

Product datasheet for **RG231153**

BTN3A2 (NM_001197248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A2 (NM_001197248) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BTN3A2
Synonyms:	BT3.2; BTF4; BTN3.2; CD277
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231153 representing NM_001197248 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAATACCAAGGGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCATCCTGGCCATGGTGGGTGAAG
ACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGTAAGTTC
CAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCGTAT
CGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAACGTCA
CAGCCTCTGACAGTGGAAAGTACTTGTGTATTTCCAAGATGGTACTTCTATGAAAAGCCCTGGTGG
GCTGAAGGTTGCAGCACTGGGTTCTAATCTTCAGTCAAGTGAAGGTTATGAGGATGGAGGGATCCAT
CTGGAGTGCAGGTCCACCGGCTGGTACCCCAACCCAAATACAGTGGAGCAACGCCAAGGGAGAGAACA
TCCCAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCTATATGAAGTAGCAGCATCTGTGATCAT
GAGAGGCGGCTCCGGGAGGGTGTATCCTGCATCATCAGAAATCCCTCCTCGGCCTGAAAAGACAGCC
AGCATTTCATCGCAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCTGC
CTATCTTGCTGCTGCTTCTCGCCGAGCCAGTTACTTCTGTGGAGACAACAGAAGGAAATAACTGCTCT
GTCCAGTGAGATAGAAAGTGAGCAAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGAAATAAGC
CTAAGAGAGAGCCTCCAGGAGAACTCAAGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGGAGTCTT
CGTCCGATACCAATAAGTCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231153 representing NM_001197248
Red=Cloning site Green=Tags(s)

MGIPRAQFVSLGPSGPILAMVGEDADLPCHLFPMTSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPY
 RGRTSILRDGITAGKAALRIHNVTASDSGKYLICYFDGDFYEKALVELKVAALGSNLHVEVKGYEDGGIH
 LECRSTGWYPQPQIQWSNAKGENIPAVEAPVVADGVLYEVAASVIMRGGSGEGVSCIIRNSLLGLEKTA
 SISIADPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQKEITALSSEIESEQEMKEMGYAATEREIS
 LRESLQEELKRKKIQYLTRGESSSDTNKSA

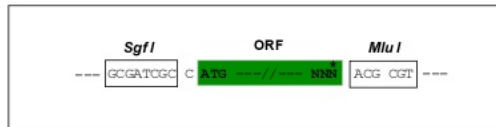
TRTRPLE - GFP Tag - V

Restriction Sites:

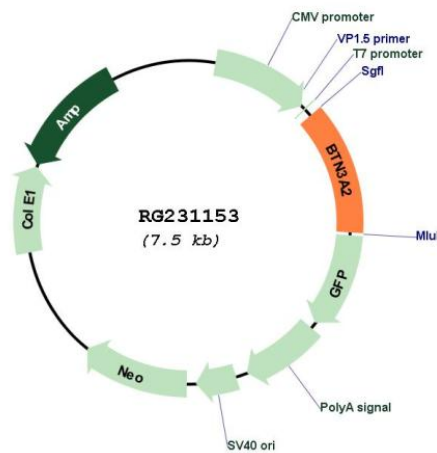
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_001197248.2
RefSeq Size:	3581 bp
RefSeq ORF:	936 bp
Locus ID:	11118
UniProt ID:	P78410
Cytogenetics:	6p22.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the immunoglobulin superfamily, which resides in the juxtatelomeric 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]