

Product datasheet for **RG234118**

SP100 (NM_001206704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP100 (NM_001206704) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP100
Synonyms:	lysp100b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234118 representing NM_001206704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTTACGGAAGACCAGGGTGTAGATGACAGGCTGCTCTATGACATTGTATTCAAGCACTTCAAAA
 GAAATAAGGTGGAGATTTCAAATGCAATAAAAAAGACATTTCCATTCTCGAGGGCTCCGTGATCGTGA
 TCTCATACAAAATAAAATGTTTGAAGATTCTCAAGATTCTGTAGAAACCTGGTCCCTGTACAGAGAGTG
 GTGTACAATGTTCTTAGTGAAGTGGAGAAGACATTTAACCTGCCAGTTCTGGAAGCACTGTTACAGCGATG
 TCAACATGCAGGAATACCCCGATTTAATTCACATTTATAAAGGCTTTGAAAATGTAATCCATGACAAATT
 GCCTCTCCAAGAAAGTGAAGAAGAAGAGAGGGAGGAGGTCTGGCTCCAATAAGTCTTGAACAAGGA
 ACTGGTGAAGTCTTTTGAAGCCTGACTTGGCCACCTTCGGGTTCATCTCATGCTGGTACAACCC
 CACCTGAAAATGGACTCTCAGAGCACCCCTGTGAAACAGAACAGATAAATGCAAAGAGAAAAGATACAAC
 CAGTGACAAAGATGATTCGCTAGGAAGCCAACAACAATAAATGAACAATGTGCTCAAAGGCTGAGCCAACA
 GAGTCCTGCGAACAAATGCTGTCCAAGTGAATAATGGGGATGCTGGAAGGGAGATGCCCTGCCCGTTGC
 CCTGTGATGAAGAAAGCCAGAGGCAGAGCTACACAACCATGGAATCAAATTAATTCCTGTTCTGTGCG
 ACTGGTGGATATAAAAAAGGAAAAGCCATTTTCTAATTCAAAAGTTGAGTGCCAAGCCCAAGCAAGAACT
 CATCATAACCAGGCATCTGACATAATAGTCATCAGCAGTGAAGGACTCTGAAGGATCCACTGACGTTGATG
 AGCCCTTAGAAGTCTTCTCAGCACCAGAGAGTGAAGCTGTGATCAATAATGACAACCCCTTAGAATC
 AAATGATGAAAAGGAGGGCCAAGAAGCCACTTGTCTCAGCACCAGATTGTACCAGAGCCATGGATTTCC
 AGAAAATTATCTACATTCAGAGAAAAGTTTAAAGAAAAGAGTATAGGACAAGACCAGACTTTTCAGAAT
 CCAGTGAGGAGGAGGCGCCCGCAGAAGCCTCGAGCGGGCACTGAGAAGCAAGCATGGTGAGAAGGCTCC
 TATGACTTCTAGAAGTACATCTACTTGGAGAATACCCAGCAGGAAGAGAGCTTTTCAGCAGTAGTACTTT
 TCAGACCTGAGTAATGGAGAAGAGCTTCAGGAAACCTGCAGCTCATCCCTAAGAAGAGGGTCAGGTAAG
 AAGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234118 representing NM_001206704
 Red=Cloning site Green=Tags(s)

MMFTEDQGVDDRLLYDIVFKHFKRKVEISNAIKKTFPFLEGLRDRDLITNKMFEQSQDSCRNLVPVQRV
 VYNVLSELEKTFNLPVLEALFSDVNMQEYDILHIYKGFENVIHDKLPLQESEEEEEERSGLQLSLEQG
 TGENSFRSLTWPPSGSPSHAGTTPPENGLSEHPCETEQINAKRKDTTSDKDDSLGQQTNEQCAQKAAPT
 ESCEQIAVQVNNGDAGREMPCLPCDEESPEAELHNNHGIQINSCSVRLVDIKKEKPFNSKVECCQAQART
 HHNQASDIIVISSEDESGSTDVDEPLEVVISAPRSEPVINNDNPLESNDEKEQEATCSRQIVPEPMDF
 RKLSTFFRESFKRVIQGDHDFSESSEEEAPAEASSGALRSKHGEKAPMTSRSTSTWRIPSRKRRFSSSDF
 SDLSNGEELQETCSSSLRRGSGKED

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001206704

ORF Size: 1335 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_001206704.1](#), [NP_001193633.1](#)

RefSeq Size: 2050 bp

RefSeq ORF: 1338 bp

Locus ID: 6672

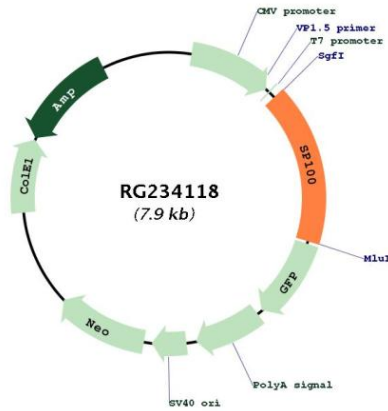
UniProt ID: [P23497](#)

Cytogenetics: 2q37.1

Protein Families: Transcription Factors

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 RG234118