

## Product datasheet for **RG233692**

### **BLNK (NM\_001258442) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BLNK (NM\_001258442) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BLNK  
**Synonyms:** AGM4; BASH; bca; BLNK-S; LY57; SLP-65; SLP65  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233692 representing NM\_001258442  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACAAGCTTAATAAAAATAACCGTCCCCGCCAGTCAGAAGTTGAGGCAGCTTCAAAGATGGTCCATG  
ATATTA AAAACAATGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGT  
TCCTCGAAGGGACTACGCTTCAGAGAGCCCTGCTGACGAAGAGGAGCAGTGGTCCGATGACTTTGACAGC  
GACTATGAAAATCCAGATGAGCACTCGGACTCAGAGATGTACGTGATGCCCGCCGAGGAGAACGCTGATG  
ACAGCTACGAGCCGCCTCCAGTAGAGCAGGAAACCAGGCCGTTACCCAGCCCTGCCCTTCGCCAGAGG  
AACAGCTTCAGGTCGAAACAGTGGGGCCTGGGAAACCAAGTCACTCCACCGAGCTGCACCATCCCGTTG  
CCACGGGCCGGGAAAAACCAACGACACCACTGAAGACAACCTCCAGTTGCCTCTCAACAGAATGCTTCAA  
GTGTTTGTGAAGAAAAACCTATACCTGCTGAACGCCACCGAGGGTCAAGTACAGACAAGAAGCTGTGCA  
GTCACCAAGTGTTCCTCCTGCCAGAAACAAATCCACCAAAAACCCATACCTCTGCCAAGATTTACAGAA  
GGGGGAAACCAACTGTGGATGGGCCCTACCCAGCTTTTCATCTAATCCACTATTTGAGAACAGGAAG  
CTGGCGTTCTCTGCAAGCCATGGTATGCTGGAGCCTGTGATCGAAAGTCTGCTGAAGAGGCATTGCACAG  
ATCAACAAGTACTTTGGAAGTGTGCTGAAATCATCAGGAATCATCAACATAGTCCTTTGGTCTTATT  
GACAGTCAGAATAACACAAAAGATTCACCAGACTGAAGTATGCAGTTAAAGTTTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233692 representing NM\_001258442  
Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRQLQKQMVHDIKNNEGGIMNKIKKLVKAPPSVPRRDYASESPADEEEQWSDDFDS  
 DYENPDEHSDSEMYVMPAEENADDSYEPPEVEQETRPVHPALPFARGTASGRNSGAWETKSPPPAAPSPL  
 PRAGKKPTTPLKTPVASQONASSVCEEKPIPAERHRGSSHRQEA VQSPVFPPAQKQIHQKPIPLPRFTE  
 GGNPTVDGPLPSFSSNSTISEQEAGVLCKPWYAGACDRKSAEEALHRSNKYFGSVAEIIIRNHQHSPLVLI  
 DSQNNTKDSTRLK YAVKVS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001258442

**ORF Size:** 897 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\\_001258442.1](#), [NP\\_001245371.1](#)

**RefSeq Size:** 1298 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 29760

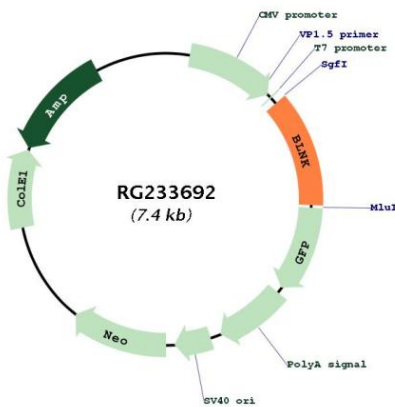
**Cytogenetics:** 10q24.1

**Protein Families:** Druggable Genome

**Protein Pathways:** B cell receptor signaling pathway, Primary immunodeficiency

**Gene Summary:** This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012]

### Product images:



Circular map for RG233692