

## Product datasheet for MC214320

### Spib (NM\_019866) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spib (NM_019866) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spib
Synonyms:	Spi-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214320 representing NM_019866 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCTTGCTCTGGAGGCTGCACAGCTGGATGGCCACACTTAAGCTGTTGTACCCAGAAGGAGTCTTCT  
ACGACCTGGACAGCTGCAAGCCCTTCAGTTACCCAGATTCAGATGGGGCCTTGACTCTACATGGGGCTG  
GACAGAGGCCCGCTGCTCCTGCCATCGCTCCCTATGAAGCCTTCGATCCTGCTACTGCTGCCTTTAGC  
CACTCCAAACTGTTAGCTCTGTTATAGCCATGGTCCTAACCCCTCCACCTATAGCCCATGGGGACCC  
TCGACCCAGCCCCAGCTTGGAGGCCCGAGGCCCTGGCCTCCAGGTGTACCCCCAGAGGACTTCACCAG  
CCAGACCCTGGGCTCCTTGGCTTATGCTCCGTACCCAGCCCTGTGCTATCAGAGGAAGAAGACATTATG  
CTGGACAGCCCCGCCCTGGAGGTCTCGGACAGTGAGTCAGACGAGGCCCTCTTGGCTGGCTCCGAGGGGA  
GGGGATCTGAGGCAGGTGCACGCAAGAAGCTGCGCCTGTACCAGTTCTTGCTGGGGTTGCTCCTACGCGG  
GGACATGCGCGAGTGCGTGTGGTGGGTGGAGCCAGGTGCCGGCGTCTTCCAGTTCTCCTCAAGCACAAG  
GAGTTGTTGGCTCGCGCTGGGGCCAGCAGAAGGGCAACCGCAAGCGCATGACGTATCAGAAGCTGGCCC  
GAGCGCTGCGCAACTATGCCAAGACAGGCGAAATCCGCAAGGTCAAACGCAAACTCACCTACCAGTTTGA  
CAGCGCGCTGCTGCCAGCCTCCCGCATGTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_019866
Insert Size:	804 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_019866.1](#), [NP\\_063919.1](#)

**RefSeq Size:** 2786 bp

**RefSeq ORF:** 804 bp

**Locus ID:** 272382

**UniProt ID:** [O35906](#)

**Cytogenetics:** 7 28.83 cM

**Gene Summary:** Sequence specific transcriptional activator which binds to the PU-box, a purine-rich DNA sequence (5'-GAGGAA-3') that can act as a lymphoid-specific enhancer. Promotes development of plasmacytoid dendritic cells (pDCs), also known as type 2 DC precursors (pre-DC2) or natural interferon (IFN)-producing cells. These cells have the capacity to produce large amounts of interferon and block viral replication. Required for B-cell receptor (BCR) signaling, which is necessary for normal B-cell development and antigenic stimulation. [UniProtKB/Swiss-Prot Function]