

## Product datasheet for RC222257

### SPTBN2 (NM\_006946) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPTBN2 (NM_006946) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPTBN2
Synonyms:	GTRAP41; SCA5; SCAR14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222257 representing NM_006946 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGC**C

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Protein Sequence: >RC222257 representing NM\_006946  
 Red=Cloning site Green=Tags(s)

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Chromatograms: [https://cdn.origene.com/chromatograms/mk8040\\_h05.zip](https://cdn.origene.com/chromatograms/mk8040_h05.zip)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_006946

ORF Size: 7170 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\\_006946.3](#)

RefSeq Size: 7864 bp

RefSeq ORF: 7173 bp

Locus ID: 6712

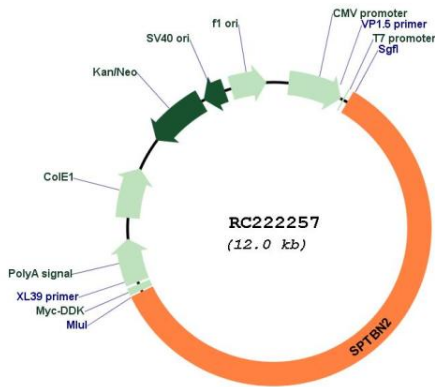
UniProt ID: [O15020](#)

Cytogenetics: 11q13.2

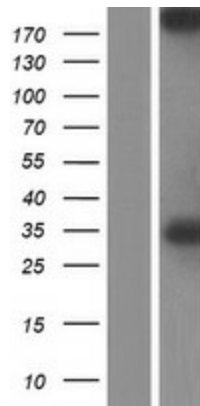
**MW:** 271.1 kDa

**Gene Summary:** Spectrins are principle components of a cell's membrane-cytoskeleton and are composed of two alpha and two beta spectrin subunits. The protein encoded by this gene (SPTBN2), is called spectrin beta non-erythrocytic 2 or beta-III spectrin. It is related to, but distinct from, the beta-II spectrin gene which is also known as spectrin beta non-erythrocytic 1 (SPTBN1). SPTBN2 regulates the glutamate signaling pathway by stabilizing the glutamate transporter EAAT4 at the surface of the plasma membrane. Mutations in this gene cause a form of spinocerebellar ataxia, SCA5, that is characterized by neurodegeneration, progressive locomotor incoordination, dysarthria, and uncoordinated eye movements. [provided by RefSeq, Dec 2009]

**Product images:**



Circular map for RC222257



Western blot validation of overexpression lysate (Cat# [LY416309]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222257 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).