

## Product datasheet for **RN201899**

### **Blnk (NM\_001025767) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN201899 representing NM\_001025767  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAACGAATAAAATAACTGTCCCTGCCAGTCAGAAGCTGAGACAGCTTCAGAAGATGGTCCACG  
 ATATTAAGAACAATGAAGGTGGAATAATGGACAAGATAAAGAAGCTAAAAGTCAAAGGACCTCCAAGTGT  
 TCCTCGAAGGGACTATGCATTAGACAACCCCGCGACGAAGAGGAGCAATGGTCAGATGACTTTGACAGC  
 GACTATGAAAATCCAGATGAACATTCGGACTCCGAGATGTATGTGATGCCCGCAGAGGAGACGGGGGACG  
 ATTCTATGAGCCGCTCCCGCTGAGCAGCAGACCGGGTGGTCCATCCAGCCCTGCCCTTCACGAGGGG  
 CGAGTATGTAGATAATCGATCCAGCCAGCGGCACTCTCCACCCTCAGCAAGACACTTCTAGTAAGCCC  
 AGCTGGCCTTCAGCGAAAGCAAGGCTGGCCTCCACTCTGCCAGCCCCAACTCTCTACAGAAGCCTCAAG  
 TCCCCCAAGCCAAAGACCTCTTGAGGATGAGGCTGATTATGTGGTCCCTGTGGAGGATAACGATGA  
 AAATAATATCCATCCCAGAGAAAGCAGCCCGCTGCCTGCTGAGAAAGCTCCACGGTGAATAGATCAACC  
 AAACCAAACAGCTCCTCAAAGCATGTGTCCCTCCAGGGACTGTCGCAGGTGCAAAACAGTGGGGTCTGGG  
 ACTCCAAGTCATCTTTGCCTGCTGCACCATCCCCACTGCCACGAGCTGGGAAGAAAACAGCTACACCACT  
 TAAGACGACTCCCGTTCCCTCCCTACAGAACGCATCAAATGTTTGTGAAGAAAAGCCTGTTCTGCTGAG  
 CGCCACCAGGGTCTAGTCACAGACAAGACACTGTACAGTACCAGTGTTCCTCCCACCCAGAAACCTG  
 TCCTTCAAAGCCTGTACCCCTGCCAAGGTTACAGAAAGGGGAAGCCAGCTGCAGACGGACCGGTACC  
 TAGCTTCCCATTAATTCTACTTTGACAGACCAGGAGGCTGAAGTGCACGGTAAGCCCTGGTACGCTGGC  
 GCCTGCGACCGCAAGTCTGCTGAAGAGGCTTGCACCGATCCAACAAGGATGGATCATTTCTTATTCGGA  
 AAAGTCCGGCCACGATTCTAAGCAGCCGTACACACTAGTTGCGTCTTTAACAAGCGTGTATATAATAT  
 CCCTGTGCGGTTTCATCGAAGCAACCAACAATATGCTTTGGGAAAGAAGAAAATGGCGAAGAGTACTTT  
 GGAAGCGTTGTGAGATCATCAAGAATACCAGCACAACCCCTGTTCTTATTGACAGTCAGAATAACA  
 CAAAAGACTCCACGAGACTGAAATACGCCGTGAAGTTTCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001025767

**Insert Size:** 1374 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001025767.1](#), [NP\\_001020938.1](#)

RefSeq Size: 1765 bp

RefSeq ORF: 1374 bp

Locus ID: 499356

UniProt ID: [Q4KM52](#)

Cytogenetics: 1q54

**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 (By similarity).[UniProtKB/Swiss-Prot Function]