCTATTTCCCCCGTTTTTTCCCTCCCTCTTTTACAATATTCGAGAATTCGCTTAATGCT GGTCTCAACAGCCCGCCACGACGTTTCGACCCTCTCCTTTCTGTCCCGCATCATATTT CAACCCCTTCCCGTACCCGCGTTTTGTCACCTCCCTGTTTCCCTATCTTTTTCCCGTATT TTATCCACCCCTTTTTTCCCCCCCCACTTTCTTTCTCCATATTTCTCTATCGACAC TTCGGATACCACACTCTACGCGATCGCCGCTAATNCCATATTCGCGCCCTGCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_181531
Insert Size:	2660 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_181531.1](#), [NP_853509.1](#)

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]
Transcript Variant: This variant (2) lacks an in-frame exon in the 5' region compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.