

Product datasheet for **RR208749**

Sp110 (NM_001034137) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp110 (NM_001034137) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp110
Synonyms:	MGC124651
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR208749 representing NM_001034137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTCCACCTGACCAAGGCCTTGAAAAGGCTCTTCTCAGCATTTCATATACACGAAGCTGGACATCG
 CCTATGCCATCAACAAGCCGTTCCCTTTTGAAGCACTCCGAGACAATTCCTTCATCACTGAGCGAAT
 GTACAAGGAATCTCTGGAAGCCTGTCAAATCTGGTCCCTCTATCCAAAGTGGTGACAATATTCTCACC
 AGTCTGGAGCAGACTTTGACCCATCGATGCTGCTGATATTGTTGAGCAAGTCAACCTACGGGAATACC
 CCAGTCTGGGGCAATTTGTAGAAGCTTCAGAAATGTTGGCAATGCCTATGAAGGGAGAAACAGACCCGC
 ACCAACCTACTTGGAGCCTCAACCAACCAGCAGAAGGGTGTCTCTTCAGACTCTGCTGCCACAGCCC
 CGATCCCAGGCATTGCCACCAAGTCATCTGTCTCTGGACTGAGAATCCGTGACCCCGGAACAACCTCAC
 TGCAAATCACTGAGATCCTGGATGAGCAGCCAGCCCTCCACCCAGCTGCTCCTCTCCCTGGCTACAT
 TCGGGAAGGAAAACCACTCCAGTGTCTCAAGAGATCACCAGAGAAAAGATAAGGAAGACTCTCAAGAG
 ATGCCCCACCATCCCTCAGGACCCGAAGCAGTTGTCAAAGACATCTTAACATCCAAGACTAACAATCGAG
 ATGACTCAGGAGCACAGCCTCCGGTTCCTGGCACCATGCATGTGGTTCAAGATAATTCTCCAGCACC
 AAATGACCCGGAAGTGCCCGAGGAAGCTCCCTGCACACCTGCAACAAGAAAAGCAAGAAAAAGAAAAAGT
 TGCATCTGGTCAAATCCAAAAGAAGACGGCAGAAAAAAGCCCTCAACATAAGATGATGGGAGTGG
 CCTCACCTGGACCTGGAGTTCAGGAGAAGCTCAAGGTGGTGGGGCAGAGGACTCTGAATCAGGATGACTC
 AACTAGGAACGTGAAGGTAGTGACCAGGACTCTGAGGGAAAGGACTCGCTGTGCCAGACATCCAGTTCT
 CAAGAGATCAGCAAGGAAGCATCAAACCAAGGGCTAGAAGAGGCTCAGAAGAGGCCACACAGCAG
 GAAGAACCATACACGTTCCAGAAAAGTCCAAGGACGATGCTGTGGATTTCTCTCTCACTCTCTGT
 GACCTGTGGTGAGGCCAGAGGGACTTTGTTCAAAGAGAACTGAAGCAAGGATCCTCAGAAAAGTGCATT
 CAGAATGAGGCGGGAGCTTGGCTGACTGTAAAGGAGTTTTTAAAGAAAGGGGAAAGGCCACGTCAAAG
 ATTGGAAGAAAGCTATCCGTTGTAACAAGAAGACATTAAGAAGTCTGGAGCAGGATGGATTTTTGTCTG
 TACTTCCAAAAGTAAGCCTCAAAAAGAGTGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208749 representing NM_001034137
 Red=Cloning site Green=Tags(s)

MFTLTKALEKALLQHFIYTKLDIAYAINKPFPPFEALRDNSFITERMYKESLEACQNLVPLSKVVHNI
 LT SLEQTFDPSMLLILFSKVNLRREYPSLGAICRSFRNVGNAYEGRNRPAPTLGASTNPAEGCSFQTL
 LPQ RSQALPPSHLSSGLRIRDPGTTSLQITEILDEQSPSPHPAAPLPYIREGKTPVSSRDHQRKDKEDS
 QE MPHHPSPGPEAVVKDILSKTNNRDDSQAQPPGSPGTMHVVDNSPAPNDPEVPQEA
 PCTPANKKARKRKS CIWSNSKRRRQKKPPQHKKMMGVASPGVQEKLVVGGQRTL
 NQDDSTRNVKVVTRTLRERTRCAQTSSS QEISKEASKPRARKRPQKRPHTAGRTI
 HVPEKSKDDAVDFLSPTLSVTCGEARGTLFKEKLKQGSSEKCI QNEAGAWLTVKEFL
 KKGKATSKDWKKAIRCNKTLRSLEQDGLFCTSKSKPQKECD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

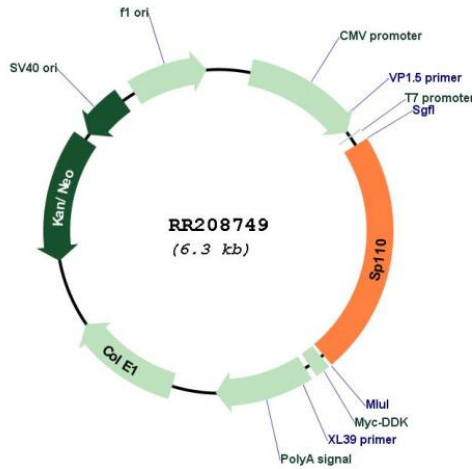
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001034137

ORF Size:

1434 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_001034137.1](#), [NP_001029309.1](#)

RefSeq Size: 1783 bp

RefSeq ORF: 1437 bp

Locus ID: 301570

UniProt ID: [Q3KRF1](#)

Cytogenetics: 9q35

MW: 53.2 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 (By similarity).[UniProtKB/Swiss-Prot Function]