

Product datasheet for **RC231153**

BTN3A2 (NM_001197248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A2 (NM_001197248) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTN3A2
Synonyms:	BT3.2; BTF4; BTN3.2; CD277
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231153 representing NM_001197248 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAATACCAAGGGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCATCCTGGCCATGGTGGTGAAG
ACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGTAAGTTC
CAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCGTAT
CGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAACGTCA
CAGCCTCTGACAGTGGAAAGTACTTGTGTATTTCCAAGATGGTACTTCTATGAAAAAGCCCTGGTGA
GCTGAAGGTTGCAGCACTGGGTTCTAATCTTCAGTCAAGTGAAGGTTATGAGGATGGAGGGATCCAT
CTGGAGTGCAGGTCCACCGGCTGGTACCCCAACCCAAATACAGTGGAGCAACGCCAAGGGAGAGAACA
TCCCAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCTATATGAAGTAGCAGCATCTGTGATCAT
GAGAGGCGGCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATCCCTCCTCGGCCTGAAAAAGACAGCC
AGCATTTCATCGCAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCTGC
CTATCTTGCTGCTGCTTCTCGCCGGAGCCAGTTACTTCTGTGGAGACAACAGAAGGAAATAACTGCTCT
GTCCAGTGAGATAGAAAGTGAGCAAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGGAAATAAGC
CTAAGAGAGAGCCTCCAGGAGAACTCAAGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGAGTCTT
CGTCCGATACCAATAAGTCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231153 representing NM_001197248
Red=Cloning site Green=Tags(s)

MGIPRAQFVSLGPSGPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPY
 RGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGFYEKALVELKVAALGSNLHVEVKGYEDGGIH
 LECRSTGWYPQPQIQWSNAKGENIPAVEAPVADGVGLYEVAASVIMRGGSGEGVSCIIRNSLLGLEKTA
 SISIADPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQKEITALSSEIESEQEMKEMGYAATEREIS
 LRESLQEELKRKKIQYLTRGESSSDTNKSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001197248

ORF Size: 933 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: [NM_001197248.2](#)

RefSeq ORF: 936 bp

Locus ID: 11118

UniProt ID: [P78410](#)

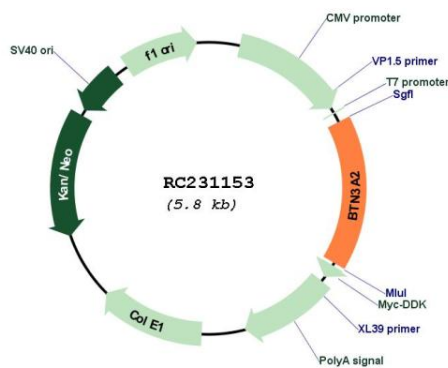
Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

MW: 34.4 kDa

Gene Summary: This gene encodes a member of the immunoglobulin superfamily, which resides in the juxta-telomeric region of the major histocompatibility class 1 locus and is clustered with the other family members on chromosome 6. The encoded protein may be involved in the adaptive immune response. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RC231153