

Product datasheet for **RC239662**

SP140 (NM_001278451) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP140 (NM_001278451) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP140
Synonyms:	LYSP100; LYSP100-A; LYSP100-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239662 representing NM_001278451
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGCAGGGCCAGCAGGGCCAGATGGCAAGTGGAGACAGCAATCTCAACTTCAGGATGGTGCAG
 AGATCCAGAACGTAGAGGGTCAGAACCTGCAGGAGCAGGTTTGCCTGAGCCATTTTCAGGTTCTTCAG
 AGAAAAACAAGGTGGAGATTGCAAGTGAATAACAAGGCCATTTCTTTCTTATGGGCTCCGAGACCGC
 TCCTTCATCTCCGAGCAGATGTATGAACATTTTCAAGAAGCTTTTAGAAACCTGGTCCCAGTGACAAGAG
 TGATGTATTGTACTCAGTGAAGTGGAGAAGACATTTGGCTGGTACATCTGGAAGCATTGTTCCAGCAG
 GATTAACCTGATGGCCTATCCTGATTTAAACGAGATTTACAGAAGCTTCCAGAATGTATGCTATGAACAC
 TCACCTCTCCAAATGAATAATGTAACGATTTAGAAGATAGACCCAGATTACTACCATATGGTAAACAAG
 AGAACAGCAATGCCTGTCATGAAATGGATGATATAGCAGTGCCTCAGGAAGCCTTGAGCTCCTCGCCAAG
 GTGTGAGCCAGGTTTCTTTAGAGTCTTGTGAGCAGTTAGCTCTCCAAAGGCTGGTGGAGGAGATGCT
 GAAGATGCACCCAGCCTACTACCAGGTGGGGGAGTGTCTGTAAACTTGCTATACAAATAGATGAAGGAG
 AATCAGAAGAAATGCCCAAGTACTGCCTTATGATACAGAAGTTCTAGAAAGCAACGGGATGATAGATGC
 GGCAAGGACATACAGCACAGCACCAGGGGAGAAACAGGGAGAGGAGGAAGGCAGGAACAGTCCCAGAAAA
 AGAAACCAAGACAAGGAGAAGTACCAAGAGAGTCCAGAGGGAAAGAGACAAAGAGACCTTTGATCTAAAA
 CTCCCCAAGTCACTAATGAAGGAGAACCAGAGAAGGGCTCTGTCTACTACCAGGTGAAGGAGAAGAGGG
 CAGTGATGACTGTTTCAAGAAATGTGTGATGGAGAAGAGCCAGGAAGCCTTAGCTCCCTAGCAAGATGT
 GGGTCAGTTTCTGTTTATCTGCAGAGACCTTTGATCTAAAGACTCCCCAAGTCACTAATGAAGGAGAAC
 CAGAGAAGGAGCTCAGTCTACTACCAGGTGAAGGAGAAGTGTCTAGTGAAGTGAAGAAATCACCCAATGAA
 TGAAGAAGGAGAATCAGAAGAGCTTCTTCTAGCCTGCTATATGATAATGTACCAGGAGCGGAGCAATCA
 GCATATGAAAATGAGAAGTGTCTGTGTGATGTTTCTCAGAAGAGGTGCCAGGAAGCCAGAAAGCAA
 GGACGGAAAGTGTCAAGCGTGTGGCACAATGGATACTGTGGATTTGCAAACTCCACTTTGGGAAA
 ACCCAAGAGGAAAAGAAGAAAAAGAGGGGGCATGGCTGGAGCAGAATGAGAATGAGAAGGCAGGAAAAAC
 AGCCAACAAAATGATAATAGCAAAGCCGACGGCCAGGTGGTCTCCAGTGAAGAAAGGCGAACGTGAATC
 TGAAAGACCTTTCAAGATTAGGGGAGAAAGAGAGGCAAACTGGAACCCGCTTACTCAGAGTGACAG
 AGCTGCACAGAAAAGAGTCCGATCAAGAGCTTCAAGAAAGCACAAGATGAAACTGTGGATTTAAGGCT
 CCTTTGCTTCCAGTGACCTGTGGTGGGGTGAAGGGAATTTACATAAGAAGAAATTCAGCAAGGAATCT
 TGGTGAAGTGTATACAGACTGAGGATGGAAAATGGTTACCCCCACGGAATTTGAAATCAAAGGAGGCCA
 TGCAAGATCAAAGAACTGGAGGCTGAGTGTGCGCTGTGGCGGGTGGCCCTACGATGGCTGATGGAGAAT
 GGATTTCTGCCTGATCCTCCAAGAATACGTTACAGGAAAAAAGAGAATACTGAAGTCTCAAAACAATA
 GCTCAGTTGACCTTGTATGAGAAACCTGGATGAGTGTGAGGTGTGCCGGACGGAGGGGAGCTGTTCTG
 TTGCGACACTTGTCAAGAGTCTTCCATGAGGACTGTCACATCCCGCCTGTGGAAGCTGAGAGGACCCCG
 TGGAATGCATCTTCTGCAGGATGAAGGAGTCTCCGGGAAGCCAACAGTGTGTCAGGAATCTGAGGTCC
 TGGAGAGGCAGATGTGTCCTGAGGAACAGTTGAAATGTGAGTTCTCTCTTGAAGTCTATTGCTGTTC
 TGAGAGCTCCTTTTTGCCAAGATTCCATACTATTATTATATTAGAGAGGCGTCAAGGCCTGAAGGAG
 CCCATGTGGTTGGATAAAATCAAGAAAAGGCTGAATGAGCACGGTTACCCCAAGTGGAGGGTTGTAC
 AAGACATGCGCCTCATCTTCCAGAACACAGGGCCTTACAAGTACAAGGATTTTGCCAAATGGGATT
 TAGACTGGAGGCTGAGTTTGAAGAATTTCAAGGAAGTGTGCTATTAGGAAACAAATGGGAACAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239662 representing NM_001278451
Red=Cloning site Green=Tags(s)

MAQQGQQGQMASGDSNLNFRMVAEIQNVEGQNLQEQVCEPIFRFFRENKVEIASAITRPFPLMGLRDR
SFISEQMYEHFQEAFRNLVPVTRVMYCVLSELEKTFGWSHLEALFSRINLMAYPDLNEIYRSFQNVCYEH
SPLQMNNVNDLEDRPRLLPYQKQENSACHEMDDIAVPQEAALSSSPRCEPGFSSESCEQLALPKAGGGDA
EDAPSLLPGGGVSCKLAIQIDEGESEEMPKLLPYDTEVLESNGMIDAARTYSTAPGEKQGEIEGRNSPRK
RNQDKEKYQESPEGRDKETFDLKTQVTNEGEPEKGLCLLPGEGEEGSDDCSEMCDGEEPQEASSSLARC
GSVSCLSAETFDLKTQVTNEGEPEKELSLLPGEGEVSSELENHPMNEEGESEELASSLLYDNVPGAEQS
AYENEKCSVMCFSEEVPGSPEARTESDQACGTMDTVDIANNSTLGKPKRKRKRKRGRHGWSRMRMRQEN
SQQNDNSKADGQVVSSEKKANVNLKDLKIRGRKRGKPGTRFTQSDRAAQKRVRSRASRKHKDETVDFKA
PLLPVTCGGVKGILHKKKLQQGILVKCIQTEDGKWFPTTEFEIKGGHARSKNWRLSVRCGGWPLRWLMEN
GFLPDPPIRIRYRKKRILKSNNSVDPICMRNLDECEVCRDGGELFCCDTCSRVFHEDCHIPPVEAERTP
WNCIFCRMKESPGSQCCQSEVLERQMCPEEQKCEFLLLKVYCCSESSFFAKIPYYYYI REACQGLKE
PMWLDKIKKRLNEHGYQVEGFVQDMRLIFQNRASYKYKDFGQMGFRLEAEFEKNFKEVFAIQETNGNN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

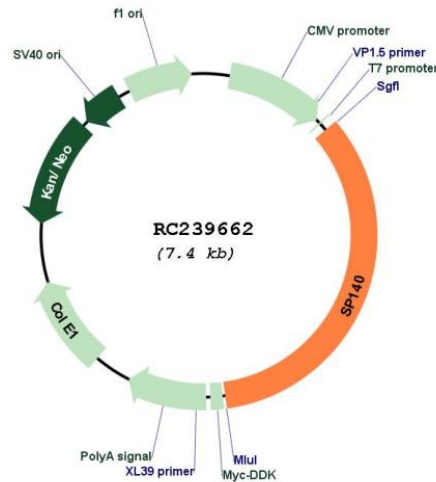
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001278451

ORF Size: 2520 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_001278451.1](#), [NP_001265380.1](#)

RefSeq Size: 3189 bp

RefSeq ORF: 2523 bp

Locus ID: 11262

UniProt ID: [Q13342](#)

Cytogenetics: 2q37.1

Protein Families: Druggable Genome, Transcription Factors

MW: 95.8 kDa

Gene Summary: This gene encodes a member of the SP100 family of proteins, which are share common domains including an N-terminal homogeneously staining region domain followed by a SP100/autoimmune regulator/NucP41/P75/deformed epidermal autoregulatory factor domain, a plant homeobox zinc finger, and a bromodomain. The encoded protein is interferon-inducible and is expressed at high levels in the nuclei of leukocytes. Variants of this gene have been associated with multiple sclerosis, Crohn's disease, and chronic lymphocytic leukemia. Alternative splicing results in multiple variants. [provided by RefSeq, Aug 2016]