

## Product datasheet for **SC325808**

### BTN3A1 (NM\_194441) Human Untagged Clone

#### Product data:

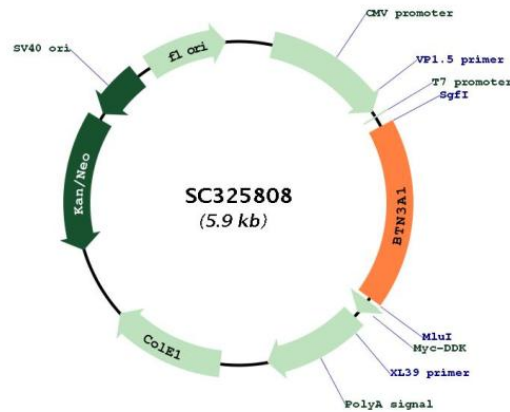
Product Type:	Expression Plasmids
Product Name:	BTN3A1 (NM_194441) Human Untagged Clone
Tag:	Tag Free
Symbol:	BTN3A1
Synonyms:	BT3.1; BTF5; BTN3.1; CD277
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325808 representing NM_194441. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAATGGCAAGTTTCTGGCCTTCCTTCTGTCTCAACTTTCGTGTCTGCCTCCTTTTGCCTCAGCTG
CTCATGCCTCACTCAGCTCAGTTTTCTGTGCTTGGACCTCTGGGCCATCCTGGCCATGGTGGGTGAA
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TCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCG
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ATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCCAACCCCAATACAGTGGAGCAACAACAAGGA
GAGAACATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGGCCTGTATGCAGTAGCAGCATCT
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AAGACAGCCAGCATTTCCATCGCAGACCCCTTCTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCA
GGGACCTGCCTGTCTTGTCTGCTTCTTGGGGAGCCGGTACTTCTGTGGCAACAGCAGGAGGAA
AAAAAGACTCAGTTCAGAAAAGAAAAGAGAGAGCAAGAGTTGAGAGAAAATGGCATGGAGCACAATGAAG
CAAGAACAAGCACAAGAGTGAAGTCTTGGAGGAAGTCAAGTGGAGAAGTATCCAGTATGCATCTCGG
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ATGAGGCTCCACTTTGTTAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_194441

**Insert Size:** 1059 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:**

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\\_194441.2](#)

**RefSeq Size:** 3728 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 11119

UniProt ID: [O00481](#)

Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

MW: 39.4 kDa

**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 (2) differs in the 5' and 3' UTRs, and uses an alternate splice site in the 3' coding region, compared to variant 1. The resulting isoform (b) has a distinct C-terminus and is shorter than isoform a.