

## Product datasheet for **MR207102**

### Sp110 (NM\_175397) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp110 (NM_175397) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp110
Synonyms:	52kDa; 5031415C07Rik; 5830484A20Rik; ENSMUSG00000075603; lfi75; lpr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207102 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCACTCTGACCAAAGCCTTGAAAAGGCTCTTCTCCAGCATTTTCATATACATGAAGGTGAACATCG  
 CCTATGCCATCAACAAGCCATTCCCTTCTTTCGAAGCGCTCCGGGACAATTCCTTCATCACTGAGAGAAT  
 GTACAAGGAATCTCTGGAAGCCTGTCAAATCTGGTCCCTCTGTCCAAAGTGGTGACAATATTCTCACC  
 AGTCTGGAGCAGACTTTCCACCCGTGAGTCTGCTGACGTTGTTTCAGCAAGGTCAACCTCCGGGAATACC  
 CCAGCCTGGTGGCAATTTTCAGAAGCTTCAGAAACGTTGGTTATACCTACGAAGAGAAAAACAGACCCCC  
 ACTGACCTGCTGAAGACCTGGCAACCCAGCAGAAGGGTGCTCCCTTCAGACACTGCTGCCACCACC  
 CGACCCAGATATCGCTGCCAAGTCATCTGTCTCAGCACCGAGAGTCTGTGACCCAGAGCAACCCGAC  
 AGCCAATCATTGAGATCCTGGATGAGCAGCCCAGTCTTCTCCCCGAGCTGTGCCCTCCTTGGCTGCAT  
 TCAGGAAGGAAAAACCACTCCAGTGTCTCCAGAGATCACCAGAGAAAAGATAAGGAAGACTCTCGAGAG  
 ATGCCCCACAGTCCCTCAGGACCCGAGTCAAGTAAAAGATGACTCTCCAGCAGCAAATGACCTGGAAA  
 TGGCCAGGGAAGTACCCTGCACACCTGCAACAAGAAAAGCAAGAAGAAAAAACGTCGAACTGGTCAAA  
 TTCCAAAAGAAGACGGCAGAAAAAAGCCCCGTCAAGATGAGATGATGGGAGTGGCCTCACCTGGACAT  
 GGAGTTCAAGAGAAGCTCAAGGCAGTGAGCAGGAGGACTTTGTGGAAAGATGACTCATCTACGAACGTGA  
 AGGAGGTGACCAAGACACAGAGAACAAGGATGAGGCGTGCCAGACATCCAATTCACAAGAGATCAGCAA  
 AGAGGCATCAAAAACAAGTGGTAGAAAGAGGCCAGCACAGCAGCAAGAACCAACAAGTCCAGAGAAG  
 ACCAAGAATGACGCTGTGGATTTCTCTCCACACTCCCTGTGACCTGTGGTAAGGCCAAAGGACTTTGT  
 TCCAAGAGAAAACGAAGCAAGGAGCCTCAAAAAGTGCATTCAGAATGAGGCAGGAGATGGCTCACTGT  
 AAAGGAATTTTTAAATGAAGGGGGAAGGCCACATCAAAAAGACTGGAAGGGCGTTATACGTTGTAACGGG  
 GAGACATTAAGACATCTGGAGCAGAAAGGACTTTTGTCTTTACCTCAAGAGTAAACCTCAAAAAGAGG  
 GTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207102 protein sequence  
 Red=Cloning site Green=Tags(s)

MFTLTKALEKALLQHFIYMKVNIAYAINKPFPPFEALRDNSFITERMYKESLEACQNLVPLSKVVHNIILT  
 SLEQTFHPSVLLTLFSKVNLRYPVSLVAIFRSFRNVGYTYEENRPPPLTLEDLANPAEGCSLQTLPPP  
 RPQISLPSHLSSAPRVCDPRATAQPIIEILDEQSPSPRAVPLLGCIQEGKTPVSSRDHQRKDKEDSRE  
 MPHSPSGPESVVKDDSPAANDLEMAREVPCTPANKKARRKRPNWSNSKRRRQKKKPRQDEMMPVSPGH  
 GVQEKLKAVSRRTLWKDDSTNVKEVTKQTRMRRAQTSNSQEISKEASKTSGRKRPTARRTTQVPEK  
 TKNDVDFSPVTLVPTCGKAKGTLFQEKLKQGASKKCIQNEAGDWLTVKEFLNEGGRATSKDWKGVIRCNG  
 ETLRHLEQKGLLFFTSKSKPQKKA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_175397

**ORF Size:** 1338 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\\_175397.4](#), [NP\\_780606.3](#)
**RefSeq Size:** 1947 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 109032

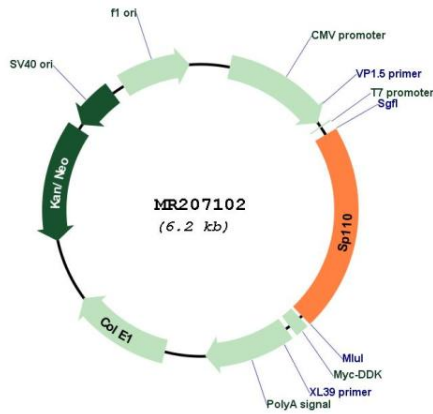
**UniProt ID:** [Q8BVK9](#)

**Cytogenetics:** 1 C5

**MW:** 50.1 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]

**Product images:**



Circular map for MR207102