

Product datasheet for **RG232597**

BTN3A3 (NM_001242803) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BTN3A3 (NM_001242803) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BTN3A3
Synonyms: BTF3; BTN3.3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232597 representing NM_001242803
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGA
GGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGAAAGGAAGTGGAAACAGGCA
GAGTGCACCGTATCGAGGGAGAATTGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGA
ATACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTACTTCTACGAAA
AAGCCCTGGTGGAGCTGAAGGTTGCAGAGTGGAGGAAAATCCAGTACATGGCTCGTGAGAGAAGTCTTT
GGCCTATCATGAATGAAAATGGCCCTCTCAAACCTGCGGATGTGATTCTGGATCCAGACACGGCAAAC
GCCATCCTCCTGTTTCTGAGGACCAGAGGAGTGTGCAGCGTGCTGAAGAGCCGCGGGATCTGCCAGACA
ACCCTGAGAGATTTGAATGGCGTACTGTGTCCTTGGCTGTGAAAACCTCACATCAGGGAGACATTACTG
GGAGGTGGAAGTGGGGACAGAAAAGAGTGGCATAATGGGGTATGTAGTAAGAACGTGGAGAGGAAAAAA
GGTTGGTCAAATGACACCGGAGAACGGATACTGGACTATGGCCTGACTGATGGGAATAAGTATCGGG
CTCTCACTGAGCCAGAACCACTGAACTTCTGAGCCTCCTAGGAAAGTGGGGATCTTCTGGACTA
TGAGACTGGAGAGATCTCGTTCTATAATGCCACAGATGGATCTCATATCTACACCTTTCCGCACGCTCT
TTCTCTGAGCCTATATCCTGTTTTTCAGAATTTTGACCTTGGAGCCCACTGCCATTGCCCCAA
TACCAAAAGAAGTAGAGAGTTCCTCCCGATCCTGACCTAGTGCCTGATCATTCCCTGGAGACACACTGAC
CCCGGGCTTAGCTAATGAAAGTGGGGAGCCTCAGGCTGAAGTAACATCTCTGCTTCTCCCTGCCACCCT
GGAGCTGAGGTCTCCCTTCTGCAACAACCAATCAGAACCATAAGCTACAGGCACGCACTGAAGCACTTT
AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232597 representing NM_001242803
 Red=Cloning site Green=Tags(s)

MVGEDADLPCHLFPTMSAETMELRWVSSSLRQVVVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALR
 IHNVTASDSGKYL CYFQDGFYEKALVELKVAEWRKIQYMARGEKSLAYHEWKMALFKPADVILDPDTAN
 AILLVSEDQRSVQRAEPRDLPDNPFEWRYCVLGCENFTSGRHYWEVEVGDREKWHIGVCSKNVERKK
 GWVKMTPENGYWTMGLTDGNKYRALTEPRTNLKLPPEPRKVGIFLDYETGEISFYNATDGSHIYTFPHAS
 FSEPLYPVFRILTLEPTALTICIPKEVESSPDPDLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAPH
 GAEVSPSATTNQNHKLQARTEALY

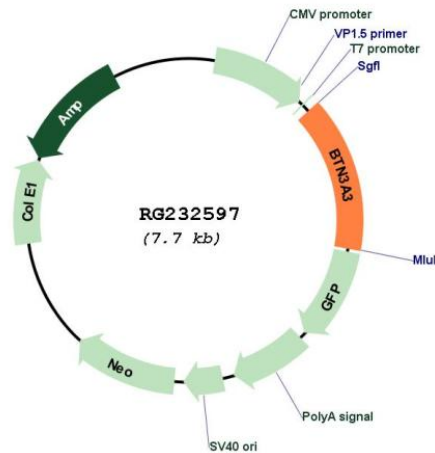
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242803

ORF Size:	1122 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_001242803.2
RefSeq Size:	2364 bp
RefSeq ORF:	1125 bp
Locus ID:	10384
UniProt ID:	O00478
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., BNT3A3) 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]