

## Product datasheet for **SC330018**

### **BTN3A3 (NM\_001242803) Human Untagged Clone**

#### Product data:

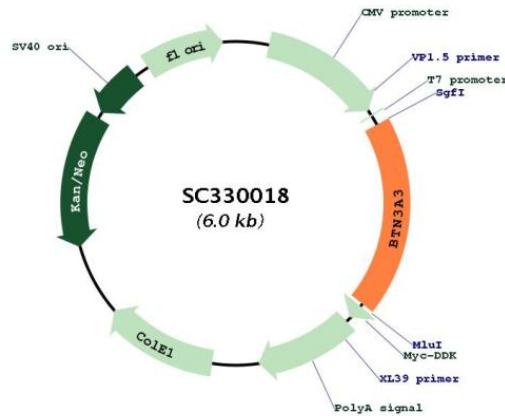
**Product Type:** Expression Plasmids  
**Product Name:** BTN3A3 (NM\_001242803) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BTN3A3  
**Synonyms:** BTF3; BTN3.3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330018 representing NM\_001242803.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTG
AGGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGG
CAGAGTGCACCGTATCGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGAAGGCTGCTCTC
CGAATACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTAC
GAAAAAGCCCTGGTGGAGCTGAAGGTTGCAGAGTGGAGGAAAATCCAGTACATGGCTCGTGGAGAGAAG
TCTTTGGCCTATCATGAATGGAAAATGGCCCTCTCAAACCTGCGGATGTGATTCTGGATCCAGACACG
GCAAACGCCATCCTCCTTGTCTGAGGACCAGAGGAGTGTGCAGCGTGTGAAGAGCCCGGGATCTG
CCAGACAACCCTGAGAGATTTGAATGGCGTTACTGTGTCCTGGCTGTGAAAACCTCACATCAGGGAGA
CATTACTGGGAGGTGGAAGTGGGGGACAGAAAAGAGTGGCATATTGGGGTATGTAGTAAGAACGTGGAG
AGGAAAAAAGGTTGGGTCAAAATGACACCGGAGAACGGATACTGGACTATGGGCCTGACTGATGGGAAT
AAGTATCGGGCTCTCACTGAGCCCAGAACCAACCTGAACTTCTGAGCCTCCTAGGAAAGTGGGGATC
TTCCTGGACTATGAGACTGGAGAGATCTCGTCTATAATGCCACAGATGGATCTCATATCTACACCTTT
CCGCACGCCTCTTTCTCTGAGCCTCTATCCTGTTTTTCAGAATTTTGACCTTGGAGCCCACTGCCCTG
ACCATTTGCCAATACCAAAAAGAAGTAGAGAGTCCCCCGATCCTGACCTAGTGCCTGATCATTCCCTG
GAGACACCACTGACCCCGGCTTAGCTAATGAAAGTGGGGAGCCTCAGGCTGAAGTAACATCTCTGCTT
CTCCCTGCCACCTGGAGCTGAGGTCTCCCCTTCTGCAACAACCAATCAGAACCATAAGCTACAGGCA
CGCACTGAAGCACTTTACTGA
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001242803

**Insert Size:** 1125 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\\_001242803.1](#)

**RefSeq Size:** 2364 bp

RefSeq ORF:	1125 bp
Locus ID:	10384
UniProt ID:	<a href="#">O00478</a>
Cytogenetics:	6p22.2
Protein Families:	Druggable Genome, Transmembrane
MW:	42.3 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., 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]

Transcript Variant: This variant (3) lacks several exons in two regions, but the open reading frame is retained, compared to variant 1. The encoded isoform (c) has a shorter N-terminus and lacks an internal segment, compared to isoform a.