

Product datasheet for SC313792

BTN3A1 (NM_007048) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BTN3A1 (NM_007048) Human Untagged Clone
Tag: Tag Free
Symbol: BTN3A1
Synonyms: BT3.1; BTF5; BTN3.1; CD277
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_007048 edited
 ATGAAAATGGCAAGTTTCCTGGCCTTCCTTCTGCTCAACTTTTCGTGTCTGCCTCCTTTTG
 CTCAGCTGCTCATGCCCTCACTCAGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCCATC
 CTGGCCATGGTGGTGAAGACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCA
 GAGACCATGGAGCTGAAGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCA
 GATGGAAGGAAGTGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAAGTTCGATTCTG
 CGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGAC
 AGTGGAAAGTACTTGTGTATTTCCAAGATGGTGACTTCTATGAAAAAGCCCTGGTGGAG
 CTGAAGGTTGCAGCACTGGGTTCTGATCTTACGTTGATGTGAAGGTTACAAGGATGGA
 GGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCAACCCCAAATACAGTGGAGC
 AACACAAGGGAGAGAACATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGC
 CTGTATGCAGTAGCAGCATCTGTGATCATGAGAGGCAGCTCTGGGGAGGGTGTATCCTGT
 ACCATCAGAAATTCCCTCCTCGGCCTGGAAAAGACAGCCAGCATTTCATCGCAGACCCC
 TTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCAGGGACCCTGCCTGTCTTGCTG
 CTGCTTCTGGGGAGCCGGTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAG
 TTCAGAAAAGAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAATGAAGCAA
 GAACAAAGCACAAAGAGTGAAGCTCCTGGAGGAACCTCAGATGGAGAAGTATCCAGTATGCA
 TCTCGGGGAGAGAGACATTACGCTATAATGAATGGAAAAAGGCCCTCTCAAGCCTGCC
 GATGTGATTCTGGATCCAAAAACAGCAAACCCATCCTCCTTGTCTGAGGACCAGAGG
 AGTGTGCAGCGTGCCAAAGGAGCCCGAGGATCTGCCAGACAACCCTGAGAGATTTAATTGG
 CATTATTGTGTTCTCGGCTGTGAGAGCTTCATATCAGGGAGACATTACTGGGAGGTGGAG
 GTAGGGGACAGGAAAGAGTGGCATATAGGGGTGTGCAAGTAAAGTGTGCAGAGAAAAGGC
 TGGGTCAAATGACACCTGAGAATGGATTCTGGACTATGGGGCTGACTGATGGGAATAAG
 TATCGGACTCTAACTGAGCCCAGAACCAACCTGAAACTTCTAAGCCCCTAAGAAAGTG
 GGGTCTTCTGGACTATGAGACTGGAGATATCTATTCTACAATGCTGTGGATGGATCG
 CATATTCATACTTCTGGACGCTCTCTCTCTGAGGCTCTATATCCTGTTTTTCAGAATT
 TTGACCTTGAGCCACGGCCCTGACTATTTGTCCAGCGTGA



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Restriction Sites:	Please inquire
ACCN:	NM_007048
Insert Size:	3100 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_007048.3 , NP_008979.3
RefSeq Size:	3422 bp
RefSeq ORF:	1542 bp
Locus ID:	11119
UniProt ID:	O00481
Cytogenetics:	6p22.2
Domains:	IGv, IG, SPRY, PRY
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

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., BNT3A1) 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]

Transcript Variant: This variant (1) encodes the longest isoform (a).