

## Product datasheet for **MR220765**

### Sp100 (NM\_013673) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp100 (NM_013673) 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:**

>MR220765 representing NM\_013673  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGGGAGCGACGGCAGCCCCAGGATGTCCACTGAACAGGAGAACACAGAGATGCATCTCATTGAAT  
 GTATGTTAAAGCACTTCAAGACACAGAAAAGTGGCCATTTCTAATGCGATAAGAAGTACATTTCTTTTCT  
 TGAGAGCCTCCGAGACCATGAATTCATCACTGGTAAAATGTATGAAGATTTGCTAGATTCCTGTAGATCG  
 CTGGTCCCTGTGGACAAAGTGATCTACAGAGCCCTGGAGGAAGTGGAGAAGAAAATTTGACATGACGGTAC  
 TGTGCGAATTGTTCAATGAGGTCAACATGGAGAAGTACCCCGATTTGAATCTCATTTCGTAGAAGCTTTGG  
 ATGTGTGTTTTCCAATGAATTGTGTTTCCAAGGAATTGATGGAGGGAACCCAACTCCAGCTAAGTCTT  
 GAACAAGGACCTGGTCCAGCTATTCTCAAGGAAGCCGAATGGGTCATCCTTAGATCTCTCCGCATCTG  
 AAGGCTGGAGAAGTAATGATAGAAGAAATCCAACCTCATGCAGGCAAACCAAAGTGAATCATCAGCT  
 TGCCGAATCACCAGGTCACCTTGATTCTGTGAAGTCCAAGTCCAAGTGAATAACAGAGATGCTACCCCA  
 GAGTCTTGCGACCTATTGCCTCAGAATGAAGAAAGAGCTGTGCAACTCAACTATGAACTCCAGATTAATC  
 CCTGTTTTGTGCAACTGGTAGATGTAAAGAAGGAAAATTCATCATTTTCTTTGGCTGGTAACCAACAAAC  
 CCGAGCAAGGACCAACAAAATGAGGACTCTGAGATAATAGAAGTCAAGTGGGATTCTGATAATGGA  
 GAGAAGTCTCAGAAGCTACAACCACAGTCCCCTCCAGCCAGCACCTGCATATTCAGAAAACCTCCAA  
 CACTGAGAAGAGACAGAGGAGGAGATACTTCTGACACTGAGAGCTCTATCATATTAGAAGACGGAAAAG  
 GACAGGACGGAAAAGAGAGAGAGACTTGAAGCTACTTAATACGGAACATCAAATCCCAATGAAACCA  
 AGCTGGAAAACAGCTTTCTAGCAAGAAGTCCCAATCCTTCTTCAACACGACGCAAGAAAAGAGGTCGA  
 GAATCCCAGAGAAGAAAATGCGGATTTTGGAGGAGCTGAGCTTCTGTGGTATGTGGCAACGCTCAGGG  
 CTTCTGGATAAGGAGAAAATTAAGCAAGGCATCTATGTGAGGAGTATACGGGGCAAGACAGGGCGGTTA  
 TCACTCCCATGGACTTTGAAATCGAAGGAAAAGTGTGAAAAGCCAAAGAACTGGCGGCAAAAGCATCCGCT  
 GCAAGGGATGGACCCTGAGAGAAGTATACAGAAAAGGAGTACTACAAGACCCACCAAGGAAAAGAGGA  
 AACTCCACGAAACCAAGGCAAAACAGGAGACAGAAAATGTGAAGTCTTCTTTGACTATCTATTGCTAT  
 CCAAAAAGTGGCTTTTTATCCCAAAACCAAGCAAGGAAAAGAGAAGTTCCAGACCTCCGGGAGCACA  
 TGTGGTTAAACAAAATCAAGAATAGGCTGAATAAGAAGGCATACCATTCCGTACGACGCTTTGTGGAGGA  
 CATGCGCCTCATTTTCAACACAGCATATTTATAAAAAAGGTTCAAAAATCTTGAATCATAGTA  
 GAAAAGAAAATTTGAGAAGATTTCAAAGGATTTTTCAATCGAGGATACAAGCGAGCAACATGAACCGT  
 GCAACCACACCGTTTTGTTAACC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220765 representing NM\_013673  
 Red=Cloning site Green=Tags(s)

MEGSDGSPRMSTEQENTEMHLIECMLKHFKTQKVAISNAIRSTFPFLESRLRDEHFIITGKMYEDLLDSCRS  
 LVPVDKVIYRALEELEKFKDMTVLCELFNEVNMEKYPDLNLIIRRSFGCVFPNELCFQIGDGGNPNSQLSL  
 EQGPGASYSQSPNGSSLDLSASEGWSNDRRNSNLMQANQNTENHQLAESPGHLDSELCVQLNRRDAP  
 ESCSLLPQNEERAVQLNYELQINPCFVQLVDVKKENSSFLAGNQQRARTNQNEDESEIIEISSGSDNG  
 ENFSEATTTVPSQPAPAYSRRKPPTLRDRGGDSDTESSIIIRRRKRTGRKKRERLSYLIRNIKIPMKP  
 SWKTAFLARSANPSSQRRRKRGRIPREENADFGGAELPVVCGNAQGFLDKEKFKQGIYVRSIRGKTGRL  
 FTPMDFEIEGNCEKAKNWRQSIKCKGWTLRELIQKGVLDPPRKKKTPRNPRQTRRQKCELLLLTIYCY  
 PKSGFFIPKPKQRKEKFPDLREHMWLNKIKNRLNKKAYHSVRRFVEDMRLIFHNHSIFYKRFKNLGIIV  
 GKKEKFNFKRIFSIEDTSEQHEPCNHTVLLT

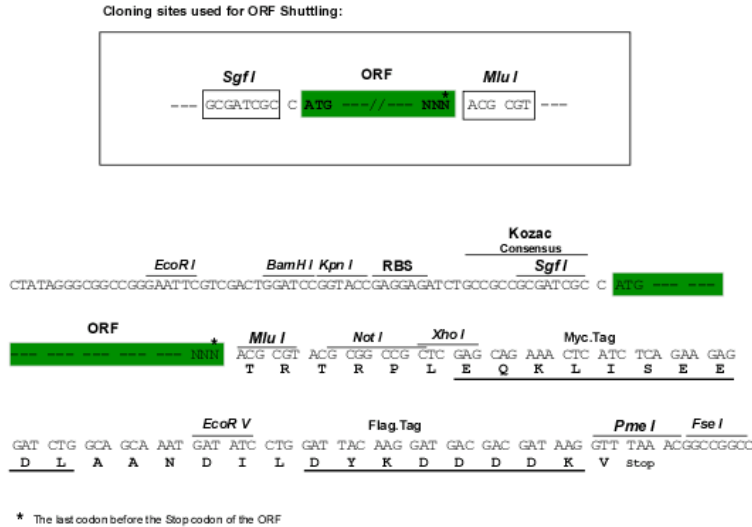
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1646\\_e05.zip](https://cdn.origene.com/chromatograms/ja1646_e05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_013673

ORF Size: 1773 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\\_013673.4](#), [NP\\_038701.2](#)

RefSeq Size: 2158 bp

RefSeq ORF: 1776 bp

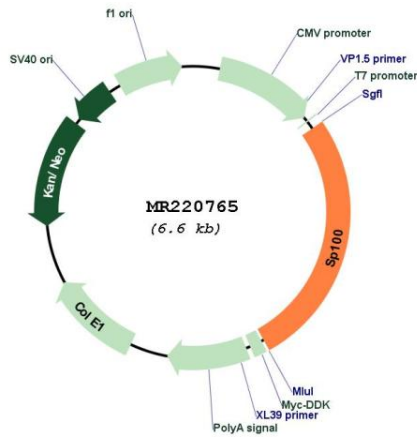
Locus ID: 20684

**Cytogenetics:** 1 43.6 cM

**MW:** 68.6 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 MR220765