

Product datasheet for **RC201160**

Syntenin 2 (SDCBP2) (NM_080489) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntenin 2 (SDCBP2) (NM_080489) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntenin 2
Synonyms:	SITAC; SITAC18; ST-2; ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201160 representing NM_080489 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATCCCTGTACCCATCTCTAGAGGACCTAAAAGTGGACCAAGCCATTCAGGCCAGGTGAGAGCCT
CACCCAAGATGCCAGCCCTGCCAGTCCAGGCAACAGCCATTTCCCACCACCAGTTTTGTACCCAACT
GGCAGAACTGGAAAATTATGGGTCTTCCCTCTCCAGCAAGAAGTCCAGGAGAGCCTGCTTCAGATT
CCAGAGGGTACAGTACAGCGGTCTCGGGCCCCGGGCCGAGATGGTGGCACCGGTAACCGGGTACA
GCCTGGGCGTGGCGGAGCTGAGATCAAGCCCAGGGTGGCGGAGATCCACCTGTGCAAGGACGAGCGCG
CAAGACCGGGCTGAGGCTGCGGAAGGTGACCAAGGGGCTCTTTGTGAGTTGGTCCAGGCCAACCCCT
GCATCCCTTGTGGGGCTGCGCTTTGGGGACCAGCTCCTGCAGATTGACGGGCGTGACTGTGCTGGGTGGA
GCTCGCACAAGCCCATCAGGTGGTGAAGAAGGCATCAGGCGATAAGATTGTCGTGGTGGTTCGGGACAG
GCCGTTCCAGCGGACTGTCACCATGCACAAGGACAGCATGGGCCACGTCCGCTTCGTGATCAAGAAGGGG
AAGATTGTCTCTGGTCAAAGGGAGTTCTGCGGCCCGCAACGGGCTCCTACCAACCACTACGTGTGTG
AGGTGGACGGGCAGAATGTTATCGGGCTGAAGGACAAAAGATCATGGAGATTCTGGCCACGGCTGGGAA
CGTTGTACCCCTGACCATCATCCCCAGTGTGATCTACGAGCACATGGTCAAAAAGTTGCCTCCAGTCCCTG
CTCCACCACACCATGGACCACTCCATCCAGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201160 representing NM_080489
Red=Cloning site Green=Tags(s)

MSSLYPSLEDLKVDQAIQAQVRRASPKMPALPVQATAISPPPVLYPNLAELENYMGSLSSSQEVQESLLQI
 PEGDSTAVSGPGPGQMVAPVTGYSLGVRRAEIKPGVREIHLCKDERGKTGLRLRKVDQGLFVQLVQANTP
 ASLVGLRFGDQLLQIDGRDCAGWSSHKAHQVVKKASGDKIVVVVRDRPFQRTVTMHKDSMGHVGFVIKKG
 KIVSLVKGSSAARGLLTHYVCEVDGQNVIGLKDKKIMEILATAGNVVTLTIIPSVIYEHMVKKLPPVL
 LHHTMDHSIPDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1729_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080489

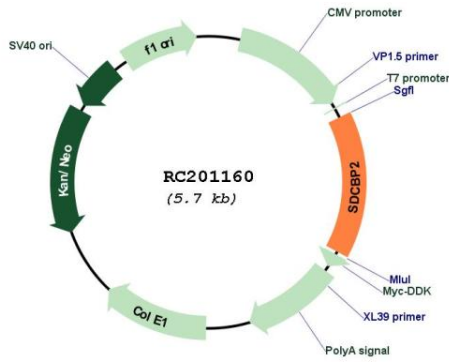
ORF Size: 876 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

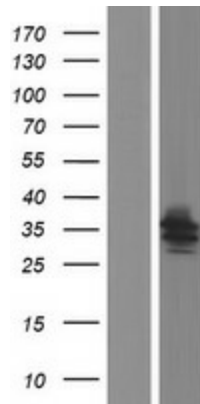
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_080489.5
RefSeq Size:	1475 bp
RefSeq ORF:	879 bp
Locus ID:	27111
UniProt ID:	Q9H190
Cytogenetics:	20p13
MW:	31.4 kDa
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]

Product images:



Circular map for RC201160



Western blot validation of overexpression lysate (Cat# [LY409179]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201160 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).