

Product datasheet for **RG233931**

BLNK (NM_001258441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLNK (NM_001258441) 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:	>RG233931 representing NM_001258441 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAGCTTAATAAAAATAACCGTCCCCGCCAGTCAGAAGTTGAGGCAGCTTCAAAGATGGTCCATG
ATATTA AAAACAATGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGT
TCCTCGAAGGGACTACGCTTCAGAGAGCCCTGCTGACGAAGAGGAGCAGTGGTCCGATGACTTTGACAGC
GACTATGAAAATCCAGATGAGCACTCGGACTCAGAGATGTACGTGATGCCCGCCGAGGAGAACGCTGATG
ACAGCTACGAGCCGCTCCAGTAGAGCAGGAAACCAGGCCGTTACCCAGCCCTGCCCTTCGCCAGAGG
CGAGTATATAGACAATCGATCAAGCCAGAGGCATTCCCCACCCTTCAGCAAGACACTTCCAGTAAGCCC
AGCTGGCCTTCAGAGAAAAGCAAGGCTCACCTCCACCCTGCCGGCCCTGACTGCTTTGCAGAAACCTCAAG
TCCCACCCAAACCCAAAGGCCTCCTTGAGGATGAGGCTGATTATGTGGTCCCCGTGGAAGATAATGATGA
AAACTATATTCATCCACAGAAAGCAGTTCACCTCCACCTGAAAAAGGTCGAAACAGTGGGGCCTGGGAA
ACCAAGTCACCTCCACCAGCTGCACCATCCCCGTTGCCACGGCCGGGAAAAACCAACGACACCACTGA
AGACAACCTCCAGTTGCCCTCAACAGAAATGCTTCAAGTGTGTAAGAAAAACCTATACCTGCTGAACG
CCACCGAGGGTCAAGTCACAGACAAGAAGCTGTGCAGTACCAGTGTTCCTCCTGCCAGAAAACAATC
CACCAAAAACCCATACCTCTGCCAAGATTTACAGAAGGGGAAACCAACTGTGGATGGGCCCTACCCA
GCTTTTCATCTAATTCCTACTTTTCAGAACAGGAAGCTGGCGTCTCTGCAAGCCATGGTATGCTGGAGC
CTGTGATCGAAAGTCTGCTGAAGAGGCATTGCACAGATCAAACAAGTACTTTGGAAGTGTGCTGAAATC
ATCAGGAATCATCAACATAGTCCTTTGGTTCTTATTGACAGTCAGAATAACACAAAAGATTCACCCAGAC
TGAAGTATGCAGTTAAAGTTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233931 representing NM_001258441
Red=Cloning site Green=Tags(s)

```
MDKLNKITVPASQKLRQLQKQMVHDIKNNEGGIMNKIKKLVKAPPSVPRRDYASESPADEEEQWSDDFDS
DYENPDEHSDSEMYVMPAEENADDSYEPPEVEQETRPVHPALPFARGEYIDNRSSQRHSPFPKTLPSKP
SWPSEKARLTSTLPALTALQKQVPPKPKGLLEDEADYVVPVEDNDENYIHPTSSPPEKGRNSGAW
TKSPPPAAPSPLPRAGKKPTTLPKTPVASQQNASSVCEEKPIPAERHRGSSHRQEAQVSPVFPQAQKQI
HQKPIPLPRFTEGNTVDGPLPSFSSNSTISEQEAGVLCKPWYAGACDRKSAAEALHRSNKYFGSVAEI
IRNHQSPLVLIDSQNTKDSTRKLYAVKVS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258441

ORF Size: 1143 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_001258441.1](#), [NP_001245370.1](#)

RefSeq Size: 1544 bp

RefSeq ORF: 1146 bp

Locus ID: 29760

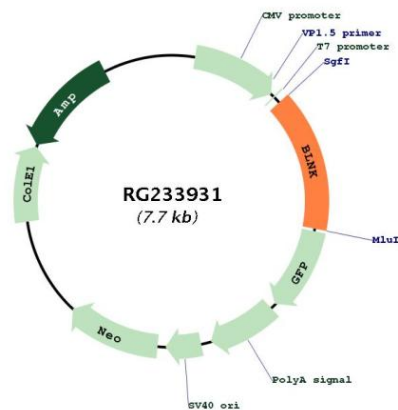
Cytogenetics: 10q24.1

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 RG233931