

Product datasheet for **RC223736**

SP100 (NM_003113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP100 (NM_003113) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP100
Synonyms:	lysp100b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC223736 representing NM_003113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGTGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGAATGATTTCCACAGTAGCAAATGAGA
 TGAACCATCTTCCTGCACACAGCCACGATTTGCAAAGGATGTTACGGAAGACCAGGGTGTAGATGACAG
 GCTGCTCTATGACATTGTATTCAAGCACTTCAAAAAGAAATAAGGTGGAGATTTCAAATGCAATAAAAAAG
 ACATTTCCATTTCGAGGGCCTCCGTGATCGTGATCTCATCACAATAAAATGTTTGAAGATTCTCAAG
 ATTCTGTAGAAACCTGGTCCCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAAGTGGAGAAGACATT
 TAACCTGCCAGTCTGGAAGCACTGTTCAAGCATGTCAACATGCAGGAATACCCCGATTTAATTCACATT
 TATAAAGGCTTTGAAAATGTAATCCATGACAAATTCCTCTCCAAGAAAGTGAAGAAGAAGAGGGGAGG
 AGAGGTCTGGCCTCCAATAAGTCTTGAACAAGGAAGTGGTGAAGTCTTTTTCGAAGCCTGACTTGGCC
 ACCTTCGGGTTCCCATCTCATGCTGGTACAACCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAA
 ACAGAACAGATAAATGCAAAGAGAAAAGATACAACCAAGTACAAAAGATGATTCGCTAGGAAGCCAACAAA
 CAAATGAACAATGTGCTCAAAGGCTGAGCCAACAGAGTCTGCGAACAATTTGCTGTCCAAGTGAATAA
 TGGGGATGCTGGAAGGGAGATGCCCTGCCCGTTGCCCTGTGATGAAGAAAGCCAGAGGCAGAGCTACAC
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 GAGCCTGTGATCAATAATGACAACCTTTAGAATCAAATGATGAAAAGGAGGGCCCAAGAAGCCACTTGCT
 CACGACCCAGATTGTACCAGAGCCCATGGATTTTCAGAAATTCAGAAAATTAATCTACATTCAGAGAAAGTTTAAAGAA
 AAGAGTGATAGGACAAGACCACGACTTTTCAGAAATCCAGTGAAGGAGGAGCGCCCGCAGAAAGCCTCGAGC
 GGGCACTGAGAAGCAAGCATGGTGAAGGCTCCTATGACTTCTAGAAGTACATCTACTTGGAGAATAC
 CCAGCAGGAAGAGACGTTTCAGCAGTAGTACTTTTCAGACCTGAGTAATGGAGAAGAGCTTCAGAAAAC
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 GTCATGTGTTTTCCAAAAGGTGTCCAAGAAGCCAAGAAGCAAGGACTGAAAGTGTCAAGCATCTGACA
 TGATGGATACCATGGATGTTGAAAACAATTTACTTTGGAAAAACACAGTGGGAAAAGAAGAAAAAGAG
 AAGGCATAGATCTAAAGTAAATGGTCTCCAAGAGGGAGAAAAGAAAGACAGACCTAGAAAACATTTAACT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223736 representing NM_003113
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MAGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDRLLYDIVFKHFKRKVEISNAIKK
 TFPFLEGLRDRDLITNMFEDSQDSCRNLVPVQRVVYVNLSELEKTFNLPVLEALFSDVMQEYPLIHI
 YKGFENVIHDKLPLQESEEEEREERSGLQLSLEQGTGENSFRSLTWPPSGSPSHAGTTPPENGLSEHPCE
 TEQINAKRKDSTSDDKSLGSQQTNEQCAQKAEPTECEQIAVQVNNGDAGREMPCLPCDEESPEALH
 NHGIQINSCSVRLVDIKKEKPFNSKVECAQARTHHNQASDIIVISSEDESGSTDVDEPLEVVISAPRS
 EPVINNDNPLESNDEKEGQEAATSRPQIVPEPMDFRKLSTFRESFKRVIQGDHDFSESSEEEAPEASS
 GALRSKHGEKAPMTSRSTSTWRIPSRKRRFSSSDFSDLNNGEELQETCSSSLRRGSGSQPQEPENKKCSC
 VMCFPKGVPRSQEARTESSQASDMMTMDVENNSTLEKHSKRRKRRHRKSVNGLQRGRKKDRPRKHLT
 LNNKVQKKRWQQRGRKANTRPLKRRRKRGPRIKDENINFKQSELPVTCGEVKGTLTKERFKQGTSKKCI
 QSEDKKWFTPREFIEGDRGASKNWKLSIRCGGYTLKVLNENKFLPEPPSTRKKRILESHNNTLVDPCEE
 HKKKNPDASVKFSEFLKCCSETWKTIFAKEKGFEDMAKADKAHYEREMKTYIPPKGEKKKKFKDPNAPK
 RPPLAFLFCSEYRPIKGEHPGLSIDDVVKLAGMWNNTAAADKQFYEKKAALKKEYKDDIAAYRAKG
 KPNSAKKRVVKAESKSKKKEEEDEEEDQEEENEEDDDK

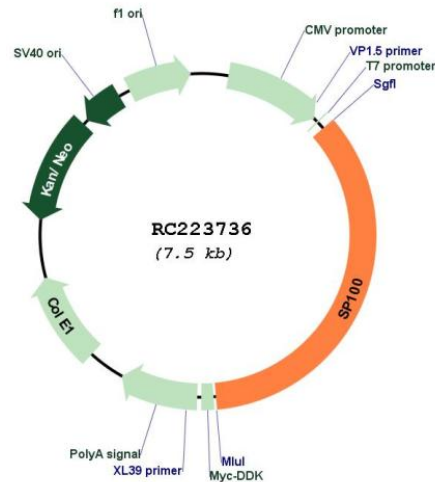
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_003113

ORF Size: 2637 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_003113.4](#)

RefSeq Size: 3688 bp

RefSeq ORF: 2640 bp

Locus ID: 6672

UniProt ID: [P23497](#)

Cytogenetics: 2q37.1

Domains:	SAND, HMG, Sp100
Protein Families:	Transcription Factors
MW:	100.4 kDa
Gene Summary:	This gene encodes a subnuclear organelle and major component of the PML (promyelocytic leukemia)-SP100 nuclear bodies. PML and SP100 are covalently modified by the SUMO-1 modifier, which is considered crucial to nuclear body interactions. The encoded protein binds heterochromatin proteins and is thought to play a role in tumorigenesis, immunity, and gene regulation. Alternatively spliced variants have been identified for this gene; one of which encodes a high-mobility group protein. [provided by RefSeq, Aug 2011]