

## Product datasheet for **RG232507**

### **BTN3A2 (NM\_001197246) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A2 (NM_001197246) 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:	>RG232507 representing NM_001197246 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAATGGCAAGTTCCTGGCTTTCCTTCTGCTCAACTTTCATGTCTCCCTCCTTGGTCCAGCTGC  
TCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCATCCTGGCCATGGTGGTGAAGA  
CGCTGATCTGCCCTGTCACCTGTCCCGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGTAAAGTTCC  
AGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCGTATC  
GAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGAAGGCTGCTCTCGAATACACAACGTCAC  
AGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAGCCCTGGTGGAG  
CTGAAGGTTGCAGCACTGGGTTCTAATCTTACGTCGAAGTGAAGGTTATGAGGATGGAGGGATCCATC  
TGGAGTGCAGGTCCACCGGCTGGTACCCCAACCCCAATACAGTGGAGCAACGCCAAGGGAGAGAACAT  
CCCAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCCTATATGAAGTAGCAGCATCTGTGATCATG  
AGAGGCGGCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATTCCTCCTCGGCCGAAAGACAGCCA  
GCATTTCCATCGCAGACCCCTTCTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCCCTGCC  
TATCTTGCTGCTGCTTCTCGCCGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAAATAACTGCTCTG  
TCCAGTGAATAGAAAGTGAAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGAAATAAGCC  
TAAGAGAGAGCCTCCAGGAGAACTCAAGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGGAGTCTTC  
GTCCGATACCAATAAGTCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232507 representing NM\_001197246  
 Red=Cloning site Green=Tags(s)

MKMASSLAFLLLNFHVSLLLVLQLLTPCSAQF SVLGPSGPIAMVGEDADLPCHLFPTMSAETMELKWVSS  
 SLRQVVNYYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFQDGFYEKALVE  
 LKVAALGSNLHVEVKGYEDGGIHLCECRSTGWYQFPQIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIM  
 RGGSGEGVSCIIRNSLLGLEKTASISADPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQQKEITAL  
 SSEIESEQEMKEMGYAATEREISLRESLQEELKRKKIQYLTRGEESSD TNKSA

TRTRPLE - GFP Tag - V

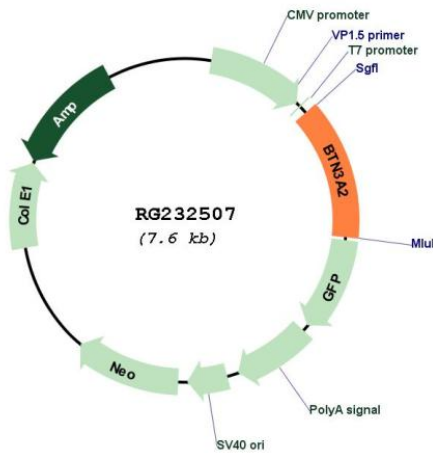
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001197246

**ORF Size:** 1002 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001197246.2</a> , <a href="#">NP_001184175.1</a>
<b>RefSeq Size:</b>	2836 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	11118
<b>UniProt ID:</b>	<a href="#">P78410</a>
<b>Cytogenetics:</b>	6p22.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	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]