

Product datasheet for RC227513L4

OriGene Technologies, Inc.

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BTN3A1 (NM_001145008) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: BTN3A1 (NM_001145008) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: BTN3A1

Synonyms: BT3.1; BTF5; BTN3.1; CD277

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

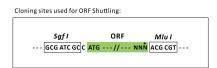
E. coli Selection: Chloramphenicol (34 ug/mL)

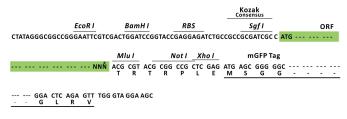
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC227513).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



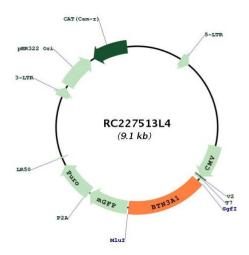


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001145008

ORF Size: 1383 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 001145008.1</u>

RefSeq ORF: 1386 bp **Locus ID:** 11119



BTN3A1 (NM_001145008) Human Tagged Lenti ORF Clone - RC227513L4

UniProt ID: <u>000481</u>

Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

MW: 51.8 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]