

Product datasheet for **RR201899**

Blnk (NM_001025767) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Blnk (NM_001025767) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Blnk
Synonyms:	MGC112831
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR201899 representing NM_001025767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAACGAATAAAATAACTGTCCCTGCCAGTCAGAAGCTGAGACAGCTTCAGAAGATGGTCCACG
 ATATTAAGAACAATGAAGGTGGAATAATGGACAAGATAAAGAAGCTAAAAGTCAAAGGACCTCCAAGTGT
 TCCTCGAAGGGACTATGCATTAGACAACCCCGCGACGAAGAGGAGCAATGGTCAGATGACTTTGACAGC
 GACTATGAAAATCCAGATGAACATTCGGACTCCGAGATGTATGTGATGCCCGCAGAGGAGACGGGGGACG
 ATTCTATGAGCCGCTCCCGCTGAGCAGCAGACCGGGTGGTCCATCCAGCCCTGCCCTTCACGAGGGG
 CGAGTATGTAGATAATCGATCCAGCCAGCGGCACTCTCCACCCTCAGCAAGACACTTCTAGTAAGCCC
 AGCTGGCCTTCAGCGAAAGCAAGGCTGGCCTCCACTCTGCCAGCCCCAACTCTCTACAGAAGCCTCAAG
 TCCCCCAAGCCAAAGACCTCTTGAGGATGAGGCTGATTATGTGGTCCCTGTGGAGGATAACGATGA
 AAATAATATCCATCCCAGAGAAAGCAGCCCGCTGCTGCTGAGAAAGCTCCACGGTGAATAGATCAACC
 AAACCAAACAGCTCCTCAAAGCATGTGTCCCTCCAGGGACTGTGCGAGGTCGAAACAGTGGGGTCTGGG
 ACTCCAAGTCATCTTTGCCTGCTGCACCATCCCCACTGCCACGAGCTGGGAAGAAAACAGCTACACCACT
 TAAGACGACTCCCGTTCCCTTCCCTACAGAACGCATCAAATGTTTGTGAAGAAAAGCCTGTTCTGCTGAG
 CGCCACCAGGGTCTAGTCACAGACAAGACACTGTACAGTACCAGTGTTCCTCCCACCCAGAAACCTG
 TCCTTCAAAGCCTGTACCCCTGCCAAGGTTACAGAAGGGGGAAGCCAGCTGCAGACGGACCGGTACC
 TAGCTTCCCATTAATTCTACTTTTGCAGACCAGGAGGCTGAAGTGCACGGTAAGCCCTGGTACGCTGGC
 GCCTGCGACCGCAAGTCTGCTGAAGAGGCTTGCACCGATCCAACAAGGATGGATCATTTCTTATTCGGA
 AAAGCTCCGGCCACGATTCTAAGCAGCCGTACACACTAGTTGCGTCTTTAACAAGCGTATATAATAT
 CCCTGTGCGGTTTCATCGAAGCAACCAACAATATGCTTTGGGAAAGAAGAAAATGGCGAAGAGTACTTT
 GGAAGCGTTGTGAGATCATCAAGAATACCAGACAACCCCTGGTTCTTATTGACAGTCAGAATAACA
 CAAAAGACTCCACGAGACTGAAATACGCGTGAAGGTTTCAAAAAGACTCCACGAGACTGAAATACGCC
 GTGAAGGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201899 representing NM_001025767
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRQLQKQMVHDIKNNEGGIMDKIKKLVKVPSPVPRRDYALDNPADDEEQWSDDFDS
 DYENPDEHSDSEMYVMPAEETGDSSYEPPEAEQTRVVHPALPFTRGEYVDRSSQRHSPF SKTLPSKP
 SWPSAKARLASTLPAPNSLQKPQVPPKPKDLLEDEADYVVPVEDNDENYIHPRESSPLPAEKAPT VNRST
 KPNSSSKHVSPPGTVAGRNSGVWDSKSSLPAAPSPLPRAGKKTATPLKTPVPSLQNASNVCEEKPVPAE
 RHRGSSHRQDTVQSPVFPPTQKPVLPVPLPRFTEGGSPAADGPVPSFPFNSTFADQEALHGKWPYAG
 ACDRKSAAEEALHRSNKDGSFLIRKSSGHDSKQPYTLVAFFNKRNYNIPVRFIEATKQYALGKKKNGEYF
 GSVVEI IKNHQHNPLVLIDSQNTK DSTR LKYAVKVSQKTPRD*NTP*RF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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 Size:	1765 bp
RefSeq ORF:	1374 bp
Locus ID:	499356
UniProt ID:	Q4KM52
Cytogenetics:	1q54
MW:	50.6 kDa
Gene Summary:	Functions as a central linker protein, downstream of the B-cell receptor (BCR), bridging the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidyl-inositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition. May play an important role in BCR-induced B-cell apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]