

## Product datasheet for **RG218131**

### **SPON1 (NM\_006108) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SPON1 (NM_006108) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPON1
Synonyms:	f-spondin; VSGP/F-spondin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218131 representing NM\_006108  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCTGTCCCGCGCCCTGAAGCTGAGCCGGACTCCGGCACTGCTGGCCCTGGCGTGCCCTGG  
 CCGCGGCCCTGGCTTCTCCGACGAGACCCTGGACAAAGTGCCCAAGTCAGAGGGCTACTGCAGCCGTAT  
 CCTGCGCGCCAGGGCACGCGGCCGAGGGCTACACCGAGTTCAGCCTCCGCGTGGAGGGCGACCCCGAC  
 TTCTACAAGCCGGGAACAGCTACCGCGTAACACTTTCAGCTGCTCCTCCCTCTACTTCAGAGGATTCA  
 CATTAATTGCCCTCAGAGAGAACAGAGAGGGTGATAAGGAAGAAGACCATGCTGGGACCTTCAGATCAT  
 AGACGAAGAAGAACTCAGTTTATGAGCAATTGCCCTGTTGCAGTCACTGAAAGCACTCCACGGAGGAGG  
 ACCCGGATCCAGGTGTTTGGTAGCACCACAGCGGGAACAGGTGCGTGATTCTGAAGGCCAGCATCG  
 TACAAAAACGCATTATTTATTTTCAAGATGAGGGCTCTCTGACCAAGAACTTTGTGAACAAGATCCAC  
 ATTTGATGGGGTACTGACAAACCCATCTTAGACTGCTGTGCCTGCGGAACTGCCAAGTACAGACTCACA  
 TTTTATGGGAATTGGTCCGAGAAGACACACCCAAAGGATTACCCTCGTCGGGCCAACCACTGGTCTGCGA  
 TCATCGGAGGATCCCACTCCAAGAATTATGTAAGTGGGAATATGGAGGATATGCCAGCGAAGGCGTCAA  
 ACAAGTTGCAGAAATGGGCTCACCCGTGAAAATGGAGGAAGAAATTCGACAAACAGAGTGATGAGGTCCTC  
 ACCGTCATCAAAGCCAAAGCCAGTGGCCAGCCTGGCAGCCTCTCAACGTGAGAGCAGCACCTTCAGCTG  
 AATTTTCCGTGGACAGAACGCGCCATTTAATGTCTTCTGACCATGATGGGCCCTAGTCCCGACTGGAA  
 CGTAGGCTTATCTGCAGAAGATCTGTGCACCAAGGAATGTGGTGGTCCAGAAGTGGTGAAGACCTG  
 ATCCCTGGGACGCTGGCACCGACAGCGGGTGACCTATGAGTCACCCAACAACCCACCATCCCCAGG  
 AGAAAATCCGGCCCTGACCAGCCTGGACCATCTCAGAGTCCCTTCTATGACCCAGAGGGTGGTCCAT  
 CACTCAAGTAGCCAGAGTTGTATCGAGAGAATCGCACGGAAGGGTGAACAATGCAATATTGTACCTGAC  
 AATGTGATGATATTGTAGCTGACCTGGCTCCAGAAGAGAAAGATGAAGATGACACCCCTGAAACCTGCA  
 TCTACTCCAAGTGGTCCCATGGTCCGCTGCAGCTCCTCCACCTGTGACAAAGGCAAGAGGATGCGACA  
 GCGCATGTGAAAGCACAGCTGGACCTCAGCGTCCCTGCCCTGACACCCAGGACTTCCAGCCCTGCATG  
 GGCCCTGGCTGCAGTGACGAAGACGGCCACCTGCACCATGTCCGAGTGGATCACCTGGTCCGCTGCA  
 GCATCTCTGCGCATGGGCATGAGGTCCCGGAGAGGTATGTGAAGCAGTTCGCGGAGGACGGCTCCGT  
 GTGCACGCTGCCACTGAGGAAACGGAGAAGTGCACGGTCAACGAGGAGTGTCTCCAGCAGCTGCCTG  
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 TGATCAAGATGAACCCCGCAGATGGCTCCATGTGCAAAGCCGAGACATCACAGGCAGAGAAGCGCATGAT  
 GCCAGAGTGCCACACCATCCCATGCTTGCTGTCCCATGGTCCGAGTGGAGTGACTGCAGCGTGACCTGC  
 GGAAGGGCATGCGAACCAGACAGCGGATGCTCAAGTCTCTGGCAGAAGTGGAGACTGCAATGAGGATC  
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 GTCGGAATGTAACAAGTGCATGTGGGAAAGGCCACGTGATTCGAACCCGGATGATCCAAATGGAGCCTCAG  
 TTTGGAGGTGCACCCTGCCAGAGACTGTGCAGCGAAAAAGTGGCGCATCCGAAAATGCCTTCGAAATC  
 CATCCATCCAAAAGCTACGCTGGAGGGAGGCCGAGAGAGCCGGGAGTGAGCAGCTGAAGGAAGATC  
 TGAAGGGGAGCAGTTCACAGTTGTAGGATGCGCCCATGGACGGCCTGGTCAAGATGCACCAAACTGTGC  
 GGAGGTGGAATTCAGGAACGTTACATGACTGTAAGAAGAGATTCAAAGCTCCAGTTTACCAGCTGCA  
 AAGACAAGAAGGAGATCAGAGCATGCAATGTTTCATCCTTGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

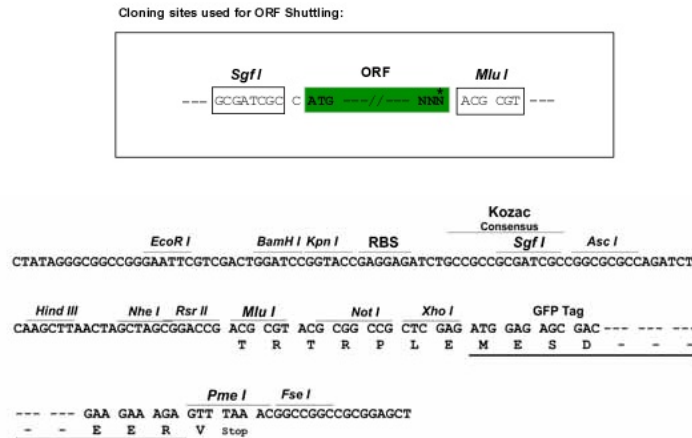
**Protein Sequence:** >RG218131 representing NM\_006108  
Red=Cloning site Green=Tags(s)

MRLSPAPLKL SRTPALLALALPLAAALAFSDETLDKVPKSEGYCSRILRAQGTRREGYTEFSLRVEGDPD  
FYKPGTSYRVTL SAAPPSYFRGFTLIALRENREGDKEDHAGTFQIIDEEETQFMSNCPVAVTESTPRRR  
TRIQVFWIAPPAGTGCVILKASIVQKRIIYFQDEGSLTKKLCEQDSTFDGVTDKPILDCCACGTAKYRLT  
FYGNWSEKTHPKDYPRRANHWSAIIIGGSHSKNYVLWEYGGYASEGVKQVAELGSPVKMEEEEIRQQSDEVL  
TVIKAKAQWPAWQPLNVRAAPSAEF SVD RTRHLSFLTMMGSPDWNVGLSAEDLCTKECGWVQKVVQDL  
IPWDAGTDSGVTYE SPNKPTIPQEKIRPLTSLDHPQSPFYDPEGGSITQVARVVIERIARKGEQCNI VPD  
NVDDIVADLAPEEKDEDDTPETCIYSNWS PWSACSSSTCDKGKRMQRMLKAQLDL SVPCPDTQDFQPC  
MTEWGEWDEYSATCGMGMKRRHRMIKMN PADGSMCKAETSQAEKRMPECHTIPCLLSPWSEWSDCSVTC  
GPGCSDDEDGPTCTMSEWITWSPCSI SCGMGMSRERYVKQFPEDGVSCTLPTEETE KCTVNEECSPSSCL  
GKGMTRQRMLKSLAELGDCNEDLEQVEKCM LPECPIDCELTEWSQWSECNKSCGKGHVIRTRMIQMEPQ  
FGGAPCPETVQRKKCRIRKCLRNP SIQKLRWREARESRSEQLKEESEGEQFPGCRMRPWTAWSECTKLC  
GGGIQERYMTVKKRFKSSQFTSCKDKKEIRACNVHPC

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_006108

ORF Size: 2421 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\\_006108.1](#), [NP\\_006099.1](#)

**RefSeq Size:** 4755 bp

**RefSeq ORF:** 2424 bp

**Locus ID:** 10418

**UniProt ID:** [Q9HCB6](#)

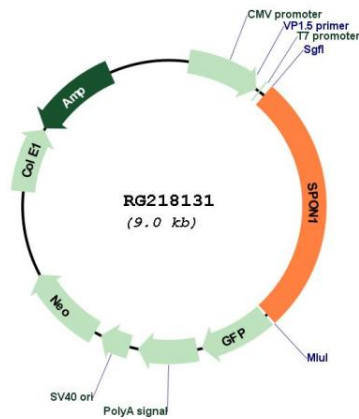
**Cytogenetics:** 11p15.2

**Domains:** tsp\_1, Reeler

**Protein Families:** Secreted Protein

**Gene Summary:** Cell adhesion protein that promotes the attachment of spinal cord and sensory neuron cells and the outgrowth of neurites in vitro. May contribute to the growth and guidance of axons in both the spinal cord and the PNS (By similarity). Major factor for vascular smooth muscle cell. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG218131