

Product datasheet for **SC307150**

SPTBN1 (NM_178313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPTBN1 (NM_178313) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPTBN1
Synonyms:	betaSpII; ELF; HEL102; SPTB2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178313, the custom clone sequence may differ by one or more nucleotides

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 GCTGAACAGGGATCTCCACGGGTTAGTTACCGCTCTCAAACCTACAAAACACTACAAAAC
 TTTAATAGCAGACGGACAGCCAGTGACCAGCCATGGTCTGGACTGTGA

Restriction Sites:

Please inquire

ACCN:

NM_178313

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_178313.1](#), [NP_842565.1](#)

RefSeq Size: 7224 bp

RefSeq ORF: 6468 bp

Locus ID: 6711

UniProt ID: [Q01082](#)

Cytogenetics: 2p16.2

Gene Summary: Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits. This gene is one member of a family of beta-spectrin genes. The encoded protein contains an N-terminal actin-binding domain, and 17 spectrin repeats which are involved in dimer formation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2), also known as short or sigma-2, differs in the 5' UTR, 3' UTR, and coding region (compared to variant 1). The resulting protein (isoform 2) maintains the reading frame but has shorter and distinct sequences at both the N- and C-termini, compared to isoform 1.