

Product datasheet for MR204867

Spon2 (NM_133903) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spon2 (NM_133903) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spon2
Synonyms:	2310045I24Rik; AI504350; M-spondin; Mindin; Mspondin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204867 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAACCTTGAGTCTTGCCCTGGGCAGAGCTCTTTGGGTCTTCTCCTGGCCATGATAGGCTCCACCA
CGAGCCAGCCGCTGGGGGAGAATCGGTTTGTACAGCCCGCCTCTGGCTAGATACAGCATCACTTTCAT
TGGCAAGTGGAGCCAGACAGCATTCCCAAGCAGTACCCCTGTCCGGCCCCGTCACAGTGGTCTCT
CTGCTGGGGCAGCTCACAGCTGACTACAGCATGTGGCGGAAGAATGAGTATGTCAGCAATGGGCTGA
GGGACTTTGCTGAGCGTGGTGGCCCTGGGCACTGATGAAGGAGATCGAAGCTGCAGGAGAGAACTTCA
GAGTGTGCACGCAGTGTCTCAGCTCCTGCCATCCCTAGCGGTACCGGGCAGACTTCCACAGAGTTAGAG
GTGCACCCTAGGCACTCGCTGGTGTCTTCGTGGTACGCATTGTCCCAGCCCTGACTGGTTTGTGGGCA
TCGACAGTCTGGACCTGTGTGAGGGAGGCCGCTGGAAGGAGCAGGTGGTCTGGATCTTTATCCACACGA
TGCAGGGACCGACAGTGGTTTCACCTTCTCCTCCCCTAACTTTGCAACTATCCACAAGACACAGTGACT
GAGATAACAGCCTCATCGCCAGCCACCCAGCAAATTCATTCTACTACCCAGCCTCAAGTCCTTACCTC
CCATCGCCAAAGTGACCTTCGTGCGGCTACAGCATAGTCCCAGGGCCTTTGCCACCTTCCCTGGACCT
GGCCAGCCGAGGCAACGAAATCGTTGACAGCCTTTCAGTTCAGAGACACCGCTGGACTGTGAGGTTTCC
CTGTGGTTCATCCTGGGGACTGTGTGGAGACCATGTGAAAGTTGGGAGCCAAGAGCAGAAGCTCGCTATG
TCCGTGTTACAGCTGCTAACAATGGGACTCCCTGTCCCAGCTTGAAGAAGAGGCCGAGTGTCCCCAGA
TAACTGCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204867 protein sequence
 Red=Cloning site Green=Tags(s)

MENLSLALGRALWVFLAMIGSTTSQPLGGESVCTARPLARYSITFIGKWSQTAFPKQYPLFRPPAQWSS
 LLGAAHSSDYSMWRKNEYVSNGLRDFAERGEAWALMKEIEAAGEKLSVHAVFSAPAIPSGTGQTSTELE
 VHPRHSLVSFVVRIVPSDFWVGIDSLDLCEGGRWKEQVVDLYPHDAGTDSGFTFSSPNFATIPQDVT
 EITASSPSHPANSFYPRKSLPPIAKVTFVRLQHSPPRAFAPPSLDLASRGNEIVDSLVPETPLDCEVS
 LWSSWGLCGGPCGKLGAKSRTRYVRVQPANNGTPCPELEEEAEACPDNCV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133903

ORF Size: 993 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_133903.1](#)

RefSeq Size: 2237 bp

RefSeq ORF: 993 bp

Locus ID: 100689

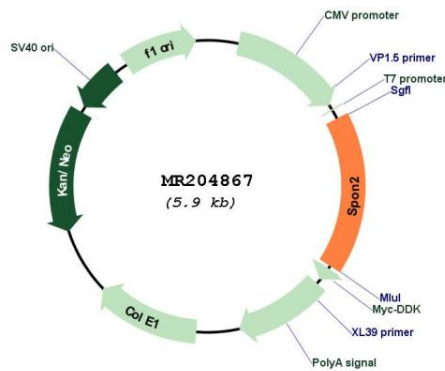
UniProt ID: [Q8BMS2](#)

Cytogenetics: 5 B1

MW: 36 kDa

Gene Summary: Cell adhesion protein that promotes adhesion and outgrowth of hippocampal embryonic neurons. Binds directly to bacteria and their components and functions as an opsonin for macrophage phagocytosis of bacteria. Binds bacterial lipopolysaccharide. Essential in the initiation of the innate immune response and represents a unique pattern-recognition molecule in the ECM for microbial pathogens.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204867