

Product datasheet for **RG206764**

SPON2 (NM_012445) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPON2 (NM_012445) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPON2
Synonyms: DIL-1; DIL1; M-SPONDIN; MINDIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206764 representing NM_012445
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAACCCAGCCCGCCGCCCTGGCAAGGCCCTCTGCGCTCTCTCTGGCCACTCTCGGC
 CCGCCGGCCAGCCTTTGGGGGAGAGTCCATCTGTTCCGCCAGAGCCCGCCAAATACAGCATCACCT
 CACGGCAAGTGGAGCCAGACGGCCTTCCCAAGCAGTACCCCTGTTCCGCCCCCTGCGCAGTGGTCT
 TCGCTGCTGGGGCCGCGCATAGCTCCGACTACAGCATGTGGAGGAAGAACCAGTACGTAGTAACGGC
 TGCAGACTTTGCGGAGCGGGGAGGCCCTGGGCCTGATGAAGGAGATCGAGGCGCGGGGAGGCGCT
 GCAGAGCGTGCACGAGGTGTTTTCGGCGCCCGCGTCCCAAGCGCACCGGGCAGACGTGCGCGGAGCTG
 GAGGTGCAGCGCAGGCACTCGCTGGTCTCGTTTGTGGTGCATCGTGCCAGCCCCGACTGGTTCGTGG
 GCGTGGACAGCCTGGACCTGTGCGACGGGGACCGTTGGCGGGAACAGGCGGCGCTGGACCTGTACCCCTA
 CGACGCCGGGACGGACAGCGGCTTACCTTCTCTCCCCAACTTCGCCACCATCCCGCAGGACACGGTG
 ACCGAGATAACGTCTCTCTCCAGCCACCGGCCAACTCTTCTACTACCCGCGGCTGAAGGCCCTGC
 CTCCATCGCCAGGGTACACTGCTGCGGCTGCGACAGAGCCCCAGGGCCTTCATCCCTCCCGCCCCAGT
 CCTGCCAGCAGGACAATGAGATTGTAGACAGCGCCTCAGTTCAGAAACGCCGCTGGACTGCGAGGTC
 TCCCTGTGGTCTCTGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAGAGCAGGACTCGCT
 ACGTCCGGGTCCAGCCCCCAACACGGGAGCCCTGCCCGAGCTCGAAGAAGAGGCTGAGTGCGTCCC
 TGATAACTGCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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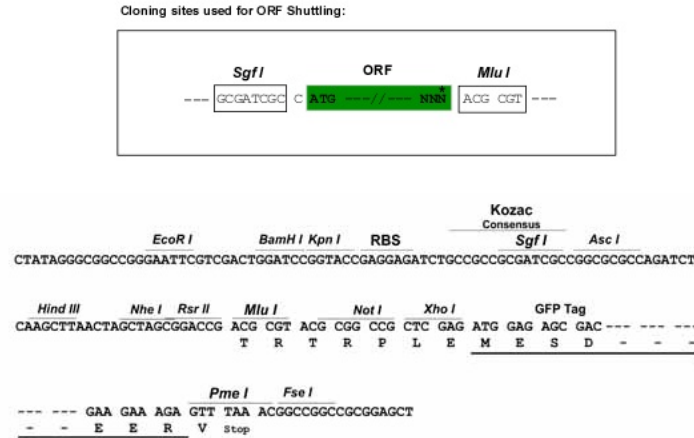
Protein Sequence: >RG206764 representing NM_012445
 Red=Cloning site Green=Tags(s)

MENPSPAALGKALCALLLATLGAAGQPLGGESIC SARAPAKYSITFTGKWSQTAFPKQYPLFRPPAQWS
 SLLGAAHSSDYSMWRKNQYVSNGLRDF AERGEAWALMKEIEAAGEALQSVHEVFSAPAVPSGTGQTS AEL
 EVQRRHSLVSVFVVRIVSPDFVGVDSLDCDGRWREQAALDL YPYDAGTDSGFTFSSPNFATIPQDTV
 TEITSSSPSHPANSFYYPRLKALPPIARVTLRLRQSPRAFIPPAPVLP SRDNEIVDSASVPETPLDCEV
 SLWSSWGLCGGHCGR LGTKSRTRYVRVQPANNGSPCPELEEEAECVPDNCV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012445

ORF Size: 993 bp

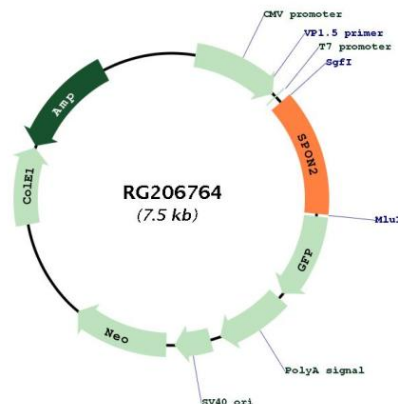
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_012445.1 , NP_036577.1
RefSeq Size:	1807 bp
RefSeq ORF:	996 bp
Locus ID:	10417
UniProt ID:	Q9BUD6
Cytogenetics:	4p16.3
Domains:	tsp_1
Protein Families:	Secreted Protein
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. Essential in the initiation of the innate immune response and represents a unique pattern-recognition molecule in the ECM for microbial pathogens (By similarity). Binds bacterial lipopolysaccharide (LPS).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206764