

Product datasheet for **SC310243**

BTN3A3 (NM_006994) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A3 (NM_006994) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTN3A3
Synonyms:	BTF3; BTN3.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310243 representing NM_006994.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAAATGGCAAGTCCCTGGCTTTCCTTCTGCTCAACTTTCATGTCTCCCTCTTCTTGGTCCAGCTG
CTCACTCCTTGTCTCAGCTCAGTTTTCTGTCTGGACCTCTGGGCCATCCTGGCCATGGTGGGTGAA
GACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGAGGTGGTGAGT
TCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAGGAAGTGAAGACAGGCAGAGTGCACCG
TATCGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAAC
GTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTACGAAAAAGCCCTG
GTGGAGCTGAAGTTGCAGCATTGGGTTCTGATCTTACATTGAAGTGAAGGTTATGAGGATGGAGGG
ATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCAACCCCAATAAAGTGGAGCGACACCAAGGGA
GAGAACATCCCGCTGTGAAGCACCTGTGTTGCAGATGGAGTGGCCCTGTATGCAGTAGCAGCATCT
GTGATCATGAGAGGCAGCTCTGGTGGGGTGTATCCTGCATCATCAGAAATCCCTCCTCGGCCCTGGAA
AAGACAGCCAGCATATCCATCGCAGACCCCTTCTCAGGAGCGCCAGCCCTGGATCGCGGCCCTGGCA
GGGACCCTGCCTATCTCGTTGCTGCTTCTCGCAGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAA
AAAATTGCTCTGTCCAGGGAGACAGAAAGAGAGCGAGAGATGAAAGAAATGGGATACGCTGCAACAGAG
CAAGAAAATAAGCCTAAGAGAGAAGCTCCAGGAGGAACTCAAGTGGAGGAAAATCCAGTACATGGCTCGT
GGAGAGAAGTCTTTGGCCTATCATGAATGGAAAATGGCCCTTCAAACCTGCGGATGTGATTCTGGAT
CCAGACACGGCAAACGCCATCCTCCTTGTCTGAGGACCAGAGGAGTGTGCAGCGTGTGAAGAGCCG
CGGGATCTGCCAGACAACCCTGAGAGATTTGAATGGCGTTACTGTGTCTTGGCTGTGAAAACCTCACA
TCAGGGAGACATTACTGGGAGGTGGAAGTGGGGACAGAAAAGAGTGGCATATTGGGGTATGTAGTAAG
AACGTGGAGAGGAAAAAAGGTTGGGTCAAATGACACCGGAGAACGGATCTGGACTATGGGCTGACT
GATGGGAATAAGTATCGGGCTCTCACTGAGCCAGAACCAACCTGAAACTTCTGAGCCTCCTAGGAAA
GTGGGGATCTTCTGACTATGAGACTGGAGAGATCTCGTTCTATAATGCCACAGATGGATCTCATATC
TACACCTTTCCGCACGCCTTTTCTGAGCCTCTATATCCTGTTTTCAGAAATTTGACCTTGGAGCCC
ACTGCCCTGACCATTTGCCCAATACCAAAAAGAGTAGAGAGTTCCCCCGATCCTGACCTAGTGCCTGAT
CATTCCCTGGAGACCACTGACCCCGGGCTTAGCTAATGAAAGTGGGGAGCCTCAGGCTGAAGTAACA
TCTCTGCTTCTCCCTGCCACCCTGGAGCTGAGGTCTCCCCTTCTGCAACAACCAATCAGAACCAAG
CTACAGGCACGCACTGAAGCACTTTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_006994
- Insert Size:** 1755 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).
- 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:	<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:	NM_006994.4
RefSeq Size:	3019 bp
RefSeq ORF:	1755 bp
Locus ID:	10384
UniProt ID:	O00478
Cytogenetics:	6p22.2
Domains:	IGv, IG, SPRY, PRY
Protein Families:	Druggable Genome, Transmembrane
MW:	65 kDa
Gene Summary:	<p>The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1; MIM 613590) and BTN3 (e.g., BNT3A3) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).[supplied by OMIM, Nov 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>