

Product datasheet for **MR207297**

Blnk (NM_008528) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Blnk (NM_008528) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Blnk
Synonyms:	BASH; Bca; Ly-57; Ly57; Lyw-57; SLP-65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207297 representing NM_008528
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGCTGAATAAGATAACTGTCCCTGCCAGCCAGAAGCTGAGACAGCTTCAAAGATGGTCCATG
 ATATTAAGAACAATGAAGGTGGAATAATGGACAAGATAAAAAAGCTAAAAGTCAAAGGCCCTCCAAGTGT
 TCCTCGAAGGGACTACGCATTAGACAGCCCTGCAGATGAAGAGGAGCAGTGGTCAGATGACTTCCGACAGT
 GACTATGAAAATCCAGATGAACATTCGGACTCCGAGATGTATGTGATGCCTGCCGAGGAGACGGGCGACG
 ATTCCTATGAACCGCTCCCGCTGAGCAGCAGACCGGGTGGTCCATCCAGCCCTGCCCTTACGAGGGG
 CGAGTATGTAGATAATCGATCCAGCCAGCGGCACTCTCCGCCCTCAGCAAGACACTTCCAGTAAGCCC
 AGCTGGCCTTCAGCGAAAGCGAGGCTGGCCTCCACTCTGCCAGCCCCAACTCTCTACAGAAGCCTCAAG
 TCCCCCAAGCCAAAGACCTCTTGAGGATGAGGCTGATTATGTGGTCCCTGTGGAAGATAACGATGA
 AAATAATATCCATCCAGAGAAAGCAGCCCGCCCTGCTGAGAAGGCTCCCATGGTGAATAGATCAACC
 AAGCCAAACAGTTCCTCAAAGCAGATGTGCCTCCAGGGACTGTGCGAGGTCGAAACAGTGGGGTCTGGG
 ACTCCAAGTCATCTTTGCCTGCCGACCATCCCCACTACCACGGGCTGGGAAGAAGCCAGCTACACCACT
 TAAGACTACTCCCGTTCCTCCCTACCGAATGCATCAAATGTTTGTGAAGAAAAGCCTGTTCTGCTGAG
 CGCCACCAGGGTCTAGTCACAGACAAGACACTGTACAGTACCAGTGTTCCTCCCACCCAGAAACCTG
 TCCATCAAAGCCTGTACCCTTGCCAAGGTTCCAGAAGCGGGGAGCCAGCTGCAGATGGACCGTTCCA
 CAGCTTCCCATTAATTCGACGTTTGCAGACCAGGAGGCTGAAGTGTGCGTAAGCCCTGGTATGCTGGC
 GCCTGTGACCGCAAGTCTGCTGAAGAGGCTTGCACAGATCCAACAAGGATGGATCGTTTCTTATTCGGA
 AGAGCTTGCCCATGATTCCAAGCAGCCGTACACCCTAGTTGCGTCTTTAACAAAGCGAGTATAATAT
 TCCTGTACGGTTTATTGAAGCAACCAACAGTATGCTTTGGGAAAGAAGAAAAATGGTGAAGAGTACTTC
 GGAAGTGTGTGAAATCGTCAACAGTACCAGCACAACCCCTGGTTCTTATTGACAGTCAGAATAACA
 CGAAAGATTCCACGAGACTGAAATATGCTGTGAAGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207297 representing NM_008528
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRQLQKQMVHDIKNEGGIMDKIKKLVKPPSVPRRDYALDSPADEEEQWSDDFDS
 DYENPDEHSDSEMYVMPAEETGDDSYEPPEAQTRVHPALPFTRGEYVDRSSQRHSPPFKTLPSKP
 SWPSAKARLASTLPAPNSLQKPQVPPKPKDLLEADYVVPVEDNDENYIHPRESSPPPAEKAPMVNRST
 KPNSSSHMSPPGTVAGRNSGVWDSKSSLPAAPSPLPRAGKKPATPLKTTVPVPLPNASNVCEEKVPVPAE
 RHRGSSHRQDTVQSPVFPPTQKPVHQKPVPLPRFPEAGSPAADGPFHSFNFNSTFADQEAELLGKPWYAG
 ACDRKSAAEEALHRSNKDGSFLIRKSSGHDSKQPYTLVAFFNKRVYNIIPVRFIEATKQYALGKKKNGEYF
 GSVVEIVNSHQHNPLVLIDSNNTKIDSTRKLYAVKVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9043_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008528

ORF Size: 1371 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_008528.5](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1374 bp

Locus ID: 17060

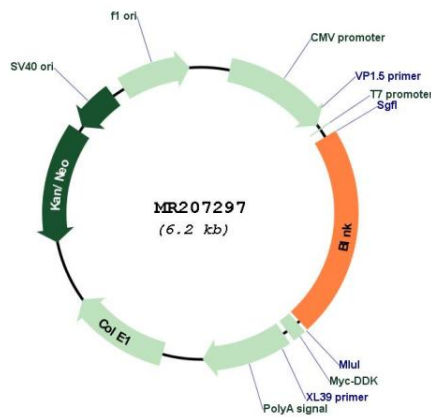
UniProt ID: [Q9QUN3](#)

Cytogenetics: 19 34.26 cM

MW: 51.1 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 phosphatidylinositol 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207297