

Product datasheet for **RC225711**

BLNK (NM_001114094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLNK (NM_001114094) 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:

>RC225711 representing NM_001114094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACAAGCTTAATAAAATAACCGTCCCCGCCAGTCAGAAGTTGAGGCAGCTTCAAAGATGGTCCATG
 ATATTA AAAACAATGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGT
 TCCTCGAAGGGACTACGCTTCAGAGAGCCCTGCTGACGAAGAGGAGCAGTGGTCCGATGACTTTGACAGC
 GACTATGAAAATCCAGATGAGCACTCGGACTCAGAGATGTACGTGATGCCCGCCGAGGAGAACGCTGATG
 ACAGCTACGAGCCGCTCCAGTAGAGCAGGAAACCAGGCCGTTACCCAGCCCTGCCCTTCGCCAGAGG
 CGAGTATATAGACAATCGATCAAGCCAGAGGCATTCCCCACCCTTCAGCAAGACACTTCCCAGTAAGCCC
 AGCTGGCCTTCAGAGAAAGCAAGGCTCACCTCCACCCTGCCGGCCCTGACTGCTTTGCAGAAACCTCAAG
 TCCCACCCAAACCCAAAGGCTCCTTGAGGATGAGGCTGATTATGTGGTCCCGTGAAGATAATGATGA
 AAATAATATCCACAGAAAGCAGTTCACCTCCACCCTGAAAAGGTGAAAACAGTGGGGCTGGGAA
 ACCAAGTCACCTCCACCAGCTGCACCATCCCCGTTGCCACGGGCCGGAAAAACCAACGACACCACTGA
 AGACAACCTCCAGTTGCCTCTCAACAGAATGCTTCAAGTGTGTAAGAAAAACCTATACCTGCTGAACG
 CCACCGAGGGTCAAGTCACAGACAAGAAGCTGTGCAAGTACCAGTGTTCCTCCTGCCAGAAAACAATC
 CACCAAAAACCCATACCTCTGCCAAGATTTACAGAAGGGGAAACCAACTGTGGATGGGCCCTACCCA
 GCTTTTCATCTAATCCACTATTTACAGAACAGGAAGCTGGCGTCTCTGCAAGCCATGGTATGCTGGAGC
 CTGTGATCGAAAGTCTGCTGAAGAGGCATTGCACAGATCAAACAAGGATGGATCATTCTTATTCGGAAA
 AGCTCTGGCCATGATCCAAACAACCATATACACTAGTTGTATTCTTTAATAAGCGAGTATATAATTC
 CTGTGCGATTTATTGAAGCAACAAAACAATATGCCTTGGCAGAAAAGAAAAATGGTGAAGAGTACTTTGG
 AAGTGTGCTGAAATCATCAGGAATCATCAACATAGTCCTTTGGTCTTATTGACAGTCAGAATAACACA
 AAAGATCCACCAGACTGAAGTATGCAGTTAAAGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225711 representing NM_001114094
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRQLQKQMVHDIKNNEGGIMNKIKKLVKAPPSVPRRDYASESPADEEEQWSDDFDS
 DYENPDEHSDSEMYVMPAEENADDSYEPPEVEQETRPVHPALPFARGEYIDNRSSQRHSPPFKTLPSKP
 SWPSEKARLTSTLPAL TALQKQVPPKPKGLLEDEADYVVPVEDNDENYIHPTSSPPPEKGRNSGAW
 TKSPPPAAPSPLPRAGKKPTTLPKTPVASQQNASSVCEEKPIPAERHRGSSHRQEAQVSPVFPQAQKQI
 HQKPIPLPRFTEGGNPTVDGPLPSFSSNSTISEQEAGVLCKPWYAGACDRKSAEALHRSNKDGSFLIRK
 SSGHDSKQPYTLVVF FNKRYYNIPVRF IEATKQYALGRKKNGEYFGSVAEII RNHQHSPLV LIDSNNT
 KDSTRLYAVKVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_f06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001114094

ORF Size: 1299 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.

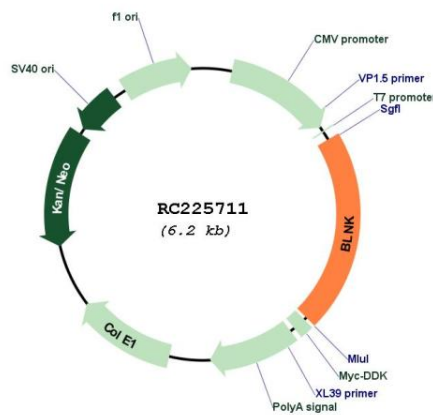
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

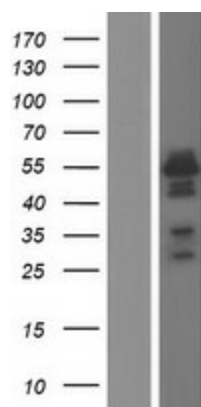
RefSeq: [NM_001114094.1](#), [NP_001107566.1](#)

RefSeq ORF:	1302 bp
Locus ID:	29760
UniProt ID:	Q8WV28
Cytogenetics:	10q24.1
Protein Families:	Druggable Genome
Protein Pathways:	B cell receptor signaling pathway, Primary immunodeficiency
MW:	48 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 RC225711



Western blot validation of overexpression lysate (Cat# [LY426448]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225711 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).