

Product datasheet for **SC322981**

SPON2 (NM_001128325) Human Untagged Clone

Product data:

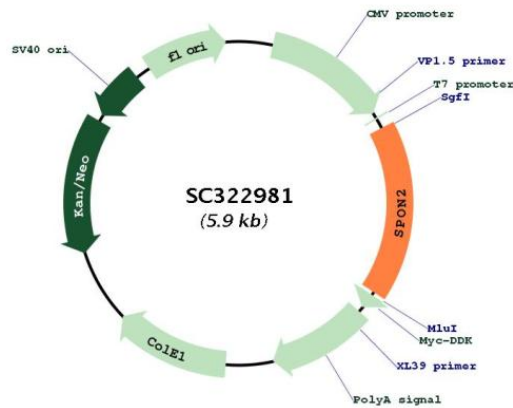
Product Type:	Expression Plasmids
Product Name:	SPON2 (NM_001128325) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPON2
Synonyms:	DIL-1; DIL1; M-SPONDIN; MINDIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322981 representing NM_001128325. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAACACCCAGCCCGCCGCGCCCTGGGCAAGGCCCTCTGCGCTCTCCTCCTGGCCACTCTCGGC
GCCGCCGCCAGCCTCTGGGGGAGAGTCCATCTGTTCCGCCAGAGCCCCGGCCAAATACAGCATCACC
TTCACGGGCAAGTGGAGCCAGACGGCCTCCCCAAGCAGTACCCCTGTTCCGCCCCCTGCGCAGTGG
TCTTCGCTGCTGGGGCCGCGCATAGCTCCGACTACAGCATGTGGAGGAAGAACCAGTACGTCAGTAAC
GGGCTGCGCGACTTTGCGGAGCGCGCGAGGCCTGGGCGCTGATGAAGGAGATCGAGGCGCGGGGGAG
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TTCGTGGGCGTGGACAGCCTGGACCTGTGCGACGGGGACCCTGGCGGGAACAGGCGGCGTGGACCTG
TACCCCTACGACGCCGGGACGGACAGCGGCTTACCTTCTCCTCCCCAACTTCGCCACCATCCCGCAG
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AAGGCCCTGCCTCCCATCGCCAGGGTGACACTGGTGGCGTGGCAGAGCCCCAGGGCCTTATCCCT
CCCGCCCCAGTCTGCCAGCAGGACAATGAGATTGTAGACAGCGCCTCAGTCCAGAAACGCCGCTG
GACTGCGAGGTCTCCCTGTGGTCTCTGGGACTGTGCGGAGGCCACTGTGGGAGGCTCGGGACCAAG
AGCAGGACTCGTACGTCCGGTCCAGCCCGCAACAACGGGAGCCCTGCCCGAGCTCGAAGAAGAG
GCTGAGTGCGTCCCTGATAACTGCGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001128325

Insert Size: 996 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001128325.2](#)

RefSeq Size: 1825 bp

RefSeq ORF: 996 bp

Locus ID: 10417

UniProt ID: [Q9BUD6](#)

Cytogenetics: 4p16.3

Protein Families: Secreted Protein

MW: 35.8 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. 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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 all encode the same protein.