

## Product datasheet for **MC217750**

### Sp100 (BC069183) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >BC069183  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGGGAGCGACGGCAGCCCCAGGATGTCCACTGAACAGGAGAACACAGAGATGCATCTCATTGAAT  
 GTATGTTAAAGCACTTCAAGACACAGAAAGTGGCCATTTCTAATGCGATAAGAAGTACATTTCTTTTCT  
 TGAGAGCCTCCGAGACCATGAATTCATCACTGGTAAAATGTATGAAGATTTGCTAGATTCCTGTAGATCG  
 CTGGTCCCTGTGGACAAAGTGATCTACAGAGCCCTGGAGGAAGTGGAGAAGAAATTTGACATGACGGTAC  
 TGTGCGAATTGTTCAATGAGGTCAACATGGAGAAGTACCCCGATTTGAATCTCATTTCGTAGAAGCTTTGG  
 ATGTGTGTTTTCCAATGAATTGTGTTTCCAAGGAATTGATGGAGGGAACCCAACTCCAGCTAAGTCTT  
 GAACAAGGACCTGGTGCCAGCTATTCTCAAGGAAGCCCGAATGGGTCATCCTTAGATCTCTCCGCATCTG  
 AAGGCTGGAGAAGTAATGATAGAAGAAATCCAACCTCATGCAGGCAAACCAAAGTGAATCATCAGCT  
 TGCCGAATCACCAGGTACCTTGATTCTGTGAAGTCCAAGTCCAAGTGAATAACAGAGATGCTACCCCA  
 GAGTCTTGACGCCTATTGCCTCAGAATGAAGAAAGAGCTGTGCAACTCAACTATGAACTCCAGATTAATC  
 CCTGTTTTGTGCAACTGGTAGATGTAAAGAAGGAAAATTCATCATTTTCTTGGCTGGTAACCAACAAAC  
 CCGAGCAAGGACCAACAAAATGAGGACTCTGAGATAATAGAAGTCAAGTGGGGATTCTGATAATGGA  
 GAGAACTTCTCAGAAGCTACAACCACAGTCCCCTCCAGCCAGCACCTGCATATTCAGAAAACCTCCAA  
 CACTGAGAAGAGACAGAGGAGGAGGAAAAGAGAGAGAGACTTGGAAAGTACTTAATACGGAACATCAA  
 AATCCCAATGAAACCAAGCTGAAAACAGCTTTCTAGCAAGAAGTGCCAATCCTTCTTCAACGACGC  
 AGAAAAAGAGGTCCGAGAATCCCAGAGAAGAAATTAAGCAAGGCATCTATGTGAGGAGTATACGGGG  
 CAAGACAGGGCGGTTATTCACTCCCATGGACTTTGAAATCGAAGGAAACTGTGAAAAAGCCAAGAAGTGG  
 CGGCAAAGCATCCGCTGCAAGGGATGGACCCTGAGAGAAGTATACAGAAAGGAGTACTACAAGACCCAC  
 CAAGGAAAAAGAAGGAACTCCACGAAACCAAGGCAAACAAGGAGACAGGTAATGCCCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** BC069183
- Insert Size:** 1395 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]