

Product datasheet for **MG204867**

Spon2 (NM_133903) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spon2 (NM_133903) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Spon2
Synonyms: 2310045I24Rik; AI504350; M-spondin; Mindin; Mspondin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204867 representing NM_133903
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAACTTGAGTCTTGCCCTGGGCAGAGCTCTTTGGGTCTTCTCCTGGCCATGATAGGCTCCACCA
 CGAGCCAGCCGCTGGGGGAGAATCGGTTTGTACAGCCCGCCTCTGGCTAGATACAGCATCACTTTCAT
 TGGCAAGTGGAGCCAGACAGCATTTCCAAGCAGTACCCCTGTCCGGCCCCCTGCACAGTGGTCTCT
 CTGCTGGGGCAGCTCACAGCTCTGACTACAGCATGTGGCGGAAGAATGAGTATGTCAGCAATGGGCTGA
 GGGACTTTGCTGAGCGTGGTGGCCTGGGCACTGATGAAGGAGATCGAAGCTGCAGGAGAGAACTTCA
 GAGTGTGCACGCAGTGTCTCAGCTCCTGCCATCCCTAGCGGTACCGGGCAGACTTCCACAGAGTTAGAG
 GTGCACCCTAGGCACTCGCTGGTGTCTTCGTGGTACGCATTGTCCCAGCCCTGACTGGTTTGTGGGCA
 TCGACAGTCTGGACCTGTGTGAGGGAGGCCGCTGGAAGGAGCAGGTGGTCTGGATCTTTATCCACACGA
 TGCAGGGACCGACAGTGGTTTCACCTTCTCCTCCCCTAACTTTGCAACTATCCACAAGACACAGTGACT
 GAGATAACAGCCTCATCGCCAGCCACCCAGCAAATTCATTCTACTACCCAGCCTCAAGTCCTTACCTC
 CCATCGCCAAAGTGACCTTCGTGCGGCTACAGCATAGTCCCAGGGCCTTTGCCACCTTCCCTGGACCT
 GGCCAGCCGAGGCAACGAAATCGTTGACAGCCTTTCAGTTCAGAGACACCGCTGGACTGTGAGGTTTCC
 CTGTGGTCATCCTGGGACTGTGTGGAGACCATGTGAAAGTTGGAGCCAAGAGCAGAAGCTCGCTATG
 TCCGTGTTACAGCTGCTAACAATGGGACTCCCTGTCCCAGCTTGAAGAAGAGGCCGAGTGTCCCCAGA
 TAACTGCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204867 representing NM_133903
 Red=Cloning site Green=Tags(s)

MENLSLALGRALWVFLAMIGSTTSQPLGGESVCTARPLARYSITFIGKWSQTAFPKQYPLFRPPAQWSS
 LLGAAHSSDYSMWRKNEYVSNGLRDFAERGEAWALMKEIEAAGEKLSVHAVFSAPAIPSGTGQTSTELE
 VHPRHSLVSVFVVRIVPSDFVVGIDSLDLCEGGRWKEQVVL DLYPHDAGTDSGFTFSSPNFATIPQDVT
 EITASSPSHPANSFYPRKSLPPIAKVTFVRLQHSRAFAPPSLDLASRGNEIVDSLVPETPLDCEVS
 LWSSWGLCGGPCKLGAKSRTYVVRVQPANNGTCPPELEEEAECPDNCV

TRTRPLE - GFP Tag - V

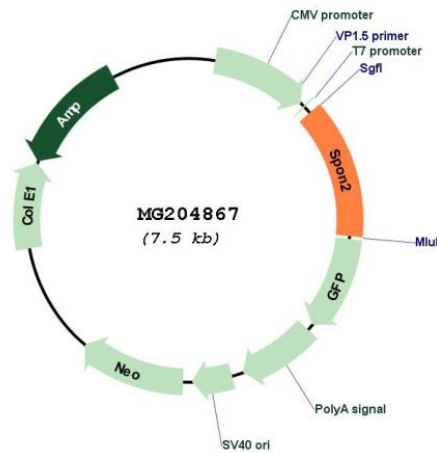
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133903

ORF Size: 990 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_133903.1
RefSeq Size:	2182 bp
RefSeq ORF:	993 bp
Locus ID:	100689
UniProt ID:	Q8BMS2
Cytogenetics:	5 B1
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]