

## Product datasheet for MR203191

### Sbds (NM\_023248) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Sbds (NM\_023248) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Sbds  
 Synonyms: 4733401P19Rik; AI836084; CGI-97; SDS  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR203191 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGTCGATCTTCACCCCCACCAACCAGATCCGACTGACCAATGTGGCCGTGGTGC GGATGAAGCGGGGAG  
 GGAAGCGCTTCGAAATCGCCTGCTATAAAAACAAGGTCGTCGGCTGGCGGAGTGGCGTGGAAAAAGACCT  
 TGATGAAGTTCTGCAGACCCATTAGTGTGGTAAATGTTTCAAAGGTCAGGTTGCCAAGAAGGAAGAC  
 CTCATCAGTGCATTTGGGACAGACGACCAGACTGAAATCTGCAAGCAGATTTTGACTAAAGGAGAAGTTC  
 AAGTGTCAGATAAAGAACGGCACACAGCTGGAGCAGATGTTTAGGGATATCGCCACCATTGTGGCAGA  
 CAAGTGTGTGAACCCAGAAACAAAGAGACCTTACACCGTTATCCTCATCGAGAGGCCATGAAGGACATC  
 CACTACTCCGTGAAACCAACAAGAGCACAAGCAACAGGCTTTGGAAGTGATAAAGCAGCTGAAAGAGA  
 AGATGAAGATAGAGCGGGCCACATGCGATTGCGCTTCATCCTGCCAGTGAACGAAGGGAAGAAGCTGAA  
 GGAGAAGCTGAAGCCACTGATGAAGGTGGTGGAGAGTGAGGACTACAGCCAGCAGCTGGAGATCGTGTGC  
 CTCATCGACCCAGGCTGCTTCAGAGAAATTGATGAGCTAATAAAAAAGGAAACGAAAGGCCAGGGTTCTC  
 TGAAGTGCTCAGTCTGAAGGACGTGGAGGAAGGCGATGAGAAGTTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203191 protein sequence  
 Red=Cloning site Green=Tags(s)

MSIFTPNTQIRL TNVAVVRMKRGGKRFEIACYKNKVVGWRSVGEKDLDEVLQTHSVFVNVSKGQVAKKED  
 LISAFGTDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKRPTYVILIERAMKDI  
 HYSVKPNKSTKQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKLLKEKLKPLMKVVESEDYSQQLEIVC  
 LIDPGCFREIDELIKKETKGRGSLEVL SLKDVEEGDEKFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_023248

ORF Size: 753 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\\_023248.2](#)

**RefSeq Size:** 1495 bp

**RefSeq ORF:** 753 bp

**Locus ID:** 66711

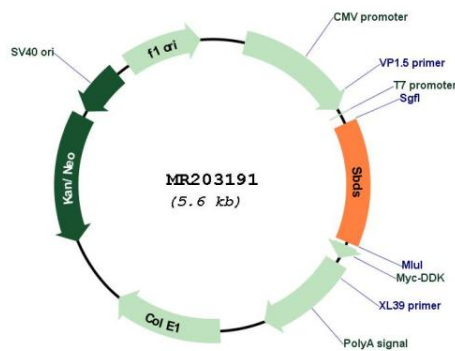
**UniProt ID:** [P70122](#)

**Cytogenetics:** 5 G1.3

**MW:** 28.8 kDa

**Gene Summary:** This gene encodes a protein that is necessary for ribosome function and maintaining normal levels of protein synthesis. The encoded protein may function to activate ribosomes for translation, and may be involved in cellular response to stress and DNA damage. Loss of this gene is embryonic lethal while deficiency of the encoded protein in the pancreas is associated with symptoms of Shwachman-Diamond syndrome. [provided by RefSeq, Dec 2015]

### Product images:



Circular map for MR203191