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Product datasheet for RG201160

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:	TurboGFP
Symbol:	Syntenin 2
Synonyms:	SITAC; SITAC18; ST-2; ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201160 representing NM_080489
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCATCCCTGTACCCATCTCTAGAGGACCTAAAAGTGGACCAAGCCATTCAGGCCCAGGTCAGAGCCT
CACCCAAGATGCCAGCCCTGCCAGTCCAGGCAACAGCCATTTCCCCACCACCAGTTTTGTACCCAAACTT
GGCAGAACTGGAAAATTATATGGGTCTTTCCCTCTCCAGCCAAGAAGTCCAGGAGAGCCTGCTTCAGATT
CCAGAGGGTGACAGTACAGCGGTCTCGGGCCCCGGGCCCGGCCAGATGGTGGCACCGGTAACCGGGTACA
GCCTGGGCGTGCGGCGAGCTGAGATCAAGCCCGGGGTGCGCGAGATCCACCTGTGCAAGGACGAGCGCGG
CAAGACCGGGCTGAGGCTGCGGAAGGTCGACCAGGGGCTCTTTGTGCAGTTGGTCCAGGCCAACACCCCT
GCATCCCTTGTGGGGCTGCGCTTTGGGGACCAGCTCCTGCAGATTGACGGGCGTGACTGTGCTGGGTGGA
GCTCGCACAAAGCCCATCAGGTGGTGAAGAAGGCATCAGGCGATAAGATTGTCGTGGTGGTTCGGGACAG
GCCGTTCCAGCGGACTGTCACCATGCACAAGGACAGCATGGGCCACGTCGGCTTCGTGATCAAGAAGGGG
AAGATTGTCTCTCTGGTCAAAGGGAGTTCTGCGGCCCGCAACGGGCTCCTCACCAACCACTACGTGTGTG
AGGTAGACGGGCAGAATGTTATCGGGCTGAAGGACAAAAAGATCATGGAGATTCTGGCCACGGCTGGGAA
CGTTGTCACCCTGACCATCATCCCCAGTGTGATCTACGAGCACATGGTCAAAAAGTTGCCTCCAGTCCTG
CTCCACCACACCATGGACCACTCCATCCCAGATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>RG201160 representing NM_080489
Red=Cloning site Green=Tags(s)

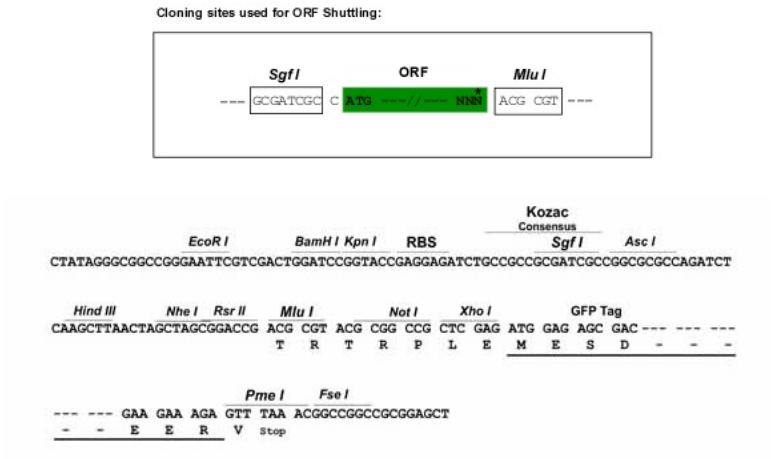
MSSLYPSLEDLKVDQAIQAQVRASPKMPALPVQATAISPPPVLYPNLAELENYMGLSLSSQEVQESLLQI
PEGDSTAVSGPGPGQMVAPVTGYSLGVRRAEIKPGVREIHLCKDERGKTGLRLRKVDQGLFVQLVQANTP
ASLVGLRFGDQLLQIDGRDCAGWSSHKAHQVVKKASGDKIVVVVRDRPFQRTVTMHKDSMGHVGFVIKKG
KIVSLVKGSSAARNGLLTNHYVCEVDGQNVIGLKDKKIMEILATAGNVVTLTIIPSVIYEHMVKKLPPVL
LHHTMDHSIPDA

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1716_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080489

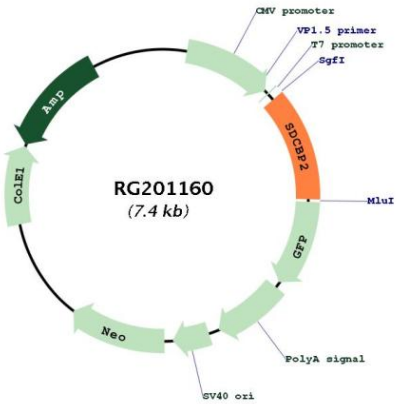
ORF Size: 876 bp

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:	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_080489.3, NP_536737.3
RefSeq Size:	1475 bp
RefSeq ORF:	879 bp
Locus ID:	27111
UniProt ID:	Q9H190
Cytogenetics:	20p13
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 RG201160