

Product datasheet for **MG210767**

Spon1 (NM_145584) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spon1 (NM_145584) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spon1
Synonyms:	AI666765; AW455831; BC020531; D330035F22Rik; FSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210767 representing NM_145584
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTGTCTCCCGTGTCCCTGAGGCTTAGCCGGGGTCCGGCGCTGCTGGCCCTCGCGCTGCCCTGG
 CCGCAGCGCTAGCTTTCTCAGATGAGACCCTGGACAAAGTGACCAAGTCGGAGGGCTACTGCAGCCGCAT
 CTTGCGCGCCACAGGCACACGGCGTGAGGGATACACGGAGTTCAGCCTCCGCGTGGAAAGCGACCCTGAC
 TTCTATAAGCCAGGAAGCAGCTACCGAGTGACACTTTCGGCTGCTCCTCCCTCTACTTCAGAGGTTTCA
 CGTTAATTGCCCTCAAAGAGAACCAGGAGGGAGATAAGGAAGAAGATCATGCAGGCACCTTCAGATCAT
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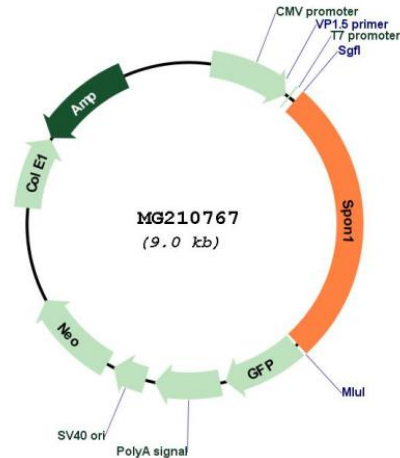
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210767 representing NM_145584
Red=Cloning site Green=Tags(s)

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MRLSPVSLRLSRGPALLALPLAAALAFSDETLDKVTKSEGYCSRILRAQGTTRREGYTEFSLRVEGDPD
FYKPGSSYRVTL SAAPSYFRGFTLIALKENQEGDKEDHAGTFQIIDEETQFMSNCPVAVTESTPRRR
TRIQVFWIAPPTGTGCVILKASIVQKRIIYFQDEGSLTKKLCEQDPTLDGVTDRPILDCCACGTAKYRLT
FYGNWSEKTHPKDYPRRANHWSAIIIGGSHSKNYVLWEYGGYASEGVKQVAELGSPVKMEEEIRQQSDEVL
TVIKAKAQWPAWQPVNVRAAPSAEF SVD RTRHLSFLTMMGSPDWNVGLSAEDLCTKECGWVQKVVQDL
IPWDAGTDSGVTYE SPNKPTIPQE KIRPLTSLDHPQSPFYDPEGGSITQVARVVIERIARKGEQCNI VPD
NVDDIVADLAPEEKDEDDTPETCIYSNWSPWSACSSSTCEKGKRMQRMLKAQLDL SVPCPDTQDFQPC
M GPGCSDDEDGSTCTMSEWITWSPCSVSCGMGMSRERYVKQFPEDGSVCMLPTEETE KCTVNEECSPSSCL
VTEWGEWDDCSATCGMGMKRRHRMVKMSPADGSMCKAETSQA EKCMPECHTIPCLLSPWSEWSDCSVTC
GKGMRTRQRMLKSLAELGDCNEDLEQA EKCMLEPCPIDCELSEWSQWSECNKSCGKGHMIRTRTIQMEPQ
FGGVPCPETVQRKKCRTRKCLRSPSVQKLRWREARESRRESQLREESDGEQFPGCRM RPWTAWSECTKLC
GGGIQERYMTVKKRFKSSQFTSCKDKKEIRACNVHPC
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_145584

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_145584.2](#), [NP_663559.1](#)

RefSeq Size: 6166 bp

RefSeq ORF: 2424 bp

Locus ID: 233744

UniProt ID: [Q8VCC9](#)

Cytogenetics: 7 F1

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).[UniProtKB/Swiss-Prot Function]