

## Product datasheet for MC204614

### Blnk (NM\_008528) Mouse Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Blnk (NM_008528) Mouse Untagged Clone  |
| Tag:                      | Tag Free                               |
| Symbol:                   | Blnk                                   |
| Synonyms:                 | BASH; Bca; Ly-57; Ly57; Lyw-57; SLP-65 |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |
| Fully Sequenced ORF:      | >BC059785                              |

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AGTGGCTTGAGTTCCTTGAGGCCAGAGCCTTACCATGCTGCTCCCCAGGAAGTCCAGGAGCTGCTGACACC
CCCCTGGACAGCGACACATCCTCTCTCAAGAAAATGGACAAGCTGAATAAGATAACTGTCCCTGCCAGCC
AGAAGCTGAGACAGCTTCAAAGATGGTCCATGATATTAGAACAATGAAGGTGGAATAATGGACAAGAT
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GGTGGTCCATCCAGCCCTGCCCTCACGAGGGGCGAGTATGTAGATAATCGATCCAGCCAGCGGCACTCT
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GCTGAACTGCTCGTAAGCCCTGGTATGCTGGCGCCTGTGACCCGAAGTCTGCTGAAGAGGCTTGCACA
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AGTTGCGTTCCTTAACAAGCGAGTGTATAATTCCTGTACGGTTTATTGAAGCAACCAAACAGTATGCT
TTGGGAAAGAAGAAAATGGTGAAGAGTACTTCGGAAGTGTGTGGAATTCGTCAACAGTACCAGCACA
ACCCCTGGTTCCTATTGACAGTCAGAATAACACGAAAGATTCCACGAGACTGAAATATGCTGTGAAGGT
TTCATAACGATACCACGGTTCAGACATGTCTCTGTTTCTTTTGGAGAAAACATCATATTCTGGCTA
TGACTCCTCAGCAGTAAGAGAGAAAAGATGAATGAAGCCACTGAGGCTTCGTGAATGAATGAACTACTC
CTTCTAGGGCTTCACACGAGCTTTTCTATCACCTGACCTGACGAAGTCATAGCTGGGGAGGTTCCGTT
ACTATGATACTAATATTGTCAAATAAATGATTTAAAAGCAAAAAAAAAAAAAAAAAAGGGCGCCGCTCTA GA

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|-------------------------------|---|
| <b>Restriction Sites:</b>     | RsrII-NotI  |
| <b>ACCN:</b>                  | NM_008528   |
| <b>Insert Size:</b>           | 1374 bp   |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">BC059785</a> , <a href="#">AAH59785</a>   |
| <b>RefSeq Size:</b>           | 1752 bp   |
| <b>RefSeq ORF:</b>            | 1374 bp   |
| <b>Locus ID:</b>              | 17060   |
| <b>UniProt ID:</b>            | <a href="#">Q9QUN3</a>  |
| <b>Cytogenetics:</b>          | 19 34.26 cM   |
| <b>Gene Summary:</b>          | 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] |