

## Product datasheet for **RC202488**

### **BLNK (NM\_013314) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BLNK (NM_013314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BLNK
Synonyms:	AGM4; BASH; bca; BLNK-S; LY57; SLP-65; SLP65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC202488 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAAGCTTAATAAAATAACCGTCCCCGCCAGTCAGAAGTTGAGGCAGCTTCAAAGATGGTCCATG  
 ATATTA AAAACAATGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGT  
 TCCTCGAAGGGACTACGCTTCAGAGAGCCCTGCTGACGAAGAGCAGCAGTGGTCCGATGACTTTGACAGC  
 GACTATGAAAATCCAGATGAGCACTCGGACTCAGAGATGTACGTGATGCCCGCCGAGGAGAACGCTGATG  
 ACAGCTACGAGCCGCTCCAGTAGAGCAGGAAACCAGGCCGTTACCCAGCCCTGCCCTTCGCCAGAGG  
 CGAGTATATAGACAATCGATCAAGCCAGAGGCATTCCCCACCCTTCAGCAAGACACTTCCAGTAAGCCC  
 AGCTGGCCTTCAGAGAAAGCAAGGCTCACCTCCACCCTGCCGGCCCTGACTGCTTGCAGAAACCTCAAG  
 TCCCACCCAAACCCAAAGGCTCCTTGAGGATGAGGCTGATTATGTGGTCCCGTGAAGATAATGATGA  
 AAATAATATCCACAGAAAGCAGTTCACCTCCACCCTGAAAAGCTCCCATGGTGAATAGATCAACC  
 AAGCCAAATTCCTCAACGCCCGCTCTCCTCCAGGAACAGCTTCAGGTGCAAAACAGTGGGCCTGGGAAA  
 CCAAGTCACTCCACCAGCTGCACCATCCCCGTTGCCACGGCCGGGAAAAAACACGACACCACTGAA  
 GACAACTCCAGTTGCCTCTCAACAGAATGCTTCAAGTGTGTGAAGAAAAACCTATACCTGCTGAACGC  
 CACCGAGGGTCAAGTCACAGACAAGAAGCTGTGCAGTACCAGTGTTCCTCCTGCCAGAAACAAATCC  
 ACCAAAAACCCATACCTTGCCAAGATTCAGAAAGGGGAAACCAACTGTGGATGGGCCCTACCCAG  
 CTTTTCATCTAATTCCTATTTTCAAGACAGGAAGCTGGCGTTCTGCAAGCCATGGTATGCTGGAGCC  
 TGTGATCGAAAGTCTGCTGAAGAGGCATTGCACAGATCAAACAAGGATGGATCATTTCTTATTCGGAAAA  
 GCTCTGGCCATGATTCAAAACAACCATATACACTAGTTGATTCTTTAATAAGCGAGTATATAATTTCC  
 TGTGCGATTTATTGAAGCAACAAAACAATATGCCTTGGGCAGAAAGAAAAATGGTGAAGAGTACTTTGGA  
 AGTGTGCTGAAATCATCAGGAATCATCAACATAGTCCTTTGGTCTTATTGACAGTCAGAATAACACAA  
 AAGATTCCACCAGACTGAAGTATGCAGTTAAAGTTTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202488 protein sequence  
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRLQKQMVHDIKNEGGIMNKIKKLVKAPPSVPRRDYASESPADEEQWSDDFDS  
 DYENPDEHSDSEMYVMPAEENADDSYEPPEVEQETRPVHPALPFARGEYIDNRSSQRHSPPFKTLPSKP  
 SWPSEKARLTSTLPALTALQKPQVPPKPKGLLEADYVVPVEDNDENYIHPTSSPPPEKAPMVNRST  
 KPNSSTPASPPGTASGRNSGAWETKSPPPAAPSPPLPRAGKPTTLPKTTTPVASQQNASSVCEEKIPAER  
 HRGSSHRQEAQVSPVFPFAQKQIHQKPIPLPRFTEGPNPTVDGLPSFSSNSTISEQEAGVLCRKYAGA  
 CDRKSAEEALHRSNKDGSFLIRKSSGHDSKQPYTLVVFNFNKRNYIPVRFIEATKQYALGRKKNGEEYFG  
 SVAEIIIRNHQSPLVLIDSQNTKDSTRLKYAVKVS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6153\\_f07.zip](https://cdn.origene.com/chromatograms/mk6153_f07.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_013314

**ORF Size:** 1368 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\\_013314.4](#)

**RefSeq Size:** 1829 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 29760

**UniProt ID:** [Q8WV28](#)

**Cytogenetics:** 10q24.1

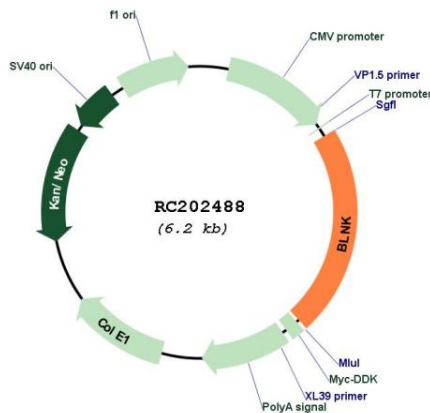
**Protein Families:** Druggable Genome

**Protein Pathways:** B cell receptor signaling pathway, Primary immunodeficiency

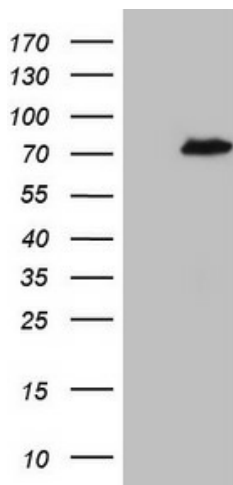
**MW:** 50.5 kDa

**Gene Summary:** This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012]

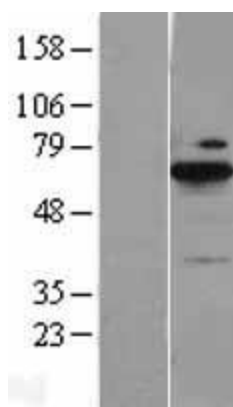
**Product images:**



Circular map for RC202488



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BLNK (Cat# RC202488, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BLNK (Cat# [TA808517])(1:2000). Positive lysates [LY402244] (100ug) and [LC402244] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402244]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202488 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).