

## Product datasheet for **MC219399**

### Sp100 (NM\_013673) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp100 (NM_013673) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sp100
Synonyms:	A430075G10Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219399 representing NM\_013673  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGGGAGCGACGGCAGCCCCAGGATGTCCACTGAACAGGAGAACACAGAGATGCATCTCATTGAAT  
 GTATGTTAAAGCACTTCAAGACACAGAAAGTGGCCATTTCTAATGCGATAAGAAGTACATTTCTTTTCT  
 TGAGAGCCTCCGAGACCATGAATTCATCACTGGTAAAAATGTATGAAGATTTGCTAGATTCCTGTAGATCG  
 CTGGTCCCTGTGGACAAAGTGATCTACAGAGCCCTGGAGAACTGGAGAAGAAATTTGACATGACGGTAC  
 TGTGCGAATTGTTCAATGAGGTCAACATGGAGAAGTACCCCGATTTGAATCTCATTCTGTAAGCTTTGG  
 ATGTGTGTTTTCCAATGAATTGTGTTTCCAAGGAATTGATGGAGGGAACCCAACTCCAGCTAAGTCTT  
 GAACAAGGACCTGGTCCAGCTATTCTCAAGGAAGCCCGAATGGGTCATCCTTAGATCTCTCCGCATCTG  
 AAGGCTGGAGAAGTAATGATAGAAGAAATCCAACCTCATGCAGGCAAACCAAAGTGAATCATCAGCT  
 TGCCGAATCACCAGGTCACCTTGATTCTGTGAACCTCAAGTCCAAGTGAATAACAGAGATGCTACCCCA  
 GAGTCTTGACGCTATTGCCTCAGAATGAAGAAAGAGCTGTGCAACTCAACTATGAACTCCAGATTAATC  
 CCTGTTTTGTGCAACTGGTAGATGTAAAGAAGGAAAATTCATCATTTTCTTTGGCTGGTAACCAACAAAC  
 CCGAGCAAGGACCAACAAAATGAGGACTCTGAGATAATAGAAGTCAAGTGGGGATTCTGATAATGGA  
 GAGAAGTCTCAGAAGCTACAACCACAGTCCCCTCCAGCCAGCACCTGCATATTCAGAAAACCTCCAA  
 CACTGAGAAGAGACAGAGGAGGAGATACTTCTGACACTGAGAGCTCTATCATCATTAGAAGACGGAAAAG  
 GACAGGACGGAAAAGAGAGAGAGACTTGGAAAGTACTTAATACGGAACATCAAATCCAATGAAACCA  
 AGCTGGAAAACAGCTTTCTAGCAAGAAGTGCCAATCCTTCTTCAACACGACGCAGAAAAGAGGTCGGA  
 GAATCCCAGAGAAGAAAATGCGGATTTTGGAGGAGCTGAGCTTCTGTGGTATGTGGCAACGCTCAGGG  
 CTTCTGGATAAAGGAGAAATTTAAGCAAGGCATCTATGTGAGGAGTATACGGGGCAAGACAGGGCGGTTA  
 TCACTCCATGGACTTTGAAATCGAAGGAACTGTGAAAAGCCAAAGAACTGGCGGCAAGCATCCGCT  
 GCAAGGGATGGACCCTGAGAGAAGTATACAGAAAAGGAGTACTACAAGACCCACCAAGGAAAAAGAGGA  
 AACTCCACGAAACCAAGGCAACAAGGAGACAGAAATGTGAAGTCTTCTTTGACTATCTATTGCTAT  
 CCAAAAAGTGGCTTTTTATCCCAACCAAGCAAGGAAAGAGAAGTTTCCAGACCTCCGGGAGCACA  
 TGTGGTTAAACAAAATCAAGAATAGGCTGAATAAGAAGGCATACCATTCCGTACGACGCTTTGTGGAGGA  
 CATGCGCCTCATTTTCAACACAGCATATTTATAAAAAAGGTTCAAAAATCTTGGAAATCATAGTA  
 GAAAAGAAATTTGAGAAGATTTCAAAGGATTTTTCAATCGAGGATACAAGCGAGCAACATGAACCGT  
 GCAACCACACCGTTTTGTTAAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_013673
- Insert Size:** 1776 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:** [NM\\_013673.4](#), [NP\\_038701.2](#)

**RefSeq Size:** 2788 bp

**RefSeq ORF:** 1776 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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).