

Product datasheet for MR225440

Spib (NM_019866) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spib (NM_019866) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spib
Synonyms:	Spi-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225440 representing NM_019866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGCTCTGGAGGCTGCACAGCTGGATGGCCACACTTAAGCTGTTTGTACCCAGAAGGAGTCTTCT
ACGACCTGGACAGCTGCAAGCCCTTCAGTTACCCAGATTCAGATGGGGCCTTGACTCTACATGGGGCTG
GACAGAGGCCCGCTGCTCCTGCCATCGCTCCCTATGAAGCCTTCGATCCTGCTACTGCTGCTTTAGC
CACTCCAAACTGTTAGCTCTGTTATAGCCATGGTCTAACCCCTCCACCTATAGCCCATGGGGACCC
TCGACCCAGCCCCAGCTTGGAGGCCAGGGCCTGGCCTCCAGGTGTACCCCCAGAGGACTTCACCAG
CCAGACCTGGGCTCCTTGGCTTATGCTCCGTACCCAGCCCTGTGCTATCAGAGGAAGAAGACATTATG
CTGGACAGCCCCGCCCTGGAGGTCTCGGACAGTGAGTCAGACGAGGCCCTCTTGGCTGGCTCCGAGGGGA
GGGGATCTGAGGCAGGTGCACGCAAGAAGCTGCGCCTGTACCAGTTCTTGTGGGTTGCTCCTACGCGG
GGACATGCGCGAGTGCCTGTGGTGGGAGCCAGGTGCCGGCGTCTTCCAGTTCTCTCAAGCACAAG
GAGTTGTTGGCTCGCCGCTGGGGCCAGCAGAAGGGCAACCGAAGCGCATGACGTATCAGAAGCTGGCC
GAGCGCTGCGCAACTATGCCAAGACAGGCGAAATCCGCAAGGTCAAACGCAAACCTCACCTACCAGTTTGA
CAGCGCGCTGCTGCCAGCCTCCCGCATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225440 representing NM_019866
Red=Cloning site Green=Tags(s)

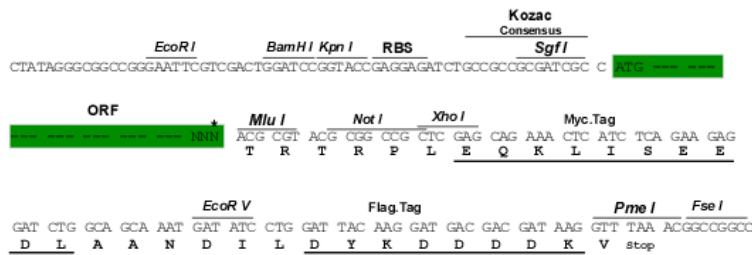
MLALEAAQLDGPLHSCLYPEGVFYDLDSCKPFSYPDSGGLDSTWGWTEAPPAPAIAPYEAFDPATAAFS
 HSQTVQLCYSHGPNPSTYSPMGTLDPAPSLEAPGPGLVYPPDFTSQTLGSLAYAPYSPVLSSEEDIM
 LDSPALEVSDSEDEALLAGSEGRGSEAGARKLRLYQFLLGLLLRGMRECVWVWEPGAGVVFQFSSKHK
 ELLARRWGQQKGNRKRMTYQKLARALRNYAKTGEIRKVKRKLTYQFDSALLPASRHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_019866

ORF Size: 801 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_019866.1](#), [NP_063919.1](#)

RefSeq Size: 2786 bp

RefSeq ORF: 804 bp

Locus ID: 272382

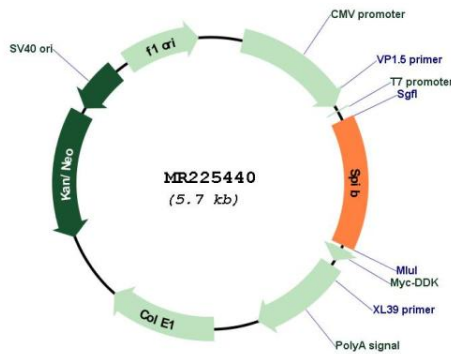
UniProt ID: [O35906](#)

Cytogenetics: 7 28.83 cM

MW: 29.8 kDa

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]

Product images:



Circular map for MR225440