

Product datasheet for **MG210782**

Bcl11b (NM_021399) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl11b (NM_021399) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bcl11b
Synonyms:	9130430L19Rik; AI604821; B630002E05Rik; BCL-11B; Ctip2; Rit1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210782 representing NM_021399
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 GGTGGGAGGCCCGACCTGATCTACTCACCTGTGGCCAGTGTCAGATGAACTTCCCGCTGGGGACATC
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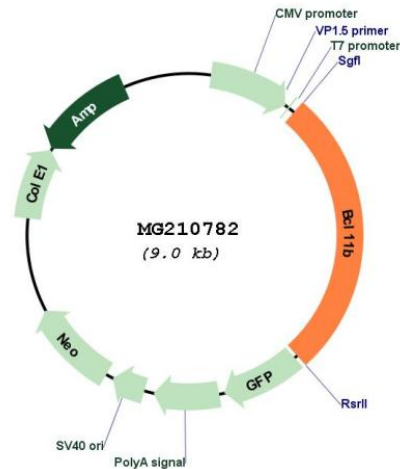
AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210782 representing NM_021399
 Red=Cloning site Green=Tags(s)

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MSRRKQGNPQHLSQRELITPEADHVEATILEEDEGLEIEEPSSLGLMVGGPDPDLLTCGQCQMNFLGDI
LVFIEHKKKQCGGLGPCYDKVLDKSSPPPSSRSELRRVSEPVEIGIQVTPDEDDHLLSPTKGICPKQENI
AGKDEPSSYICTTCKQPFNSAWFLLQHAQNTGFRILEP GPASTSLTPRLTIPPLGPETVAQSPLMNF
LGDSNPFNLLRMTGPILRDHPGFGEGRLPGTPPLFSPPPRHHLDPHRLSAEEMGLVAQHPSAFDRVMRLN
PMAIDSPAMDFSRRRLRELAGNSSTPPPVSPPGRGNPMHRLLNPFQSPKSPFLSTPPLPPMPAGTPPPQPP
AKSKSCEFCGKTFKFQSNLIVHRRSHTGEKPYKCQLCDHACSQASKLKRHMKTHMHKAGSLAGRSDDGLS
AASSPEPGTSELPGDLKAADGDFRHESDPSLGPEPEDEDEEEEEELLENESRPESFSMDSELGRG
RENGGGVPPGVAGAGAAAAALADEKALALGKVMEDAGLGALPQYGEKRGAFKCRAGDTGDAGAVGCGDAG
APGAVNGRGGAFAPGAEPFALFPRKPAPLPSPGLGGPALHAAKRIKVEKDLELPPAALIPSENVYSQWL
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GPGRPSSKEGRRSDTCEYCGKVFKNCSNLTVHRRSHTGERPYKCELCNYACAQSSKLTRHMKTHGQIGKE
VYRCDICQMPFSVYSTLEKHMKKWHGEHLLTNDVKIEQAERS
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SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Plasmid Map:


ACCN:	NM_021399
ORF Size:	2436 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:	<ol style="list-style-type: none"> 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_021399.2 , NP_067374.2
RefSeq Size:	7707 bp
RefSeq ORF:	2439 bp
Locus ID:	58208
UniProt ID:	Q99PV8
Cytogenetics:	12 59.1 cM

Gene Summary:

Key regulator of both differentiation and survival of T-lymphocytes during thymocyte development in mammals (PubMed:12717433). Essential in controlling the responsiveness of hematopoietic stem cells to chemotactic signals by modulating the expression of receptors CCR7 and CCR9, which direct the movement of progenitor cells from the bone marrow to the thymus (By similarity). Is a regulator of IL2 promoter and enhances IL2 expression in activated CD4(+) T-lymphocytes (PubMed:16809611). Tumor-suppressor protein involved in T-cell lymphomas. May function on the P53-signaling pathway. Repress transcription through direct, TFCOUP2-independent binding to a GC-rich response element.[UniProtKB/Swiss-Prot Function]