

## Product datasheet for **SC108816**

### Syntenin 2 (SDCBP2) (NM\_015685) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntenin 2 (SDCBP2) (NM_015685) Human Untagged Clone
Tag:	Tag Free
Symbol:	Syntenin 2
Synonyms:	SITAC; SITAC18; ST-2; ST2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108816 sequence for NM_015685 edited (data generated by NextGen Sequencing) ATGGTGGCACC GGTAACCGGGTACAGCCTGGGCGTGCGGCGAGCTGAGATCAAGCCCGGG GTGCGCGAGATCCACCTGTGCAAGGACGAGCGCGCAAGACCGGGCTGAGGCTGCGGAAG GTCGACCAGGGGCTCTTTGTGCAGTTGGTCCAGGCCAACACCCCTGCATCCCTTGTGGGG CTGCGCTTTGGGGACCAGCTCCTGCAGATTGACGGGCGTGACTGTGCTGGGTGGAGCTCG CACAAAGCCCATCAGGTGGTGAAGAAGGCATCAGGCGATAAGATTGTCGTGGTGGTTCGG GACAGGCCGTTCCAGCGGACTGTCACCATGCACAAGGACAGCATGGGCCACGTCCGGCTTC GTGATCAAGAAGGGGAAGATTGTCTCTCTGGTCAAAGGGAGTTCTGCGGCCCGCAACGGG CTCCTCACCAACCACTACGTGTGTGAGGTAGACGGGCAGAATGTTATCAGGCTGAAGGAC AAAAAGATCATGGAGATTCTGGCCACGGCTGGGAACGTTGTACCCTGACCATCATCCCC AGTGTGATCTACGAGCACATGGTCAAAAAGTTGCCTCCAGTCCTGCTCCACCACACCATG GACCACTCCATCCCAGATGCCTGA  Clone variation with respect to NM_015685.5 450 g=>a;469 g=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015685 unedited  
 GATTTTGTATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCAGCACCTTGCC  
 TGCAGGGTGTCTGAGAAATCAGCCATGTCATCCCTGTACCCATCTCTAGAGGACCTAAAA  
 GTGGACCAAGCCATTTCAGGCCAGGTGAGAGCCTACCCAAAGATGCCAGCCCTGCCAGTC  
 CAGGCAACAGCCATTTCCCACCACCAGTTTTGTACCCAACTTGGCAGAAGTGGAAAAT  
 TATATGGGTCTTCCCTCTCCAGCCAAGAAGTCCAGGAGAGCCTGCTTCCAGATCCAGAG  
 GGTGACAGTACAGCGGTCTCGGGCCCCGGGCCAGATGGTGGCACCCGTAACCGGG  
 TACAGCCTGGGCGTGGCGGAGCTGAGATCAAGCCCGGGTGGCGGAGATCCACCTGTGC  
 AAGGACGAGCGCGCAAGACCGGCTGAGGCTGCGGAAGTGCAGCAGGGGCTCTTTGTG  
 CAGTTGGTCCAGGCCAACCCCTGCATCCCTTGTGGGCTGCGCTTTGGGGACCAGCTC  
 CTGCAGATTGACGGCGTACTGTGCTGGGTGGAGCTCGCACAAGCCCATCAGGTGGT  
 AAGAAGGCATCAGGCGATAAGATTGCTGCTGGTGGTTCGGGACAGGCCGTTCCAGCGGACT  
 GTCACCATGCACAAGGACAGCATGGGCCACGTGGCTTCGTGATCAAGAAAGGGAAGATT  
 GTCTCTCTGGTCAAAGGNNAGTCTGCGCCCGCAACGGGCTCTCACCACACTACGTGTG  
 TGAGGTAGACGGCAGAATGGTATCAGGCTGAAAGGACAAAAGATCATGGAGATTCTGGC  
 CACGCTGGGAACGTTGTCAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_015685 unedited  
 CGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTAAAATCAAATCTTTA  
 TTCAAAGATAGTCAAGGCTGACAACTTATGCAGTCTGTGACAAAGAGCAAGTCAAGCCA  
 AGGAAAAAGCTCTCACAAAGACGTAGCTCTGTTCTTAAAATGTGTAAGTGTCTTTCT  
 GGTAGAGCAAAAATTTCTGAAAGGGGCCAGTTGCGACTTAAGCAGCGTTTAAACAGCC  
 TGCTCCGTGTCCAGCATTTAAATCAGCACAAGAGAATCGGCTGCCTGTGGGCCCTGCCT  
 GAGCCTCAGCCTAGCTTGGAGTCTGAGGCTCCAAGGAGGCTGTGTGTATAAGCCATCCC  
 ATGGTCAACCCTCCTGGACACGCCCCCTCATGGCAGCCCCACCTTAAGCAGCAGGCCGG  
 CTGCAACCATCATCCGAGGGTGGTTGCCCTTGTGTCAGGAGGGCGGGAAGCCCCCCT  
 GCCTGCCTGCCCTCCAGTGGCTTCAGGCATCTGGGATGGAGTGGTCCATGGTGTGGTGG  
 AGCAGGACTGGAGGCAACTTTTTGACCATGTGCTCGTAGATCACACTGNGGATGATGGTC  
 AGGGTGACAACGTTCCAGCCGTGGCCAGAATCTCCATGATCTTTTTGTCCTTCAGCCT  
 GATAACATTCTGCCGTCTACCTCACACAGTGTGGNNTGTGAAGACCCCGTCCCGCCC  
 GCAAACCTCCCTTTGACAGAAAGACAATCTCCCTTCTGATCACGAACCGACGTGGCCATG  
 CTGGCCTTGTGCATGTGACAGTCCGCTGGACCGCTGTCCCAACACCCCGACATACTTAT  
 CGCTGATGCCTCTTACACCTGATGGCTTTGGCGAGCTCACCCACCAGTACCCCTCAAT  
 TTGAGGACCTGTCCCAAGGCCACCCCAAGGAGCAGGGTGTGTC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_015685

**Insert Size:**

1430 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).

**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\\_015685.3](#), [NP\\_056500.2](#)

**RefSeq Size:** 1274 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 27111

**UniProt ID:** [Q9H190](#)

**Cytogenetics:** 20p13

**Domains:** PDZ

**Gene Summary:** The protein encoded by this gene contains two class II PDZ domains. PDZ domains facilitate protein-protein interactions by binding to the cytoplasmic C-terminus of transmembrane proteins, and PDZ-containing proteins mediate cell signaling and the organization of protein complexes. The encoded protein binds to phosphatidylinositol 4, 5-bisphosphate (PIP2) and plays a role in nuclear PIP2 organization and cell division. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Read-through transcription also exists between this gene and the upstream FKBP1A (FK506 binding protein 1A, 12kDa) gene, as represented in GeneID:100528031. [provided by RefSeq, Sep 2011]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter than isoform a.