

## Product datasheet for MR221850

### Spn (NM\_001037810) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spn (NM\_001037810) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Spn  
**Synonyms:** A630014B01Rik; Cd43; Galgp; Ly-48; Ly48  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR221850 representing NM\_001037810  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCTTGCACCTTCTCCTCCTCTTTGGGGCATGCTGGGTCCAGGTGGCGAGCCCAGACAGTCTGCAGA  
GGACGACGATGCTACCATCTACCCACATATCACAGCTCCAAGTACCTCTGAAGCCAGAATGCCAGCCC  
ATCAGTTTCTGTGGGTGAGGGACAGTGGACTCGAAGGAGACCATCAGCCCTGGGGCAGACCACAATC  
CCAGTTTCTTTGACCCCTTGGAACTACTGAATTGTCTTCTTTGGAGACTTCTGCTGGTCCAGCATGA  
GCACCCCTGTACCTGAGCCTACTGCCTCTCAGGAAGTTTCCAGCAAGACATCAGCACTGCTCCAGAACC  
ATCAAATGTAGCCAGTGACCCTCCTGTCAGTGCAGCCAACTCCTGTGACAGACGGACTGCAGCCAACTCT  
GTGACAGACGGAACTGCAGCATCTACATCTATCTCTAAAGGAACCAAGTGCACCCCCACCACTGTGACAA  
CAAGCTCTAACGAGACCAGTGGACCCTCTGTGGCTACAACAGTAAGTCCAAGACCAGTGGTCCCCCTGT  
CACCACAGCTACTGGGTCTCTGGGGCCCTCGAGTGAGATGCATGGACTCCCTGCTACCACAGCAACCAGT  
TCTGTGGAGAGTTCAGTGTGGCCCGTGGCACCTCAGTTTCCAGCAGAAAAACATCCACGACGTCTACCC  
AAGATCCCATAACCACCAGGTACCAAGCCAAGAATCAAGTGGCATGTTACTGGTGGCCATGCTTATTGC  
CTTGGTGGTGGTTTTGGCCCTCGTGGCGCTACTGCTGTGTGGCGCCAGAGGCAAAAGCGGAGGACTGGG  
GCCCTGACCCTGAGCGGAGGAGAAAACGAAATGGGGTGGTGGATGCCTGGGCTGGGCCAGCCGGGTTCC  
CTGATGAAGAGGCCACAACCACATCAGGGGCAGGGGCAACAAGGCTCTGAGGTACTGGAGACAGAAGG  
CTCCGGGCAGAGACCCACGCTCACTACGTTCTTACGACAGACGGAAGTCTCGCCAGGGCTCTTTAGTACTA  
GAAGAGCTGAAGCCTGGGTGGGTCCCAACCTGAAGGGGGAGGAAGAGCCGCTTGTGGGAGTGAGGATG  
AAGCTGTGAAACCCCAACTTCTGACGTTCCACAAGCCAAAGATGAGGCCGACCTCAATCTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001037810.2](#), [NP\\_001032899.1](#)

**RefSeq Size:** 1475 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 20737

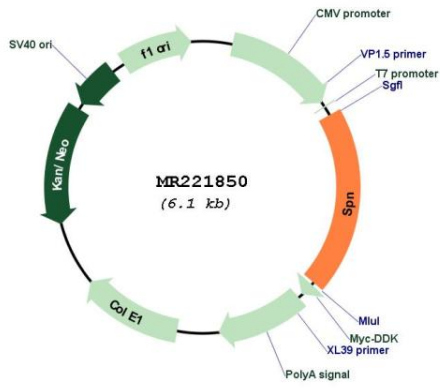
**UniProt ID:** [P15702](#)

**Cytogenetics:** 7 69.35 cM

**MW:** 40.5 kDa

**Gene Summary:** Predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (PubMed:17638845, PubMed:21289089, PubMed:11728336). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment (PubMed:18490738). Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma by CD4(+) T-cells and to a lesser extent by CD8(+) T-cells. Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR (By similarity). Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E-selectin (PubMed:26700769). Acts as a T-cell counter-receptor for SIGLEC1 (PubMed:11238599).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221850