

Product datasheet for **MC209451**

Spn (NM_001037810) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spn (NM_001037810) 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: >MC209451 representing NM_001037810
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCCTTGCACCTTCTCCTCTTTGGGGCATGCTGGGTCCAGGTGGCGAGCCAGACAGTCTGCAGAG
 GGACGACGATGCTACCATCTACCCACATATCACAGCTCCAAGTACCTCTGAAGCCAGAATGCCAGCCC
 ATCAGTTTCTGTGGGGTACAGGACAGTGGACTCGAAGGAGACCATCAGCCCTGGGGCAGACCACAATC
 CCAGTTTCTTTGACCCCTTGGAACTACTGAATTGTCTTTGGAGACTTCTGCTGGTCCAGCATGA
 GCACCCCTGTACCTGAGCCTACTGCCTCTCAGGAAGTTTCCAGCAAGACATCAGCACTGCTTCCAGAACC
 ATCAAATGTAGCCAGTGACCCTCTGCTACTGCAGCCAATCCTGTGACAGACGGACTGCAGCCAATCCT
 GTGACAGACGGAAGTGCAGCATCTACATCTATCTCTAAAGGAACCAAGTGCACCCCACTGTGACAA
 CAAGCTCTAACGAGACAGTGGACCCTCTGTGGCTACAACAGTAAGTCCAAGACCAAGTGGTCCCCTGT
 CACCACAGCTACTGGGTCTCTGGGGCCCTCGAGTGAGATGCATGGACTCCCTGCTACCACAGCAACCAGT
 TCTGTGGAGAGTCCAGTGTGGCCGTGGCACCTCAGTTTCCAGCAGAAAAACATCCACGACGCTACCC
 AAGATCCATAAACCACAGGTCAACAAGCAAGAATCAAGTGGCATGTTACTGGTCCCAATGCTTATTGC
 CTTGGTGGTGGTTTGGCCCTCGTGCGCTACTGCTGTTGTGGCCAGAGGCAAAAGCGGAGGACTGGG
 GCCCTGACCCTGAGCGGAGGAGGAAAACGAAATGGGGTGGTGGATGCCTGGGCTGGGCCAGCCCGGTTT
 CTGATGAAGAGGCCACAACCACATCAGGGGAGGGGGCAACAAGGGCTCTGAGGACTGGAGACAGAAGG
 CTCCGGGAGAGACCCACGCTCACTACGTTCTTTCAGCAGACGGAAGTCTCGCCAGGGCTCTTTAGTACTA
 GAAGAGCTGAAGCCTGGTGGTCCCAACCTGAAGGGGAGGAAGAGCCGCTTGTGGGCAGTGAGGATG
 AAGCTGTGAAACCCCAACTTCTGACGGTCCACAAGCCAAAGATGAGGCCACCTCAATCTCTA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001037810
Insert Size:	1188 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_001037810.2</u> , <u>NP_001032899.1</u>
RefSeq Size:	1481 bp
RefSeq ORF:	1188 bp
Locus ID:	20737
UniProt ID:	<u>P15702</u>
Cytogenetics:	7 69.35 cM
Gene Summary:	<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 (2) differs in the 3' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>