

Product datasheet for **MG221850**

Spn (NM_001037810) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spn (NM_001037810) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Spn
Synonyms: A630014B01Rik; Cd43; Galgp; Ly-48; Ly48
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221850 representing NM_001037810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTTGCACCTTCTCCTCCTCTTTGGGGCATGCTGGGTCCAGGTGGCGAGCCAGACAGTCTGCAGA
 GGACGACGATGCTACCATCTACCCACATATCACAGCTCCAAGTACCTCTGAAGCCAGAATGCCAGCCC
 ATCAGTTTCTGTGGGTGAGGGACAGTGGACTCGAAGGAGACCATCAGCCCTGGGGCAGACCACAATC
 CCAGTTTCTTTGACCCCTTGGAACTACTGAATTGTCTTCTTTGGAGACTTCTGCTGGTCCAGCATGA
 GCACCCCTGTACCTGAGCCTACTGCCTCTCAGGAAGTTTCCAGCAAGACATCAGCACTGCTCCAGAACC
 ATCAAATGTAGCCAGTGACCCCTCTGCTACTGCAGCCAATCCTGTGACAGACGGACTGCAGCCAATCCT
 GTGACAGACGGAAGTGCAGCATCTACATCTATCTCTAAAGGAACCAAGTGCACCCCCACCACTGTGACAA
 CAAGCTCTAACGAGACCAGTGGACCCTCTGTGGCTACAACAGTAAGTCCAAGACCAGTGGTCCCCCTGT
 CACCACAGCTACTGGGTCTCTGGGGCCCTCGAGTGAGATGCATGGACTCCCTGCTACCACAGCAACCAGT
 TCTGTGGAGAGTTCAGTGTGGCCCGTGGCACCTCAGTTTCCAGCAGAAAAACATCCACGACGTCTACCC
 AAGATCCCATAACCACCAGGTACCAAGCCAAGAATCAAGTGGCATGTTACTGGTGGCCATGCTTATTGC
 CTTGGTGGTGGTTTTGGCCCTCGTGGCGCTACTGCTGTTGTGGCGCCAGAGGCAAAAGCGGAGGACTGGG
 GCCCTGACCCTGAGCGGAGGAGAAAACGAAATGGGGTGGTGGATGCCTGGCTGGCCAGCCCGGGTTC
 CTGATGAAGAGGCCACAACCACATCAGGGGCAGGGGCAACAAGGCTCTGAGGTACTGGAGACAGAAGG
 CTCCGGGCAGAGACCCACGCTCACTACGTTCTTACGACAGACGGAAGTCTCGCCAGGGCTCTTTAGTACTA
 GAAGAGCTGAAGCCTGGGTGGGTCCCAACCTGAAGGGGGAGGAAGAGCCGCTTGTGGGCAGTGAGGATG
 AAGCTGTGAAACCCCAACTTCTGACGTTCCACAAGCCAAGATGAGGCCGCACCTCAATCTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221850 representing NM_001037810
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MALHLLLLFGACWVQVSPDSLQRTTMLPSTPHITAPSTSEAQNASPSVSVGSGTVDSKETISPWGQTTI
 PVSLTPLETTELSSLETSAGASMSTPVPEPTASQEVSSKTSALLPEPSNVASDPPVTAANPVTGPAANP
 VTDGTAASTSISKGTSAPPTT⁺VTTSSNETSGPSVATTVSSKTS⁺SGPPVTTATGSLGPSSEMHLPTATT
 SVES⁺SSVARGTSVSSRKTSTTSTQDPIITRSPSQESSGMLLVPLIALVVVLLALVALLLLWRQRKRRTG
 ALTLSGGKRN⁺GVVD⁺AWAGPARVPDEEATTTSGAGGNK⁺GSEVLETEGSGQRPTLT⁺TTFFSR⁺RKSRQ⁺GS⁺LV
 EELKPGSGPNLK⁺GEEELV⁺GSEDEAVETPTSDGPQAKDEAAPQSL

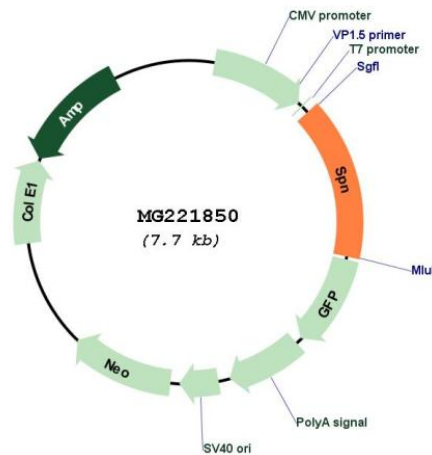
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037810

ORF Size:	1185 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:	<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:	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
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]