

Product datasheet for **SC310062**

SP100 (NM_003113) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP100 (NM_003113) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP100
Synonyms:	lysp100b
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003113, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGGTGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGAATGTATTTACCAGTA
GCAAAATGAGATGAACCATCTTCTGCACACAGCCACGATTTGCAAAGGATGTTACAGGAA
GACCAGGTGTAGATGACAGGCTGCTCTATGACATTGTATTCAAGCACTTCAAAAGAAAT
AAGGTGGAGATTTCAAATGCAATAAAAAAGACATTTCCATTCTCGAGGGCCTCCGTGAT
CGTGATCTCATCACAATAAAATGTTTGAAGATTCTCAAGATTCTGTAGAAAACCTGGTC
CCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAAGTGGAGAAGACATTTAACCTGCCA
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TATAAAGGCTTTGAAAATGTAATCCATGACAAATTGCCTCTCCAAGAAAGTGAAGAAGAA
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TTTCGAAGCCTGACTTGGCCACCTTCGGGTTCCCATCTCATGCTGGTACAACCCACCT
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TGCGGTGGATATACCCTGAAAGTCTGTGAGGAGAACAAATTTCTGCCAGAACCAAGC
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CATAAGAAGAAGAACCAGATGCTTCAGTCAAGTCTCAGAGTTTTTAAGAAGTGCTCA
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AAGCCTAATTCAGCAAAAAGAGAGTTGTCAAGGCTGAAAAAGCAAGAAAAGAAAGGAA
GAGGAAGAAGATGAAGAGGATGAACAAGAGGAGGAAAATGAAGAAGATGATGATAATAA

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Restriction Sites: Please inquire
ACCN: NM_003113

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_003113.2</u> , <u>NP_003104.2</u>
RefSeq Size:	3579 bp
RefSeq ORF:	2640 bp
Locus ID:	6672
UniProt ID:	<u>P23497</u>
Cytogenetics:	2q37.1
Domains:	SAND, HMG, Sp100
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks several exons which represent the 3' coding and UTR regions of variant 1. Variant 2 represents use of an alternate transcription termination site resulting in a shorter protein (isoform 2, also known as SP100-HMG) with a distinct C-terminus. Isoform 2 is identified as a high-mobility group protein.</p>