

Product datasheet for **RG233999**

BLNK (NM_001258440) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BLNK (NM_001258440) 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: >RG233999 representing NM_001258440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAAGCTTAATAAAAATAACCGTCCCCGCCAGTCAGAAGTTGAGGCAGCTTCAAAGATGGTCCATG
 ATATTA AAAACAATGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGT
 TCCTCGAAGGGACTACGCTTCAGAGAGCCCTGCTGACGAAGAGGAGCAGTGGTCCGATGACTTTGACAGC
 GACTATGAAAATCCAGATGAGCACTCGGACTCAGAGATGTACGTGATGCCCGCCGAGGAGAACGCTGATG
 ACAGCTACGAGCCGCTCCAGTAGAGCAGGAAACCAGGCCGTTACCCAGCCCTGCCCTTCGCCAGAGG
 CGAGTATATAGACAATCGATCAAGCCAGAGGCATTCCCCACCCTTCAGCAAGACACTTCCAGTAAGCCC
 AGCTGGCCTTCAGAGAAAAGCAAGGCTCACCTCCACCCTGCCGGCCCTGACTGCTTGCAGAAACCTCAAG
 TCCCACCCAAACCCAAAGGCCTCCTTGAGGATGAGGCTGATTATGTGGTCCCCGTGGAAGATAATGATGA
 AAATAATATCCACAGAAAGCAGTTCACCTCCACCTGAAAAAGCTCCCATGGTGAATAGATCAACC
 AAGCCAAATTCCTCAACGCCCGCCTCCTCCAGGAACAGCTTCAGGTCGAAACAGTGGGGCCTGGGAAA
 CCAAGTCACTCCACCAGCTGCACCATCCCCGTTGCCACGGGCCGGGAAAAAACCAACGACACCAGTAA
 GACAACCTCAGTTGCCTCTCAACAGAATGCTTCAAGTGTGTGAAGAAAAACCTATACCTGCTGAACGC
 CACCGAGGTCAAGTCACAGACAAGAAGCTGTGCAGTCACCAAGTGTTCCTCCTGCCAGAAACAAATCC
 ACCAAAAACCCATACCTCTGCCAAGATTTACAGAAGGGGAAACCAACTGTGGATGGGCCCTACCCAG
 CTTTTATCTAATTCCAATTTTTCAGAACAGGAAGCTGGCGTTCTCTGCAAGCCATGGTATGCTGGAGCC
 TGTGATCGAAAGTCTGCTGAAGAGGCATTGCACAGATCAAACAAGTACTTTGGAAGTGTGCTGAAATCA
 TCAGGAATCATCAACATAGTCCTTTGGTTCTTATTGACAGTCAGAATAACACAAAAGATTCCACCAGACT
 GAAGTATGCAGTTAAAGTTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233999 representing NM_001258440
 Red=Cloning site Green=Tags(s)

MDKLNKITVPASQKLRLQKQKMHVDIKNNEGGIMNKIKKLKVKAPPSVPRRDYASESPADEEEQWSDDFDS
 DYENPDEHSDSEMYVMPAEENADDSYEPPEVEQETRPVHPALPFARGEYIDNRSSQRHSPFPKTLPSKP
 SWPSEKARLTSTLPALTALQKPQVPPKPKGLLEADYVVPVEDNDENYIHPTSSPPEKAPMVNRST
 KPNSSTPASPPGTASGRNSGAWETKSPPPAAPSPLPRAGKKPTTLPKTTTPVASQQNASSVCEEKPIPAER
 HRGSSHRQEAVQSPVFPFAQKQIHQKPIPLPRFTEGGNPTVDGPLPSFSSNSTISEQEAGVLCCKPYAGA
 CDRKSAEEALHRSNKYFGSVAEII RNHQHSPLVLIDSQNNTKDSTRLKYAVKVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258440

ORF Size: 1212 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_001258440.1](#), [NP_001245369.1](#)

RefSeq Size: 1613 bp

RefSeq ORF: 1215 bp

Locus ID: 29760

UniProt ID: [Q8WV28](#)

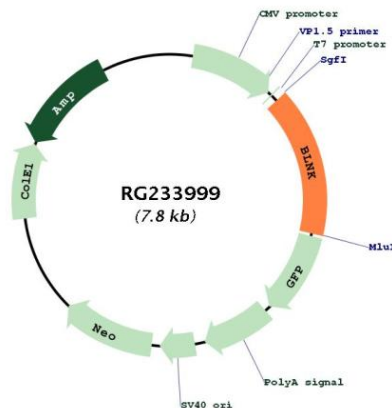
Cytogenetics: 10q24.1

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 RG233999