

Product datasheet for **RC239485**

SP140 (NM_001278453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP140 (NM_001278453) 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:

>RC239485 representing NM_001278453
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAGCAGGGCCAGCAGGGCCAGATGGCAAGTGGAGACAGCAATCTCAACTTCAGGATGGTCCGAC
AGATCCAGAACGTAGAGGGTCAGAACCTGCAGGAGCAGGTTGCCCTGAGCCATTTTCAGGTTCTTCAG
AGAAAAACAAGGTGGAGATTGCAAGTGAATAACAAGGCCATTTCTTTCTTATGGGCTCCGAGACCGC
TCCTTCATCTCCGAGCAGATGTATGAACATTTTCAAGAAGCTTTTAGAACTGGTCCCAGTGACAAGAG
TGATGTATTGTACTCAGTGAAGTGGAGAAGACATTTGGCTGGTACATCTGGAAGCATTGTTCCAGCAG
GATTAACCTGATGGCCTATCCTGATTTAAACGAGATTTACAGAAGCTTCCAGAATGTATGCTATGAACAC
TCACCTCTCCAAATGAATAATGTAACGATTTAGAAGATAGACCCAGATTACTACCATATGGTAAACAAG
AGAACAGCAATGCCTGTCATGAAATGGATGATATAGCAGTGCCTCAGGAAGCCTTGAGCTCCTCGCCAAG
GTGTGAGCCAGGTTTCTTTCAGAGTCTTGTGAGCAGTTAGCTCTCCAAAGGCTGGTGGAGGAGATGCT
GAAGATGCACCCAGCCTACTACCAAGTGTCTGTAACCTGCTATACAAATAGATGAAGGAGAATCAGAAG
AAATGCCCAAGTTACTGCCTTATGATACAGAAGAGACCTTTGATCTAAAACTCCCAAGTCACTAATGA
AGGAGAACCAGAGAAGGGGCTCTGTCTACTACCAGGTGAAGGAGAAGAGGGCAGTGGTACTGTTCCGAA
ATGTGTGATGGAGAAGAGCGCCAGGAAGCCTCTAGCTCCCTAGCAAGACGTGGGTGAGTGTCTAGTGAAC
TAGAAAATCACCAATGAATGAAGAAGGAGAATCAGAAGAGCTTGCTTCTAGCCTGCTATATGATAATGT
ACCAGGAGCGGAGCAATCAGCATATGAAAATGAGAAGTGTTCCTGTGTCATGTGTTTCTCAGAAGAGGTG
CCAGGAAGCCCAGAAGCAAGGACGGAAGTGTCAAGCGTGTGCCACAATGGATACTGTGGATATTGCAA
ACAACTCCACTTTGGGAAAACCCAAGAGGAAAAGAAGAAAAAGAGGGGGCATGGTGGAGCAGAATGAG
AATGAGAAGGCAGGAAAACAGCCAACAAAATGATAATAGCAAAGCCGACGCCAGGTGGTCTCCAGTGAA
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GCTTCACTCAGAGTGACAGAGCTGCACAGAAAAGAGTCCGATCAAGAGCTTCAAGAAAGCACAAGATGA
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AAATTGCAGCAAGGAATCTTGGTGAAGTGTATACAGACTGAGGATGGAAAATGGTTCACCCACCGAAT
TTGAAATCAAAGGAGGCCATGCAAGATCAAAGAAGTGGAGGCTGAGTGTGCGCTGTGGCGGTGGCCCT
ACGATGGCTGATGGAGAATGGATTTCTGCCTGATCCTCCAAGAATACGTTACAGGAAAAAAGAGAATA
CTGAAGTCTCAAACAATAGCTCAGTTGACCTTGTATGAGAACTGGATGAGTGTGAGGTGTGCCGGG
ACGGAGGGGAGCTGTTCTGTTGCGACACTTGTCAAGAGTCTCCATGAGGACTGTCACATCCCGCTGT
GGAAGCTGAGAGGACCCCGTGAATTCATCTTCTGCAGGATGAAGGAGTCTCCGGGAAGCCAACAGTGT
TGTGAGGAATCTGAGGTCTGGAGAGGCAGATGTGCTCCTGAGGAACAGTTGAAATGTGAGTTCCTCTCT
TGAAAGTCTATTGCTGTTCTGAGAGCTCCTTTTTGCCAAGATTCATACTATTATTATATTAGAGAGGC
GTGTCAAGGCCTGAAGGAGCCATGTGGTTGGATAAAATCAAGAAAAGGCTGAATGAGCACGGTTACCCC
CAAGTGGAGGGGTTTGTACAAGACATGCGCCTCATCTTCCAGAACCACAGGGCCTTACAAGTACAAGG
ATTTTGGCCAAATGGGATTTAGACTGGAGGCTGAGTTTGAGAAGAATTTCAAGGAAGTGTGCTATTCA
GGAAACAATGGGAACAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239485 representing NM_001278453
 Red=Cloning site Green=Tags(s)

MAQQGQQQMASGDSNLNFRMVAEIQNVEGQNLQEVCPEPIFRFFRENKVEIASAITRPFPFMLGLRDR
 SFISEQMYEHFQEAFRNLVPVTRVMYCVLSELEKTFGWSHLEALFSRINLMAYPDLNEIYRSFQNVCYEH
 SPLQMNNVNDLEDRPRLLPYQKQENSACHEMDDI AVPQEALSSSPRCEPGFSSSECEQLALPKAGGGDA
 EDAPSLLPVSCKLAIQIDEGESEEMPKLLPYDTEETFDLKTPQVTNEGEPEKGLCLLPGEGEEGSDDCSE
 MCDGEEERQEASSSLARRGSVSSELENHPMNEEGESEELASSLLYDNVPGAEQSAYENEKCSVMCFSEEV
 PGSPARTESDQACGTMDTVDIANNSTLGPKRKRKRKRGHGWSRMRMRQENSQNDNSKADGQVVSSE
 KKANVNLKDLKIRGRKRGKPGTRFTQSDRAAQKRVRSRARKHKDETVDFKAPLLPVTGCGVKGILHKK
 KLQQGILVKCIQTEDGKWFPTFEFEIKGGHARSKNWRLSVRCGGWPLRWLMENGFLLPDPPIRYRKKKRI
 LKSNSSVDPCMRNLDECEVCRDGGELFCCDTCRVFHEDCHIPPEAERTPWNCIFCRMKESPGSQQC
 CQSEVLERQMCPEQLKCEFLLLKVVCCSESSFFAKIPYYYYI REACQGLKEPMWLDKIKKRLNEHGYP
 QVEGFVQDMRLIFQNHRSYKYKDFGQMGFRLEAEFEKNFKEVFAIQETNGNN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

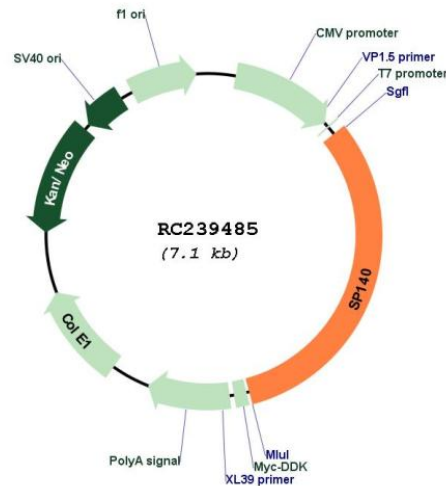
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001278453

ORF Size: 2259 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_001278453.2](#)

RefSeq Size: 2928 bp

RefSeq ORF: 2262 bp

Locus ID: 11262

UniProt ID: [Q13342](#)

Cytogenetics: 2q37.1

Protein Families: Druggable Genome, Transcription Factors

MW: 86.5 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]