

## Product datasheet for **SC118188**

### SSBP1 (NM\_003143) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | SSBP1 (NM_003143) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | SSBP1   |
| Synonyms:                 | Mt-SSB; mtSSB; SOSS-B1; SSBP  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC118188 sequence for NM_003143 edited (data generated by NextGen Sequencing) |

```
ATGTTTCGAAGACCTGTATTACAGGTA CTTCGTCAGTTTGTAAAGACATGAGTCCGAAACA  
ACTACCAGTTTGGTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGT  
CAGGACCCTGTCTTGAGACAGGTGGAAGGAAAAATCCAGTCACAATATTTTCTCTAGCA  
ACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAACTGGGTGATGTCAGTCAA  
AAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGCCTCAGAGACGTGGCATATCAA  
TATGTGAAAAAGGGTCTCGAATTTATTTGGAAGGAAAAATAGACTATGGTGAATACATG  
GATAAAAAATAATGTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATTTCTG  
AGTGACCAGACGAAAGAGAAGGAGTAG
```

Clone variation with respect to NM\_003143.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003143 unedited  
 GGGTCATATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCGGAGTGA  
 TCCCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTG  
 TAAGAAAAGAAAATAGAAGCCATGTTTCGAAGACCTGTATTACAGGACTTTCGTCAAGTTT  
 GTAAGACATGAGTCCGAAACAACACCAGTTTGGTTCTTGAAAGATCCCTGAATCGTGTG  
 CACTTACTTGGGCGAGTGGTCAGGACCCTGTCTTGAGACAGGTGGAAGGAAAAAATCCA  
 GTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTAC  
 CAACTGGGTGATGTCAGTCAAAAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGC  
 CTCAGAGACGTGGCATATCAATATGTGAAAAAGGGTCTCGAATTTATTTGGAAGGGAAA  
 ATAGACTATGGTGAATACATGGATAAAAAATAATGTGAGGCGACAAGCAACAACAATCATA  
 GCTGATAATATTATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAGAAAGGATGATTC  
 TTCTTTGGCCATCATTTGGTACAGTCTCATTTCCAAGTCATGTATAATCTTTATGGCTTC  
 CAAGGACAAGAATAAAATACTCTTTACGTAAAAAAAAAAAAAAAAAAAACTCGACTCT  
 AGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGACCCCGGTGGCATTCTGTGACCC  
 CTTCCCATGCCTCTCTGGCCCTGAAGTTGCCACTTCAGTGCCACAGCCTTGTCTTATA  
 AAATTAAGTGCATCATTTTGTCTGACTAGGTGCTCTTTATAATATTATGGGGTGGAGGGG  
 GGGGGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003143 unedited  
 GCTATGGACCGCGGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTACGTAAA  
 AGATATTTTAATTCTTGTCTTGAAGCCATAAAGATTATACATGACTTGGAAATGAGAC  
 TGTACCAATGATGGCCAAAGAAGAATCATCTTTCTACTCTTCTTTTCGTCTGGTCA  
 CTCAGAAATATAATATTATCAGCTATGATTGTTGTTGCTTGTGCGCTCACATTATTTT  
 TCCATGATTCACCATAGTCTATTTCCCTTCCAATAAATTCGAGACCCCTTTTTCACA  
 TATTGATATGCCACGTCTCTGAGGCTGGCCGGAATACTGATATTCTGTGCCATGTTGTC  
 TTTTGACTGACATCACCCAGTTGGTAACTTCACTATCCCTGATCGCCACATCTCATT  
 GTTGCTAGAGAAAATATTGTGACTGGATTTTTTCTTCCACCTGTCTCAAGACAGGGTCC  
 TGACCCACTCGCCCAAGTAAGTGCACACGATTGAGGGATCTTTCAAGAACCAAATGGTA  
 GTTGTTCGGACTCATGTCTTACAACTGACGAAGTACCTGTAATACAGGTCTTCGAAAC  
 ATGGCTTCTATTTTCTTCTTACAGNCTAATCTTTANGCTCTTCTGACGATCTACCC  
 GAGCCGCCACCCAGCAGGGGATCACTTCGCTTNNGGCCGAATCNNGGCGCCCTATAG  
 TGAGTCGTATTACAATCCTGACGGGTCACTAAACGAGCCCTGCTTATATAAACCSCCA  
 CCGGACACGCCCTAACGCCATTTGTGGTNAACGGGGGGGGTTATACACANATTCTGAA  
 AAGNCCGTTGCTTTGGGGCCCAACCAACCCGCTGGCANNCTGGCGGGGGGTGCGAAA  
 TCCNNGAGAGCCNCCCTTCGGGCTTGGCGGGCCGNCAACCCCTACTCGAGTGGCGNG  
 CCGCAACCAAGCGGGCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003143

**Insert Size:**

690 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_003143.1</a> , <a href="#">NP_003134.1</a>  |
| <b>RefSeq Size:</b>           | 628 bp   |
| <b>RefSeq ORF:</b>            | 447 bp   |
| <b>Locus ID:</b>              | 6742   |
| <b>UniProt ID:</b>            | <a href="#">Q04837</a>   |
| <b>Cytogenetics:</b>          | 7q34   |
| <b>Domains:</b>               | SSB  |
| <b>Protein Families:</b>      | Druggable Genome   |
| <b>Protein Pathways:</b>      | DNA replication, Homologous recombination, Mismatch repair   |
| <b>Gene Summary:</b>          | <p>SSBP1 is a housekeeping gene involved in mitochondrial biogenesis (Tiranti et al., 1995 [PubMed 7789991]). It is also a subunit of a single-stranded DNA (ssDNA)-binding complex involved in the maintenance of genome stability (Huang et al., 2009) [PubMed 19683501]. [supplied by OMIM, Feb 2010]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. Variants 1 through 5 encode the same protein.</p>  |