

## Product datasheet for **MR229944**

### Sp110 (NM\_030194) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp110 (NM_030194) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp110
Synonyms:	52kDa; 5031415C07Rik; 5830484A20Rik; ENSMUSG00000075603; lfi75; lpr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR229944 representing NM\_030194  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCACTCTGACCAAAGCCTTGAAAAGGCTCTTCTCCAGCATTTTCATATACATGAAGGTGAACATCG  
 CCTATGCCATCAACAAGCCATTCCCTTCTTTCGAAGCGCTCCGGGACAATTCCTTCATCACTGAGAGAAT  
 GTACAAGGAATCTCTGGAAGCCTGTCAAATCTGGTCCCTCTGTCCAAAGTGGTGACAATATTCTCACC  
 AGTCTGGAGCAGACTTTCCACCCGTCACTGCTGCTGACGTTGTTTCAGCAAGGTCAACCTCCGGGAATACC  
 CCAGCCTGGTGGCAATTTTCAGAAGCTTCAGAAACGTTGGTTATACCTACGAAGAGAAAAACAGACCCCC  
 ACTGACCTGCTGAAGACCTGGCAACCCAGCAGAAAGGGTGTCCCTTCAGACACTGCTGCCACCACCC  
 CGACCCAGATATCGCTGCCAAGTCATCTGTCTCAGCACCGAGAGTCTGTGACCCAGAGCAACCCGCAC  
 AGCCAATCATTGAGATCCTGGATGAGCAGCCCAGTCTTCTCCCGAGCTGTGCCCTCCTTGGCTGCAT  
 TCAGGAAGGAAAAACCACTCCAGTGTCTCCAGAGATCACCAGAGAAAAGATAAGGAAGACTCTCGAGAG  
 ATGCCCCACAGTCCCTCAGGACCCGAGTCAAGTGTAAAAGATGACTCTCCAGCAGCAAATGACCTGGAAA  
 TGGCCAGGGAAGTACCCTGCACACCTGCAAAACAAGAAAGCAAGAAAGAAAAAACGTCGAACTGGTCAAA  
 TTCCAAAAGAAGACGGCAGAAAAAAGCCCGTCAAGATGAGATGATGGGAGTGGCCTCACCTGGACAT  
 GGAGTTCAAGAGAAGCTCAAGGCAGTGAGCAGGAGGACTTTGTGGAAAGATGACTCATCTACGAACGTGA  
 AGGAGGTGACCAAGACACAGAGAACAAGGATGAGGCGTGGCCAGACATCCAATTCACAAGAGATCAGCAA  
 AGAGGCATCAAAAACAAGTGGTAGAAAGAGGCCACACAGCAGCAAGAACCAACAAGTCCAGAGAAG  
 ACCAAGAATGACGCTGTGGATTTCTCTCCACACTCCCTGTGACCTGTGGTAAGGCCAAAGGACTTTGT  
 TCCAAGAGAACTGAAGCAAGGAGCCTCAAAAAGTGCATTGAGATGAGGCAGGAGATGGCTCACTGT  
 AAAGGAATTTTTAAATGAAGGGGGAAGGCCACATCAAAAGACTGGAAGGGCGTTATACGTTGTAACGGG  
 GAGACATTAAGACATCTGGAGCAGAAAGGACTTTTGTCTTTACCTCAAGAGTAAACCTCAAAAGAAGG  
 GTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229944 representing NM\_030194  
 Red=Cloning site Green=Tags(s)

MFTLTKALEKALLQHF IYMKVNIAYAINKPF PPF EALRDN SFITRMYKESLEACQNLVPLSKV VVHNILT  
 SLEQTFHPSVLLTLFSKVNLR EYPSLV AIFRSFRNVGYTYE EKNRPPLT LLEDLANPAEGCSLQTLLPPP  
 RPQISLPSHLSSAPRVCDPRATAQPIIEILDEQSPSPRAVPLLGCIQEGKTPVSSRDHQKDKEDSRE  
 MPHSPSGPESVVKDDSPAANDLEMAREVPCTPANKKARRKKRPNWSNSKRRRQKKKPRQDEM MGVASPGH  
 GVQEKLKAVSRRTLWKDDSS TNVKEVTKQRTMRRAQTSNSQEI SKEASKTSGRKR PSTARRTTQVPEK  
 TKNDVDF SPTLPVTCGKAKGTLFQEKLKQGASKKCIQNEAGDWLTVKEFLNEGGRATSKDWKGVIRCNG  
 ETLRHLEQKGLLFFTSKSKPQKKA

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

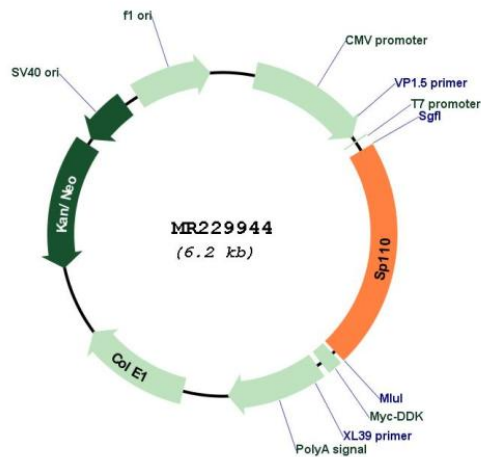
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_030194

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\\_030194.1](#), [NP\\_084470.1](#)

**RefSeq Size:** 1921 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 109032

**UniProt ID:** [Q8BVK9](#)

**Cytogenetics:** 1 C5

**MW:** 50.6 kDa

**Gene Summary:** May act as a transcription factor. Plays a role in the innate immunity against intracellular pathogens. Required for resistance to M.tuberculosis and L.monocytogenes. Promotes apoptosis of infected cells.[UniProtKB/Swiss-Prot Function]