

Product datasheet for **RC202536**

BTN3A3 (NM_197974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN3A3 (NM_197974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTN3A3
Synonyms:	BTF3; BTN3.3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC202536 representing NM_197974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGA
 GGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGGAAAGACAGGCA
 GAGTGCACCGTATCGAGGGAGAAGTTCGATTCTGCGGGATGGCATTCACTGCAGGGAAAGGCTGCTCTCCGA
 ATACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTACGAAA
 AAGCCCTGGTGGAGCTGAAGGTTGCAGCATTGGGTTCTGATCTTCACATTGAAGTGAAGGTTATGAGGA
 TGGAGGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCAACCCCAAATAAAGTGGAGCGACACC
 AAGGGAGAGAACATCCCGCTGTGGAAGCACCTGTGGTTCAGATGGAGTGGCCTGTATGCAGTAGCAG
 CATCTGTGATCATGAGAGGCAGCTCTGGTGGGGTGTATCCTGCATCATCAGAAATCCCTCCTCGGCCCT
 GGAAAAGACAGCCAGCATATCCATCGCAGACCCCTTCTCAGGAGCGCCAGCCCTGGATCGCGGCCCTG
 GCAGGGACCCCTGCCTATCTCGTTGCTGTTCTCGCAGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGG
 AAAAAATTGCTCTGTCCAGGGAGACAGAAAGAGAGCGAGAGATGAAAGAAATGGGATACGCTGCAACAGA
 GCAAGAAATAAGCCTAAGAGAGTGGAGGAAAATCCAGTACATGGCTCGTGGAGAGAAGTCTTTGGCCTAT
 CATGAATGGAAAATGGCCCTCTTCAAACCTGCGGATGTGATTCTGGATCCAGACACGGCAACCGCCATCC
 TCCTTGTTTCTGAGGACCAGAGGAGTGTGCAGCGTGTGAAGAGCCGCGGGATCTGCCAGACAACCTGA
 GAGATTTGAATGGCGTTACTGTGTCCTTGGCTGTGAAACTTCACATCAGGGAGACATTACTGGGAGGTG
 GAAGTGGGGACAGAAAAGAGTGGCATATTGGGTATGTAGTAAAGACGTGGAGAGGAAAAAAGGTTGGG
 TCAAAAATGACACCGGAGAACGGATACTGGACTATGGCCTGACTGATGGGAATAAGTATCGGGCTCTCAC
 TGAGCCCAGAACCAACCTGAAACTTCTGAGCCTCCTAGGAAAGTGGGGATCTTCTCGACTATGAGACT
 GGAGAGATCTCGTTCTATAATGCCACAGATGGATCTCATATCTACACCTTTCCGCACGCCTCTTTCTCTG
 AGCCTCTATATCCTGTTTTCAGAATTTTGACCTTGGAGCCACTGCCCTGACCATTTGCCAATACCAAAA
 AGAAGTAGAGAGTTCCCCGATCCTGACCTAGTGCCTGATCATTCCCTGGAGACACCCTGACCCCGGGC
 TTAGCTAATGAAAGTGGGAGCCTCAGGCTGAAGTAAACATCTCTGCTTCTCCTGCCACCCTGGAGCTG
 AGGTCTCCCTTCTGCAACAACCAATCAGAACCATAAGCTACAGGCACGCACTGAAGCACTTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202536 representing NM_197974
 Red=Cloning site Green=Tags(s)

MVGEDADLPCHLPTMSAETMELRWVSSSLRQVVNVYADGKEVEDRQSAPYRGRSILRDGITAGKAALR
 IHNVTASDSGKYL CYFQDGFYEKALVELKVAALGSDLHIEVKGYEDGGIHLECRSTGWYPQPQIKWSDT
 KGENIPAVEAPVVADGVLYAVAASVIMRGSSGGGVSCIIRNSLLGLEKTASISIAADPFFRSAQPWIAAL
 AGTLPISLLLLAGASYFLWRQQKEKIALSRETEREREMKEMGYAATEQEISLREWRKIQYMARGEKSLAY
 HEWKMALFKPADVILDPDTANAILLVSEDQRSVQRAEPRDLPDNPERFEWRYCVLGCENFTSGRHYWEV
 EVGDRKEWHIGVCSKNVERKKGWYKMTPENGYWTMGLTDGNKYRALTEPRTNLKLEPPPRKVGIFLDYET
 GEISFYNATDGSIIYTFPHASFSEPLYPVFRILTLEPTALTICPIKVEVSSPDPDLVDPHSLLETPLTPG
 LANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHLQARTEALY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_197974
ORF Size:	1605 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_197974.3
RefSeq Size:	2927 bp
RefSeq ORF:	1608 bp
Locus ID:	10384
UniProt ID:	O00478
Cytogenetics:	6p22.2
Protein Families:	Druggable Genome, Transmembrane
MW:	59.7 kDa
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]