

## Product datasheet for **MR207411**

### Sp100 (BC069183) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp100 (BC069183) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp100
Synonyms:	A430075G10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207411 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGGGAGCGACGGCAGCCCCAGGATGTCCACTGAACAGGAGAACACAGAGATGCATCTCATTGAAT  
 GTATGTTAAAGCACTTCAAGACACAGAAAGTGGCCATTTCTAATGCGATAAGAAGTACATTTCTTTTCT  
 TGAGAGCCTCCGAGACCATGAATTCATCACTGGTAAAAATGTATGAAGATTTGCTAGATTCCTGTAGATCG  
 CTGGTCCCTGTGGACAAAGTGATCTACAGAGCCCTGGAGGAAGTGGAGAAGAAATTTGACATGACGGTAC  
 TGTGCGAATTGTTCAATGAGGTCAACATGGAGAAGTACCCCGATTTGAATCTCATTTCGTAGAAGCTTTGG  
 ATGTGTGTTTTCCAATGAATTGTGTTTCCAAGGAATTGATGGAGGGAACCCAACTCCAGCTAAGTCTT  
 GAACAAGGACCTGGTCCAGCTATTCTCAAGGAAGCCCGAATGGGTCATCCTTAGATCTCTCCGCATCTG  
 AAGGCTGGAGAAGTAATGATAGAAGAAATCCAACCTCATGCAGGCAAACCAAAGTGAATCATCAGCT  
 TGCCGAATCACCAGGTCACCTTGATTCTGTGAAGTCCAAGTCCAAGTGAATAACAGAGATGCTACCCCA  
 GAGTCTTGACAGCCTATTGCCTCAGAATGAAGAAAGAGCTGTGCAACTCAACTATGAAGTCCAGATTAATC  
 CCTGTTTTGTGCAACTGGTAGATGTAAAGAAGGAAAATTCATCATTTTCTTTGGCTGGTAACCAACAAAC  
 CCGAGCAAGGACCAACAAAATGAGGACTCTGAGATAATAGAAGTCAAGTGGGGATTCTGATAATGGA  
 GAGAAGTCTCAGAAGCTACAACCACAGTCCCCTCCAGCCAGCACCTGCATATTCAGAAAACCTCCAA  
 CACTGAGAAGAGACAGAGGAGGAGGAAAAAGAGAGAGAGACTTGGAAAGTACTTAATACGGAACATCAA  
 AATCCCAATGAAACCAAGCTGAAAAACAGCTTTCTAGCAAGAAGTGCCAATCCTTCTTCAACGACGC  
 AGAAAAAGAGGTCCGAGAATCCCAGAGAAGAAATTAAGCAAGGCATCTATGTGAGGAGTATACGGGG  
 CAAGACAGGGCGGTTATTCACTCCCATGGACTTTGAAATCGAAGGAAACTGTGAAAAAGCCAAGAAGTGG  
 CGGCAAAGCATCCGCTGCAAGGGATGGACCCTGAGAGAAGTATACAGAAAGGAGTACTACAAGACCCAC  
 CAAGGAAAAAGAAGGAACTCCACGAAACCAAGGCAAACAAGGAGACAGGTAATGCCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207411 protein sequence  
 Red=Cloning site Green=Tags(s)

MEGSDGSPRMSTEQENTEMHLIECMLKHFKTQKVAISNAIRSTFPFLESIRDHEFITGKMYEDLLDSCRS  
 LVPVDKVIYRALEELKFKDMTVLCELFNEVNMEKYPDLNLIIRRSFGCVFPNELCFQIDGGNPNSQLSL  
 EQGPGASYSQGSPPNGSSLDLSASEGWRSNDRRNSNLMQANQTENHQLAESPGHLDSELCVQLNRRDATP  
 ESCSLLPQNEERAVQLNYELQINPCFVQLVDVKKENSSFLAGNQQRARTNQNEDESEIIESSGSDNG  
 ENFSEATTTVPSQPAPAYSARKPPTLRDRGGGKKRERLGSYLIRNIKIPMKPSWKAFLARSANPSSQRR  
 RKRGRIPREENADFGGAELPVVCGNAQGFLDKEKFKQGIYVRSIRGKTGRLFTPMDFEIEGNCEKAKNW  
 RQSIRCKGWLRELIQKGVLDPPRKKKETPRNPRQTRRQVNAL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** BC069183

**ORF Size:** 1392 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:** [BC069183](#), [AAH69183](#)
**RefSeq Size:** 1665 bp

**RefSeq ORF:** 1394 bp

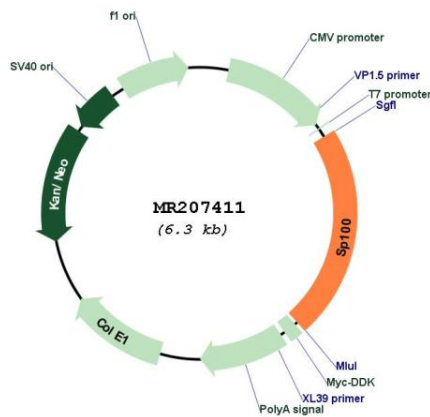
**Locus ID:** 20684

**Cytogenetics:** 1 43.6 cM

**MW:** 52.6 kDa

**Gene Summary:** Together with PML, this tumor suppressor is a major constituent of the PML bodies, a subnuclear organelle involved in a large number of physiological processes including cell growth, differentiation and apoptosis. Functions as a transcriptional coactivator of ETS1 and ETS2. Under certain conditions, it may also act as a corepressor of ETS1 preventing its binding to DNA. Through the regulation of ETS1 it may play a role in angiogenesis, controlling endothelial cell motility and invasion. Through interaction with the MRN complex it may be involved in the regulation of telomeres lengthening. May also regulate TP53-mediated transcription and through CASP8AP2, regulate FAS-mediated apoptosis. May also play a role in infection by viruses through mechanisms that may involve chromatin and/or transcriptional regulation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207411