

Product datasheet for **RG227513**

BTN3A1 (NM_001145008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A1 (NM_001145008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTN3A1
Synonyms:	BT3.1; BTF5; BTN3.1; CD277
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227513 representing NM_001145008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAATGGCAAGTTTCTGGCCTTCTTCTGCTCAACTTTCGTGTCTGCCTCCTTTTGCTTCAGCTGC
 TCATGCCTCACTCAGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCATCCTGGCCATGGTGGTGAAGA
 CGCTGATCTGCCCTGTCACTGTCCCGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCC
 AGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCGTATC
 GAGGGAGAATTCGATTCTGCGGGATGGCCTCACTGCAGGGAAGGCTGCTCTCGAATACACAACGTAC
 AGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAAGCCCTGGTGGAG
 CTGAAGGTTGCAGACGGAGTGGCCTGTATGCAGTAGCAGCATCTGTGATCATGAGAGGCAGCTCTGGGG
 AGGGTGTATCCTGTACCATCAGAAGTCCCTCCTCGGCCCTGGAAGACAGCCAGCATTTCCATCGCAGA
 CCCCTTCTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCAGGGACCCTGCCTGTCTTGTCTGCTGCTT
 CTTGGGGGAGCCGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGTTCAGAAAAGAAAAAGA
 GAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAATGAAGCAAGAACAAAGCACAAAGAGTGAAGCTCCT
 GGAGAACTCAGATGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTCAGCCTATAATGAATGG
 AAAAAGGCCCTCTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAAACCCCATCCTCCTTGTTT
 CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAA
 TTGGCATTATTGTGTTCTCGGCTGTGAGAGCTTCATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGG
 GACAGGAAAGAGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACAC
 CTGAGAAATGGATTCTGGACTATGGGCTGACTGATGGGAATAAGTATCGGACTCTAACTGAGCCAGAAC
 CAACCTGAAACTTCTAAGCCCCCTAAGAAAGTGGGGTCTTCTGGACTATGAGACTGGAGATATCTCA
 TTCTACAATGCTGTGGATGGATCGCATATTCATACTTTCTGGACGTCTCCTTCTCTGAGGCTCTATATC
 CTGTTTTCAGAATTTTGACCTTGAGGCCACGGCCCTGACTATTTGTCCAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227513 representing NM_001145008
 Red=Cloning site Green=Tags(s)

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFVSLGPSGPILAMVGEDADLPCHLFPTMSAETMELKWVSS
 SLRQVVVYADGKEVEDRQSAPYRGRSILRDGITAGKAALRIHNVTASDSGKYLQYFDGDFYEKALVE
 LKVADGVGLYAVAASVIMRGSSGEGVSCIRSSLLGLEKTASISADPFVFRSAQRWIAALAGTLPVLLLL
 LGGAGYFLWQQEKKQFRKKKREQLREMAWSTMKQEQSTRVKLLEELRWRSIQYASRGERHSAYNEW
 KKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLDPNPERFNWHYCVLGCESFISGRHYWEVEVG
 DRKEWHIGVCSKNVQRKGWVKMTPENGFWMGLTDGNKYRTLTEPRTNLKLKPKPKKVGFLDYETGDIS
 FYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTALTICPA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001145008.2
RefSeq Size:	3278 bp
RefSeq ORF:	1386 bp
Locus ID:	11119
UniProt ID:	O00481
Cytogenetics:	6p22.2
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]