

## Product datasheet for **MG207297**

### **Blnk (NM\_008528) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Blnk (NM_008528) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Blnk
Synonyms:	BASH; Bca; Ly-57; Ly57; Lyw-57; SLP-65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207297 representing NM\_008528  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAAGCTGAATAAGATAACTGTCCCTGCCAGCCAGAAGCTGAGACAGCTTCAAAGATGGTCCATG  
 ATATTAAGAACAATGAAGGTGGAATAATGGACAAGATAAAAAAGCTAAAAGTCAAAGGCCCTCCAAGTGT  
 TCCTCGAAGGGACTATGCATTAGACAGCCCTGCAGATGAAGAGGAGCAGTGGTCAGATGACTTCCGACAGT  
 GACTATGAAAATCCAGATGAACATTCGGACTCCGAGATGTATGTGATGCCTGCCGAGGAGACGGGCGACG  
 ATTCCTATGAACCGCTCCCGCTGAGCAGCAGACCGGGTGGTCCATCCAGCCCTGCCCTTCACGAGGGG  
 CGAGTATGTAGATAATCGATCCAGCCAGCGGCACTCTCCGCCCTCAGCAAGACACTTCCCAGTAAGCCC  
 AGCTGGCCTTCAGCGAAAGCGAGGCTGGCCTCCACTCTGCCAGCCCCAACTCTCTACAGAAGCCTCAAG  
 TCCCCCAAGCCAAAGACCTCCTTGAGGATGAGGCTGATTATGTGGTCCCTGTGGAAGATAACGATGA  
 AAATAATATCCATCCCAGAGAAAGCAGCCCGCCCTGCTGAGAAGGCTCCCATGGTGAATAGATCAACC  
 AAGCCAAACAGTTCCTCAAAGCAGATGTCGCCTCCAGGGACTGTCGCAGGTCGAAACAGTGGGGTCTGGG  
 ACTCCAAGTCATCTTTGCCTGCCGACCATCCCCACTACCACGGGCTGGGAAAGAGCCAGCTACACCACT  
 TAAGACTACTCCCGTTCCTCCCTACCGAATGCATCAAATGTTTGTGAAGAAAAGCCTGTTCTCGTGTAG  
 CGCCACCAGGGTCTAGTCACAGACAAGACACTGTACAGTACCAGTGTTCCTCCCACCAGAAACCTG  
 TCCATCAAAGCCTGTACCCTTGCCAAGGTTCCAGAAGCGGGGAGCCAGCTGCAGATGGACCGTTCCA  
 CAGCTTCCCATTAATTCGACGTTTGCAGACCAGGAGGCTGAAGTGCCTCGGTAAGCCCTGGTATGCTGGC  
 GCCTGTGACCGCAAGTCTGCTGAAGAGGCTTGCACAGATCCAACAAGGATGGATCGTTTCTTATTCGGA  
 AGAGCTCTGGCCATGATTCCAAGCAGCCGTACACCCTAGTTGCGTCTTTAACAAGCGAGTGATAAATAT  
 TCCTGTACGGTTTATTGAAGCAACCAACAGTATGCTTTGGGAAAGAAGAAAAATGGTGAAGAGTACTTC  
 GGAAGTGTGTGAAATCGTCAACAGTACCAGCACAACCCCTGGTTCTTATTGACAGTCAAGATAACA  
 CGAAAGATTCCACGAGACTGAAATATGCTGTGAAGTTTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207297 representing NM\_008528  
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRQLQKQMVHDIKNNEGGIMDKIKKLKVKGPPSVPRRDYALDSPADEEEQWSDDFDS  
 DYENPDEHSDSEMYVMPAEETGDSDSYEPPPAEQQTRVVHPALPFTRGEYVDNRSSQRHSPPFKTLPSKP  
 SWPSAKARLASTLPAPNSLQKPQVPPKPKDLLEDEADYVVPVEDNDENYIHPRESSPPPAEKAPMVRST  
 KPNSSSKHMSPPGTVAGRNSGVWDSKSSLPAAPSPLPRAGKKPATPLKTTVPVPLPNASNVCEEKVPVPAE  
 RHRGSSHRQDTVQSPVFPPTQKPVHQPVPLPRFPEAGSPAADGPFHSPFNFSTFADQEAELLGKPWYAG  
 ACDRKSAAEALHRSNKDGSFLIRKSSGHDSKQPYTLVAFFNKRVYNIIPVRFIEATKQYALGKKKNGEYF  
 GSVVEIVNSHQHNPLVLIDSNNTKDSTRCLKYAVKVS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**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\\_008528.4](#), [NP\\_032554.2](#)

**RefSeq Size:** 2097 bp

**RefSeq ORF:** 1374 bp

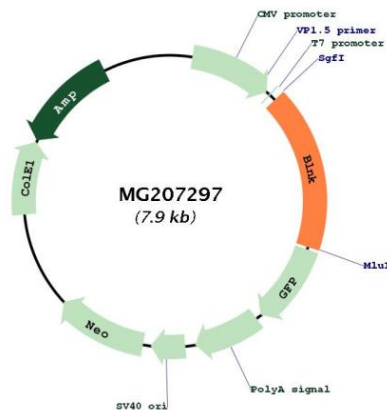
**Locus ID:** 17060

**UniProt ID:** [Q9QUN3](#)

**Cytogenetics:** 19 34.26 cM

**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 MG207297