

Product datasheet for **RC234720**

SP100 (NM_001206701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP100 (NM_001206701) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP100
Synonyms:	lysp100b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC234720 representing NM_001206701
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGTGGGGCGGGCAGCTGAGCACCAGGAGGCTGAATGAATGTATTTACCAGTAGCAAATGAGA
 TGAACCATCTTCCTGCACACAGCCACGATTTGCAAAGGATGTTACGGAAGACCAGGGTGTAGATGACAG
 GCTGCTCTATGACATTGTATTCAAGCACTTCAAAAAGAAATAAGGTGGAGATTTCAAATGCAATAAAAAAG
 ACATTTCCATTTCGAGGGCCTCCGTGATCGTGATCTCATCACAAATAAAATGTTTGAAGATTCTCAAG
 ATTCTTGTAGAAACCTGGTCCCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAAGTGGAGAAGACATT
 TAACCTGCCAGTCTGGAAGCACTGTTCAAGCATGTCAACATGCAGGAATACCCCGATTTAATTCACATT
 TATAAAGGCTTTGAAAATGTAATCCATGACAAATTCCTCTCCAAGAAAGTGAAGAAGAAGAGGGGAGG
 AGAGGTCTGGCCTCCAATAAGTCTTGAACAAGGAAGTGGTGAAGTCTTTTCGAAGCCTGACTTGGCC
 ACCTTCGGGTTCCCATCTCATGCTGGTACAACCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAA
 ACAGAACAGATAAATGCAAAGAGAAAAGATACAACCAAGTACAAAAGATGATTCGCTAGGAAGCCAACAAA
 CAAATGAACAATGTGCTCAAAGGCTGAGCCAACAGAGTCTGCGAACAATTTGCTGTCCAAGTGAATAA
 TGGGGATGCTGGAAGGGAGATGCCCTGCCCGTTGCCCTGTGATGAAGAAAGCCAGAGGCAGAGCTACAC
 AACCATGGAATCCAAATTAATTCCTGTTCTGTGCGACTGGTGGATATAAAAAAGGAAAAGCCATTTTCTA
 ATTCAAAAGTTGAGTGCCAAGCCCAAGCAAGAAGTCAATCAATAACCAAGGCATCTGACATAATAGTCATCAG
 CAGTGAGGACTCTGAAGGATCCACTGACGTTGATGAGCCCTTAGAAGTCTTCATCTCAGCACCGAGAAGT
 GAGCCTGTGATCAATAATGACAACCTTTAGAATCAAATGATGAAAAGGAGGGCCCAAGAAGCCACTTGCT
 CACGACCCAGATTGTACCAGAGCCCATGGATTTAGAAAATTTACTACATTCAGAGAAAGTTTTAAGAA
 AAGAGTGATAGGACAAGACCACGACTTTTCAGAAATCCAGTGAGGAGGAGGCGCCCGCAGAAGCCTCGAGC
 GGGCACTGAGAAGCAAGCATGGTGAAGGCTCCTATGACTTCTAGAAGTACATCTACTTGGAGAATAC
 CCAGCAGGAAGAGACGTTTCAGCAGTAGTACTTTTCAGACCTGAGTAATGGAGAAGAGCTTCAGGAAAC
 CTGCGACTCATCCCTAAGAAGAGGGTCAGGATCACAGCCACAAGAAGCTGAAAATAGAAGTGTCTCTGT
 GTCATGTGTTTTCCAAAAGGTGTGCAAGAAGCCAAGAAGCAAGGACTGAAAGTAGTCAAGCATCTGACA
 TGATGGATACCATGGATGTTGAAAACAATTCTACTTTGGAAAAACACAGTGGGAAAAGAAGAAAAAGAG
 AAGGCATAGATCTAAAGTAAATGGTCTCCAAGAGGGAGAAAAGAAAGACAGACCTAGAAAACATTTAAGT
 CTGAATAACAAAGTCCAAAAGAAAAGATGGCAACAAGAGGAAGAAAAGCCAACACTAGACCTTTGAAA
 GAAGAAGAAAAGAGGTCCAAGAATTCCAAAGATGAAAATATAATTTTAAACAATCTGAACCTCCTGT
 GACCTGTGGTGAAGTGAAGGGCACTCTATAAAGGAGCGATTCAAACAAGGAACCTCAAAGAAGTGTATA
 CAGAGTGAGGATAAAAAGTGGTTCACTCCAGGGAATTTGAAATTGAAGGAGACCGCGGAGCATCCAAGA
 ACTGGAAGCTAAGTATACGCTGCGGTGGATATACCCTGAAAGTCTGATGGAGAACAATTTCTGCCAGA
 ACCACCAAGCACAAAGAAAAGGTGATGATCAAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234720 representing NM_001206701
 Red=Cloning site Green=Tags(s)

MAGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDRLLYDIVFKHFKRKVEISNAIKK
 TFPFLEGLRDRDLITNMFEDSQDSCRNLVPVQRVYVNVLSELEKTFNLPVLEALFSDVNMQEYPLIHI
 YKGFENVIHDKLPLQESEEEEREERSGLQLSLEQGTGENSFRSLTWPPSGSPSHAGTTPPENGLSEHPCE
 TEQINAKRKDTTSDKDDSLGSQQTNEQCAQKAEPTE SCEQIAVQVNNGDAGREMPCLPCDEESPEAELH
 NHGIQINSCSVRLVDIKKEKPFNSKVECAQARTHHNQASDIIVISSEDESGSTDVDEPLEVVISAPRS
 EPVINNDNPLESNDEKEGQEATCSRPIVPEPMDFRKLSFRSEFKKRVIGQDHDFSESSEEEAPEASS
 GALRSKHGEKAPMTRSTSTWRIPSRKRRFSSSDFSDLNNGEELQETCSSSLRRSGSQPQEPENKKCSC
 VMCFPKGVPRSQEARTESSQASDMMTMDVENNSTLEKHSKRRKRRHRKSVNGLQRGRKKDRPRKHLT
 LNNKVQKRWQQRGRKANTRPLKRRRKRGPRIKDENINFKQSELVPTCGEVKGTLYKERFKQGTSKKCI
 QSEDKKWFTPREFIEGDRGASKNWKLSIRCGGYTLKVL MENKFLPEPPSTRKKVMIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001206701

ORF Size: 2064 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_001206701.2](#)

RefSeq Size: 2313 bp

RefSeq ORF: 2067 bp

Locus ID: 6672

UniProt ID: [P23497](#)

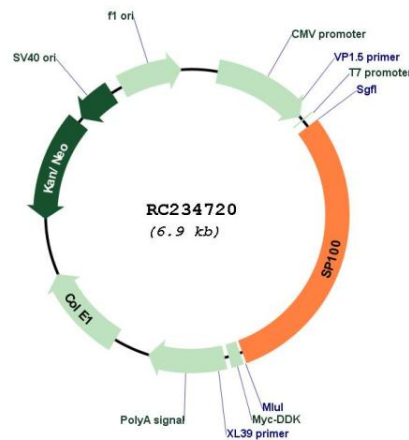
Cytogenetics: 2q37.1

Protein Families: Transcription Factors

MW: 78.6 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]

Product images:



Circular map for RC234720