

Product datasheet for **RC228303**

BTNL8 (NM_001159709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTNL8 (NM_001159709) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTNL8
Synonyms:	BTN9.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228303 representing NM_001159709 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGACATGGTTTGTCAAATCACTGGGCTCAGTTCCTCTCATTCCATCACGGGATATGTTGATAGAG
ACATCCAGCTACTCTGTCACTCGGGCTGGTCCCCCGGCCACAGCGAAGTGGAAAGGTCCACAAGG
ACAGGATTTGTCCACAGACTCCAGGACAAACAGAGACATGCATGGCCTGTTGATGTGGAGATCTCTCG
ACCGTCCAAGAGAACGCCGGGAGCATATCTGTTCCATGCGGCATGCTCATCTGAGCCGAGAGGTGGAAT
CCAGGGTACAGATAGGAGATACCTTTTTCGAGCCTATATCGTGGCACCTGGCTACCAAAGTACTGGGAAT
ACTCTGCTGTGGCCTATTTTTGGCATTGTTGGACTGAAGATTTCTTCTCCAAATTCAGTGGAAAATC
CAGGCGGAACTGGACTGGAGAAGAAAGCACGGACAGGCAGAATTGAGAGACGCCCGAAACACGCAGTGG
AGGTGACTCTGGATCCAGAGACGGCTCACCCGAAGCTCTGCGTTTCTGATCTGAAAATGTAACCCATAG
AAAAGTCCCCAGGAGGTGCCTCACTCTGAGAAGAGATTACAAGGAAGAGTGTGGTGGCTTCTCAGAGT
TTCCAAGCAGGGAACATTACTGGGAGGTGGACGGAGGACACAATAAAAGGTGGCGGTGGGAGTGTGCC
GGGATGATGTGGACAGGAGGAAGGAGTACGTGACTTTGTCTCCCGATCATGGGTACTGGTCCCTCAGACT
GAATGGAGAACATTTGTATTTACATTAATCCCCGTTTTATCAGCGTCTTCCCCAGACCCACCTACA
AAAATAGGGGTCTTCTGGACTATGAGTGTGGACCATCTCCTTCTTCAACATAAATGACCAGTCCCTTA
TTTATACCCTGACATGTCGGTTTGAAGGCTTATTGAGGCCCTACATTGAGTATCCGTCTATAATGAGCA
AAATGAACTCCCATAGTCATCTGCCAGTCACCCAGGAATCAGAAAGAGGCCTTTGGCAAAGGGCC
TCTGCAATCCCAGAGACAAGCAACAGTGAAGTCTCCTCACAGGCAACCACGCCCTTCTCCCCAGGGGTG
AAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228303 representing NM_001159709
Red=Cloning site Green=Tags(s)

MWTWFKSLGSVPLISITGYVDRDIQLLCQSSGWFFRPTAKWKGPQGQDLSTDSRTNRDMHGLFDVEISL
 TVQENAGSISCSMRHAHLSREVESRVQIGDTFFEPISWHLATKVLGILCCGLFFGIVGLKIFFSKFQWKI
 QAELDWRKKGQAEIRDARKHAVEVTLDPETAHPKLCVSDLKTVTHRKAQVEVPHSEKRFTRKSVVASQS
 FQAGKHYWEVDGGHNKRWRVGVCRDDVDRRKEYVTLSPDHGYWVLRNLNGEHL YFTLNPRFISVFPRTPT
 KIGVFLDYECGTISFFNINDQSLIYTLTCRFEGLLRPYIEYPSYNEQNGTPIVICPVTQESEKEASWQRA
 SAIPETSNSSESSQATTPFLPRGEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8055_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159709

ORF Size: 1125 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_001159709.1](#), [NP_001153181.1](#)

RefSeq ORF: 1128 bp

Locus ID: 79908

UniProt ID: [Q6UX41](#)

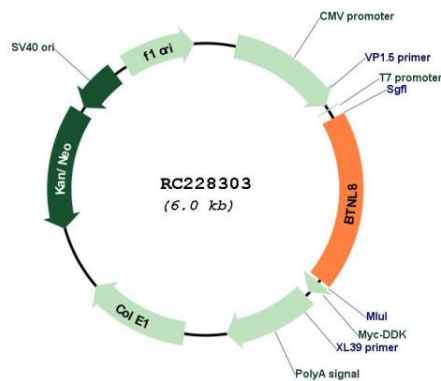
Cytogenetics: 5q35.3

Protein Families: Druggable Genome, Transmembrane

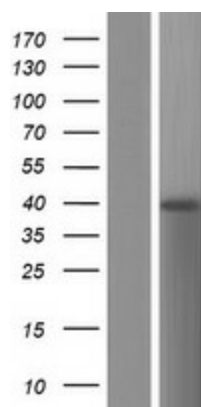
MW: 42.8 kDa

Gene Summary: May stimulate primary immune response. Acts on T-cell stimulated sub-optimally through the TCR/CD3 complex stimulating their proliferation and cytokine production.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228303



Western blot validation of overexpression lysate (Cat# [LY431331]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228303 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).