

Product datasheet for **MG204141**

Sdcbp (NM_016807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdcbp (NM_016807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sdcbp
Synonyms:	MDA-9; Sycl; syntenin-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204141 representing NM_016807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTTATCCATCTCTTGAAGATTTGAAGGTAGACAAAGTAATTCAGGCTCAAAGTCTTATTCTG
CCAATCCCGCCAGCCAAGCATTGTTCTGGTGGATGCTTCTGCTGCTCTTCTCCAGATGGAAATCTGTA
TCCTAAACTGTATCCAGAGCTCTCTCAATACATGGGACTGTCTTAAATGAAGCTGAAATATGTGAGAGC
ATGCCCATGGTCTCTGGAGCACCAGCACAAAGGCAGTTGGTAGCAAGACCATCCAGTGTGAAGTATATGG
TAGCACCTGTGACAGGTAAACGATGCTGGAATTCGGAGAGCAGAAATTAAGCAAGGGATTCGTGAAGTTAT
TTTGTGTAAGGATCAAGATGGAAAAATTGGGCTCAGACTTAAGTCAATAGATAATGGTATATTTGTTCAA
CTCGTCCAGGCTAATCCCCAGCCTCCTTGGTTGGACTGAGATTTGGGGACCAGGTGCTCCAGATCAACG
GTGAAAAGTGTGCGGGCTGGAGCTCTGATAAGGCACACAAGGTGCTCAAGCAGGCCTTTGGAGAGAAGAT
CACCATGACGATCCGTGACAGGCCCTTTGAACGGACAGTTACTATGCATAAGGACAGCAGTGGACATGTT
GGCTTTATCTTTAAAAGTGGAAAAATCACATCCATAGTAAAAGATAGTTCTGCTGCCAGAAAACGGCCTCC
TCACTGACCACCACATCTGTGAGATCAACGGACAGAACGTCATTGGCTTGAAGGATGCTCAGATTGCAGA
TATACTGTCAACAGCTGGGACTGTGTTACCATCAATCATGCCTACTTTTATCTTCAACACATTATT
AAACGGATGGCTCCAGCATTATGAAAAGCCTGATGGATCACACCATTCTGAAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204141 representing NM_016807
 Red=Cloning site Green=Tags(s)

MSLYPSLEDLKVDKVIQAQTAYSANPASQAFVLVDASAALPPDGNLYPKLYPELSQYMGSLSLNEAEICES
 MPMVSGAPAQQQLVARPSSVNYMVPVGTNDAGIRRAEIKQGIREVILCKDQDGKIGLRKLSIDNGIFVQ
 LVQANSASLVLGRFGDQVLQINGENCAGWSSDKAHKVLKQAFGEKITMTIRDRPFERTVVMHKDSSGHV
 GFIFKSGKITSIVKSSAARNLLTDHHICEINGQNVIGLKDAQIADILSTAGTVVITITIMPTFIFEHII
 KRMAPSIMKSLMDHTIPEV

TRTRPLE - GFP Tag - V

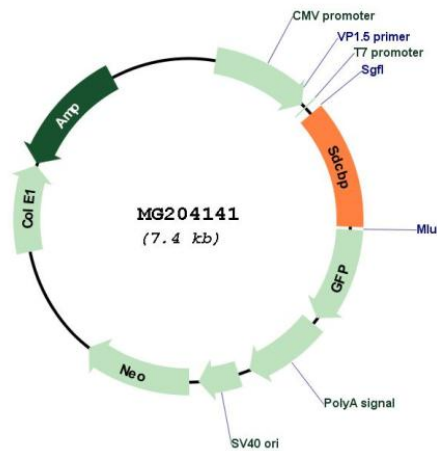
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_016807

ORF Size: 2547 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:	<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_016807.1
RefSeq Size:	2043 bp
RefSeq ORF:	897 bp
Locus ID:	53378
UniProt ID:	O08992
Cytogenetics:	4 A1
Gene Summary:	Multifunctional adapter protein involved in diverse array of functions including trafficking of transmembrane proteins, neuro and immunomodulation, exosome biogenesis, and tumorigenesis. Positively regulates TGFB1-mediated SMAD2/3 activation and TGFB1-induced epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types. May increase TGFB1 signaling by enhancing cell-surface expression of TGFR1 by preventing the interaction between TGFR1 and CAV1 and subsequent CAV1-dependent internalization and degradation of TGFR1. In concert with SDC1/4 and PDCD6IP, regulates exosome biogenesis (By similarity). Regulates migration, growth, proliferation, and cell cycle progression in a variety of cancer types (PubMed:26539120). In adherens junctions may function to couple syndecans to cytoskeletal proteins or signaling components. Seems to couple transcription factor SOX4 to the IL-5 receptor (IL5RA). May also play a role in vesicular trafficking. Seems to be required for the targeting of TGFA to the cell surface in the early secretory pathway (By similarity).[UniProtKB/Swiss-Prot Function]