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Product datasheet for MG203271

Slbp (BC029631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slbp (BC029631) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203271 representing BC029631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTGCAGACCTAGAAGCCCACCCGGTTATGGGAGTCGCCGCGACGGTGGTGCGAGCCCGCGGTCCC
CTGCGAGATGGAGTCTCGGACGGAAGCGCAGAGCGGACGGAAGGGACCGGAAGCCCGAGGACTCCGAGGA
AGGCGAGCTCCAGACTGCGGACCACCGACCTGAAAGCTTTACAACTCCTGAAGGCCATAAGCCCCGTTCT
AGATGTTCTGACTGGGCCAGTGCAGTTGAAGAAGATGAAATGAGGACCAGAGTTAACAAAGAGATTGCAA
GTTCTGATTCAAAGGAGTCTATGTCTTCAGTGCCTGCTGATGTGGAGACGGATGAAAGTGTCTTGATGAG
AAGGCAGAAGCAGATCAACTACGGGAAGAACACTATTGCCTATGATCGATATATTAAAGAGGTGCCCAGA
CACCTGCGACAACCTGGAATCCATCCCAGGACCCCCAACAAATTTAAGAAGTACAGCCGGCGGTCATGGG
ACCAACAAATTAAACTCTGGAAGGTGGCTTTGCATTTTTGGGATCCTCCTGCTGAAGAAGGATGTGATTT
GCAAGAAATACAACCTGTAGATCTTGGGGAAATGGAGACTGAATTCACAGAAAGCAGCTCTGAGTCTCAG
ACAAGTTCACAGGATAACTTTGATGTGTATGCTGGCACACCCACCAAAGTCAGACACGTGGACTGCCAAG
TGGAGGATGAGTTTGATTTGGAAGCTTGTTTAACTGAACCTTTGAAAGACTTCTCTGCCATGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG203271 representing BC029631
Red=Cloning site Green=Tags(s)

MACRPRSPPGYGSRRDGGASPRSPARWSLGRKRRADGRDRKPEDSEEGELQTADHRPESFTTPEGHKPRS
RCSDWASAVEEDEMRTRVNKEIASSDSKESMSSVPADVETDESVLMRRQKQINYGKNTIAYDRYIKEVPR
HLRQPGIHPRTPNKFKKYSRRSWDQQIKLWKVALHFWDPPAEEGCDLQEIQPVDLGEMETEFTESSSESQ
TSSQDNFDVYAGTPTKVRHVDCQVEDEFDLEACLTEPLKDFSAMS

TRTRPLE - GFP Tag - V

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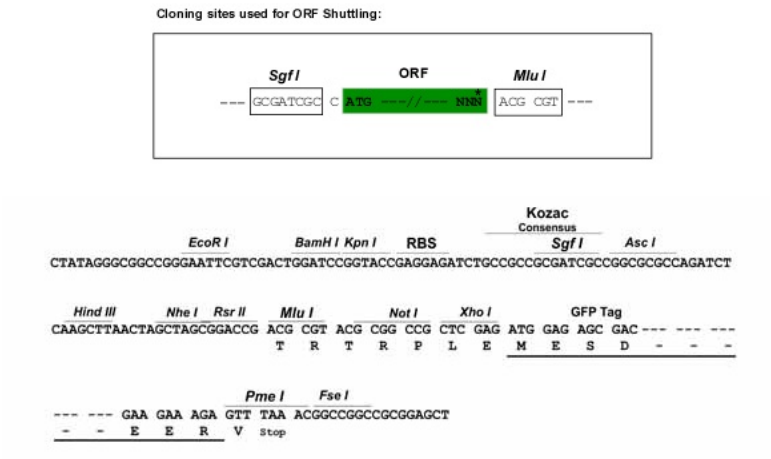
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC029631

ORF Size: 765 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: BC029631, AAH29631

RefSeq Size: 1595 bp

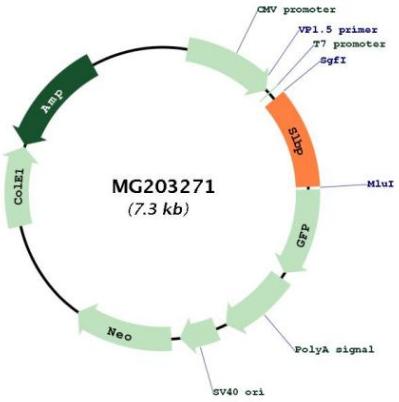
RefSeq ORF: 767 bp

Locus ID: 20492

Cytogenetics: 5 B2

Gene Summary: RNA-binding protein involved in the histone pre-mRNA processing. Binds the stem-loop structure of replication-dependent histone pre-mRNAs and contributes to efficient 3'-end processing by stabilizing the complex between histone pre-mRNA and U7 small nuclear ribonucleoprotein (snRNP), via the histone downstream element (HDE). Plays an important role in targeting mature histone mRNA from the nucleus to the cytoplasm and to the translation machinery. Stabilizes mature histone mRNA and could be involved in cell-cycle regulation of histone gene expression (By similarity). Involved in the mechanism by which growing oocytes accumulate histone proteins that support early embryogenesis. Binds to the 5' side of the stem-loop structure of histone pre-mRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203271