

Product datasheet for **RC214359**

BTNL2 (NM_019602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTNL2 (NM_019602) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTNL2
Synonyms:	BTL-II; BTN7; HSBLMHC1; SS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214359 representing NM_019602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGATTTCCAGGCTACAATCTGTCTGGTGCAGTCGCCTCCTTCTATTATCCTGCTGACAAATGA
 AGCAGTCAGAAGACTTTAGAGTCATTGGCCCTGCTCATCTATCCTGGCCGGGGTTGGGGAAGATGCCCT
 GTTAACCTGCCAGCTACTCCCAAGAGGACCACAAATGCACGTGGAGGTGAGGTGGTACCGCTCAGAGCCC
 AGCACACCTGTGTTGTGCACAGGGATGGAGTGGAGGTGACTGAGATGCAGATGGAGGAGTACAGAGGCT
 GGGTAGAGTGGATAGAGAATGGCATTGCAAAGGGAAATGTGGCACTGAAGATACACAACATCCAGCCCTC
 CGACAATGGACAATACTGGTGCCATTTCCAGGATGGGAACTACTGTGGAGAAACAAGCTTGTCTCAA
 GTAGCAGTCTGGGGTCTGCCCTAGCATCCACATGGAGGGACCTGGGGAGAGTGGAGTCCAGCTTGTGT
 GCACTGCAAGGGGCTGGTCCCAGAGCCCCAGGTGATTGGGAAGACATCCGGGGAGAGAAGCTGCTGGC
 CGTGTCTGAGCATCGCATCCAAGATAAAGATGGCCTGTTCTATGCGGAAGCCACCCTGGTGGTCAAGAA
 GCCTCTGCAGAGTCTGTGCTGCTGGTCCACAACCCCGTCTCACTGAGGAGAAGGGGTCCGGTCACTCA
 GCCTCCAGAGAACTCCAGACTGAGCTGGCTTCTTTAAAAGTGAATGGACCTTCCAGCCCATCTCGT
 CAGAGTGGGAGAAGATATACAGCTAACCTGTTACCTGTCCCCAAGGCGAATGCACAGAGCATGGAGGTG
 AGGTGGGACCGATCCCACCGTTACCCTGCTGTGCATGTGTATATGGATGGGGACCATGTGGCTGGAGAGC
 AGATGGCAGAGTACAGAGGGAGGACTGTACTGGTGAAGTACGCCATTGACGAGGGCAGACTGACCCTGCA
 GATACTCAGTCCAGACCTTCGGACGACGGGCAGTACCCTGCCTTTTGGAAAAGATGATGTCTACCAG
 GAGGCCAGTTGGATCTGAAGGTGGTAAGTCTGGGTCTTCCCCTGATCACTGTGGAGGGGCAAGAAG
 ATGGAGAAATGCAGCCGATGTGCTCTTCAGATGGGTGGTCCCACAGCCCCACGTGCCATGGAGGACAT
 GGAAGGAAAGACGATACCATCATCTTCCAGCCCTGACTCAAGGCAGCCACGGGCTGTTCCACGTGCAG
 ACATTGCTAAGGGTCAAAACATCTCCGCTGTGGACGTCCTTGTCCATCAGCATCCCCTTTTGGGCG
 AGGAGAAAATCGCAACTTTTCTCTCTCAGTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214359 representing NM_019602
 Red=Cloning site Green=Tags(s)

MVDFPGYNLSGAVASFLFILLTMKQSEDFRVIQPAHPILAGVGEDALLTCQLLPKRRTTMHVEVRWYRSEP
 STPVFVHRDGEVTEMQMEEYRGWVWEIENGIKGNVALKIHNIPSDNGQYWCHFQDGNYCGETSLLLK
 VAGLGSAPSIHMEGPGESGVQLVCTARGWFPEPQVYWEDIRGEKLLAVSEHRIQDKDGLFYAEATLVVRN
 ASAESVSLVHNPVLTTEKGSVISLPEKLQTELASLKVNGPSQPILVRVGEDIQLTCYLSPKANAQSMVEV
 RWDRSHRYPAVHVYMDGDHVAGEQMAEYRGRVTVLVSDAIDEGRLLQILSARPSDDGQYRCLFEKDDVYQ
 EASLDLKVVSLSGSSPLITVEGQEDGEMQPMCSSDGWFPQPHVPWRDMEGKTIPTSSSQALTQSGHGLFHVQ
 TLLRVTNISAVDVTCSISIPFLGEEKIATFSLSGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3559_a01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019602

ORF Size: 1365 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

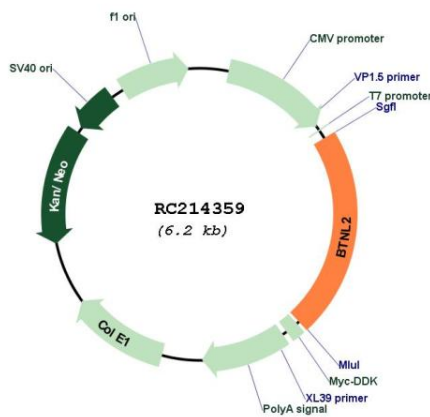
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_019602.1, NP_062548.1](#)
RefSeq Size: 1368 bp
RefSeq ORF: 1368 bp
Locus ID: 56244
Cytogenetics: 6p21.32
Protein Families: Druggable Genome, Secreted Protein
MW: 50.3 kDa

Gene Summary: This gene encodes a major histocompatibility complex, class II associated, type I transmembrane protein which belongs to the butyrophilin-like B7 family of immunoregulators. It is thought to be involved in immune surveillance, serving as a negative T-cell regulator by decreasing T-cell proliferation and cytokine release. The encoded protein contains an N-terminal signal peptide, two pairs of immunoglobulin-like domains, separated by a heptad peptide sequence, and a C-terminal transmembrane domain. Naturally occurring mutations in this gene are associated with sarcoidosis, rheumatoid arthritis, ulcerative colitis, inflammatory bowel disease, myositis, type 1 diabetes, systemic lupus erythematosus, acute coronary syndrome, and prostate cancer. [provided by RefSeq, May 2017]

Product images:



Circular map for RC214359