

## Product datasheet for MC227471

### Spn (NM\_009259) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spn (NM\_009259) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Spn  
**Synonyms:** A630014B01Rik; Cd43; Galgp; Ly-48; Ly48  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227471 representing NM\_009259  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCTTGCACCTTCTCCTCCTTTGGGGCATGCTGGGTCCAGGTGGCGAGCCAGACAGTCTGCAGA  
 GGACGACGATGCTACCATCTACCCACATATCACAGCTCCAAGTACCTCTGAAGCCAGAATGCCAGCCC  
 ATCAGTTTCTGTGGGGTACAGGACAGTGGACTCGAAGGAGACCATCAGCCCTGGGGGCAGACCACAATC  
 CCAGTTTCTTTGACCCCTTGGAACTACTGAATTGTCTTTGGAGACTTCTGCTGGTCCAGCATGA  
 GCACCCCTGTACCTGAGCCTACTGCCTCTCAGGAAGTTTCCAGCAAGACATCAGCACTGCTTCCAGAACC  
 ATCAAATGTAGCCAGTGACCCCTCTGCTACTGCAGCCAATCCTGTGACAGACGGACCTGCAGCCAATCCT  
 GTGACAGACGGAAGTGCAGCATCTACATCTATCTCTAAAGGAACCAAGTGCACCCCACTGTGACAA  
 CAAGCTCTAACGAGACAGTGGACCTCTGTGGCTACAACAGTAAGTCCAAGACCAAGTGGTCCCCTGT  
 CACCACAGCTACTGGGTCTCTGGGGCCCTCGAGTGAGATGCATGGACTCCCTGCTACCACAGCAACCAGT  
 TCTGTGGAGAGTCCAGTGTGGCCCGTGGCACCTCAGTTTCCAGCAGAAAAACATCCACGACGCTACCC  
 AAGATCCATAAACCACAGGTACCAAGCCAAGAATCAAGTGGCATGTTACTGGTCCCAATGCTTATTGC  
 CTTGGTGGTGGTTTTGGCCCTCGTGGCGCTACTGCTGTTGTGGCCAGAGGCAAAAGCGGAGGACTGGG  
 GCCCTGACCCCTGAGCGGAGGAGGAAAACGAAATGGGGTGGTGGATGCCTGGGCTGGGCCAGCCCGGTTT  
 CTGATGAAGAGGCCACAACCACATCAGGGGCAGGGGCAACAAGGGCTCTGAGGACTGGAGACAGAAGG  
 CTCCGGGCAGAGACCCACGCTCACTACGTTCTTTCAGCAGACGGAAGTCTCGCCAGGGCTCTTTAGTACTA  
 GAAGAGCTGAAGCCTGGGTGGGTCCCAACCTGAAGGGGGAGGAAGAGCCGCTTGTGGGCAGTGAGGATG  
 AAGCTGTGGAACCCCAACTTCTGACGGTCCACAAGCCAAGATGAGGCCGACCTCAATCTCTA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_009259
<b>Insert Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_009259.5</a></u> , <u><a href="#">NP_033285.1</a></u>
<b>RefSeq Size:</b>	3751 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	20737
<b>UniProt ID:</b>	<u><a href="#">P15702</a></u>
<b>Cytogenetics:</b>	7 69.35 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein.</p>