OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC212274

SP100 (NM_001080391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP100 (NM_001080391) 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)

ORF Nucleotide Sequence:

>RC212274 representing NM_001080391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGTGGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGAATGTATTTCACCAGTAGCAAATGAGA
TGAACCATCTTCCTGCACACAGCCACGATTTGCAAAGGATGTTCACGGAAGACCAGGGTGTAGATGACAG
GCTGCTCTATGACATTGTATTCAAGCACTTCAAAAGAAATAAGGTGGAGATTTCAAATGCAATAAAAAAG
ACATTTCCATTCCTCGAGGGCCTCCGTGATCGTGATCTCATCACAAATAAAATGTTTGAAGATTCTCAAG
ATTCTTGTAGAAACCTGGTCCCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAACTGGAGAAGACATT
TAACCTGCCAGTTCTGGAAGCACTGTTCAGCGATGTCAACATGCAGGAATACCCCGATTTAATTCACATT
TATAAAGGCTTTGAAAATGTAATCCATGACAAATTGCCTCTCCAAGAAAGTGAAGAAGAAGAGAGGGAGG
AGAGGTCTGGCCTCCAACTAAGTCTTGAACAAGGAACTGGTGAAAACTCTTTTCGAAGCCTGACTTGGCC
ACCTTCGGGTTCCCCATCTCATGCTGGTACAACCCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAA
ACAGAACAGATAAATGCAAAGAGAAAAGATACAACCAGTGACAAAGATGATTCGCTAGGAAGCCAACAAA
CAAATGAACAATGTGCTCAAAAGGCTGAGCCAACAGAGTCCTGCGAACAAATTGCTGTCCAAGTGAATAA
TGGGGATGCTGGAAGGGAGATGCCCTGCCCGTTGCCCTGTGATGAAGAAAGCCCAGAGGCAGAGCTACAC
AACCATGGAATCCAAATTAATTCCTGTTCTGTGCGACTGGTGGATATAAAAAAGGAAAAGCCATTTTCTA
ATTCAAAAGTTGAGTGCCAAGCCCAAGCAAGAACTCATCATAACCAGGCATCTGACATAATAGTCATCAG
CAGTGAGGACTCTGAAGGATCCACTGACGTTGATGAGCCCTTAGAAGTCTTCATCTCAGCACCGAGAAGT
GAGCCTGTGATCAATAATGACAACCCTTTAGAATCAAATGATGAAAAGGAGGGCCAAGAAGCCACTTGCT
CACGACCCCAGATTGTACCAGAGCCCATGGATTTCAGAAAATTATCTACATTCAGAGAAAGTTTTAAGAA
AAGAGTGATAGGACAAGACCACGACTTTTCAGAATCCAGTGAGGAGGAGGCGCCCGCAGAAGCCTCGAGC
GGGGCACTGAGAAGCAAGCATGGTGAGAAGGCTCCTATGACTTCTAGAAGTACATCTACTTGGAGAATAC
CCAGCAGGAAGAGACGTTTCAGCAGTAGTGACTTTTCAGACCTGAGTAATGGAGAAGAGCTTCAGGAAAC
CTGCAGCTCATCCCTAAGAAGAGGGTCAGGATCACAGCCACAAGAACCTGAAAATAAGAAGTGCTCCTGT
GTCATGTGTTTTCCAAAAGGTGTGCCAAGAAGCCAAGAAGCAAGGACTGAAAGTAGTCAAGCATCTGACA
TGATGGATACCATGGATGTTGAAAACAATTCTACTTTGGAAAAACACAGTGGGAAAAGAAGAAAAAAGAG
AAGGCATAGATCTAAAGTAAATGGTCTCCAAAGAGGGAGAAAGAAAGACAGACCTAGAAAACATTTAACT
CTGAATAACAAAGTCCAAAAGAAAAGATGGCAACAAAGAGGAAGAAAAGCCAACACTAGACCTTTGAAAA
GAAGAAGAAAAAGAGGTCCAAGAATTCCCAAAGATGAAAATATTAATTTTAAACAATCTGAACTTCCTGT
GACCTGTGGTGAGGTGAAGGGCACTCTATATAAGGAGCGATTCAAACAAGGAACCTCAAAGAAGTGTATA
CAGAGTGAGGATAAAAAGTGGTTCACTCCCAGGGAATTTGAAATTGAAGGAGACCGCGGAGCATCCAAGA
ACTGGAAGCTAAGTATACGCTGCGGTGGATATACCCTGAAAGTCCTGATGGAGAACAAATTTCTGCCAGA
ACCACCAAGCACAAGAAAAAAGAGAATACTGGAATCTCACAACAATACCTTAGTTGACCCTTGTCCGGAA
AACTCAAATATATGTGAGGTGTGCAACAAATGGGGACGGCTGTTCTGCTGCGACACTTGTCCAAGATCCT
TTCATGAGCACTGCCACATCCCATCCGTGGAAGCTAACAAGAACCCGTGGAGTTGCATCTTCTGCAGGAT
AAAGACTATTCAGGAAAGATGCCCAGAAAGCCAATCAGGTCATCAGGAATCTGAAGTCCTGATGAGGCAG
ATGCTGCCTGAGGAGCAGTTGAAATGTGAATTCCTCCTCTTGAAGGTCTACTGTGATTCGAAAAGCTGCT
TTTTCGCCTCAGAACCGTATTATAACAGAGAGGGGTCTCAGGGCCCACAGAAGCCCATGTGGTTAAACAA
AGTCAAGACAAGTTTGAATGAGCAGATGTACACCCGAGTAGAAGGGTTTGTGCAGGACATGCGTCTCATC
TTTCATAACCACAAGGAATTTTACAGGGAAGATAAATTCACCAGACTGGGAATTCAAGTACAGGACATCT
TTGAGAAGAATTTCAGAAACATTTTTGCAATTCAGGAAACAAGCAAGAACATTATAATGTTTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212274 representing NM_001080391
Red=Cloning site Green=Tags(s)

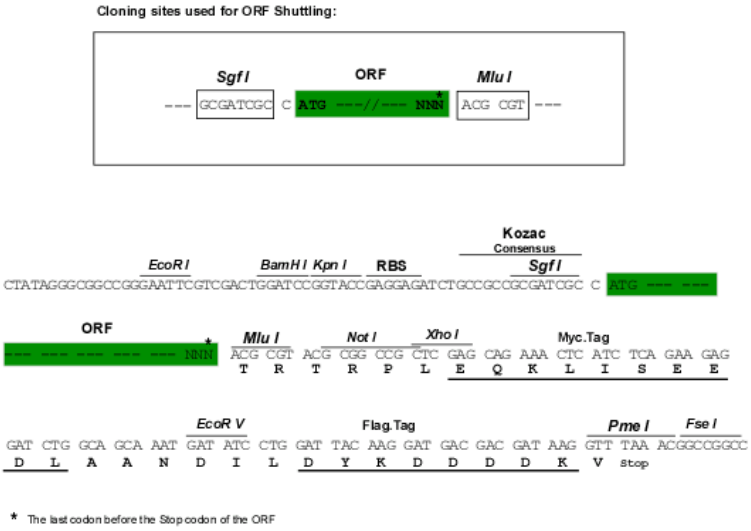
MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDDRLLYDIVFKHFKRNKVEISNAIKK
TFPFLEGLRDRDLITNKMFEDSQDSCRNLVPVQRVVYNVLSELEKTFNLPVLEALFSDVNMQEYPDLIHI
YKGFENVIHDKLPLQESEEEEREERSGLQLSLEQGTGENSFRSLTWPPSGSPSHAGTTPPENGLSEHPCE
TEQINAKRKDTTSDKDDSLGSQQTNEQCAQKAEPTESCEQIAVQVNNGDAGREMPCPLPCDEESPEAELH
NHGIQINSCSVRLVDIKKEKPFSNSKVECQAQARTHHNQASDIIVISSEDSEGSTDVDEPLEVFISAPRS
EPVINNDNPLESNDEKEGQEATCSRPQIVPEPMDFRKLSTFRESFKKRVIGQDHDFSESSEEEAPAEASS
GALRSKHGEKAPMTSRSTSTWRIPSRKRRFSSSDFSDLSNGEELQETCSSSLRRGSGSQPQEPENKKCSC
VMCFPKGVPRSQEARTESSQASDMMDTMDVENNSTLEKHSGKRRKKRRHRSKVNGLQRGRKKDRPRKHLT
LNNKVQKKRWQQRGRKANTRPLKRRRKRGPRIPKDENINFKQSELPVTCGEVKGTLYKERFKQGTSKKCI
QSEDKKWFTPREFEIEGDRGASKNWKLSIRCGGYTLKVLMENKFLPEPPSTRKKRILESHNNTLVDPCPE
NSNICEVCNKWGRLFCCDTCPRSFHEHCHIPSVEANKNPWSCIFCRIKTIQERCPESQSGHQESEVLMRQ
MLPEEQLKCEFLLLKVYCDSKSCFFASEPYYNREGSQGPQKPMWLNKVKTSLNEQMYTRVEGFVQDMRLI
FHNHKEFYREDKFTRLGIQVQDIFEKNFRNIFAIQETSKNIIMFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_c04.zip

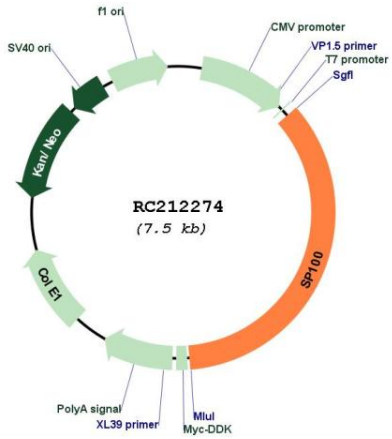
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001080391
ORF Size:	2655 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_001080391.2
RefSeq Size:	5455 bp
RefSeq ORF:	2658 bp
Locus ID:	6672
UniProt ID:	P23497
Cytogenetics:	2q37.1
Protein Families:	Transcription Factors
MW:	101.4 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]

Product images:



Circular map for RC212274