

Product datasheet for **MG204418**

Sdc1 (NM_011519) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Sdc1 (NM_011519) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Sdc1 |
| Synonyms: | AA408134; AA409076; CD138; Sstn; syn-1; Synd; Synd1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204418 representing NM_011519 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACGCGGGCGCTCTGGCTTTGGCTCTGCGCGCTGGCGCTGCGCCTGCAGCCTGCCCTCCCGCAA
TTGTGGCTGTAATGTTCTCTGAAGATCAGGATGGCTCTGGGGATGACTCTGACAACCTCTCTGGCTC
TGGCACAGGTGCTTTGCCAGATACTTTGTACGGCAGACACCTTCCACTTGAAGGACGTGTGGCTGTTG
ACAGCCACGCCACAGCTCCAGAGCCCACCAGCAGCAACACCGAGACTGCTTTTACCTCTGTCTGCCAG
CCGGAGAGAAGCCCGAGGAGGGAGACCTGTGCTCCATGTAGAAGCAGAGCCTGGCTTCACTGCTCGGGA
CAAGGAAAAGGAGGTACCACCAGGCCAGGGAGACCGTGCAGCTCCCCATCACCCAACGGGCCTCAACA
GTCAGAGTCAACCAGCCAGGCAGCTGTACATCTCATCCGCACGGGGCATGCAACCTGGCCTCCATG
AGACCTCGGCTCCACAGCACCTGGTCAACCTGACCATCAGCCTCCACGTGTGGAGGGTGGCGGCACTTC
TGTCAACAAAGAGGTTGTCGAGGATGGAATGCCAATCAGCTTCCCGCAGGAGAGGGCTCTGGAGAACA
GACTTCACCTTTGAAACATCTGGGGAGAACACAGCTGTGGCTGCCGTAGAGCCGGCCTGCGGAATCAGC
CCCCGGTGGACGAAGGAGCCACAGGTGCTTCTCAGAGCCTTTTGGACAGGAAGGAAGTGTGGGAGGTGT
CATTGCCGGAGGCTGGTGGCCCTCATCTTTGCTGTGTGCCTGGTGGCTTTCATGCTGTACCGGATGAAG
AAGAAGGACGAAGGAAGTACTCCTTGGAGGAGCCAAACAAGCCAATGGCGGTGCTACCAGAAACCCA
CCAAGCAGGAGGAGTTCTACGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204418 representing NM_011519
 Red=Cloning site Green=Tags(s)

MRRAALWLWLCALALRLQPALPQIVAVNVPPEDQDGSDDSDNFSGSGTGALPDTLSRQTPSTWKDVWLL
 TATPTAPEPTSSNTETAFTSVLPAGEKPEEGEPVLHVEAEPGFTARDKEKEVTTTRPRETVQLPITQRAST
 VRVTTAQAAVTSHPHGGMQPLHETSAPTAPGQPDHQPPRVEGGTTSVIKEVVEDGTANQLPAGEGSGEQ
 DFTTFETSGENTAVAAVEPGLRNQPPVDEGATGASQSLDRKEVLGGVIAGGLVGLIFAVCLVAFMLYRMK
 KKDEGSYSLEEPKQANGGAYQKPTKQEEFYA

TRTRPLE - GFP Tag - V

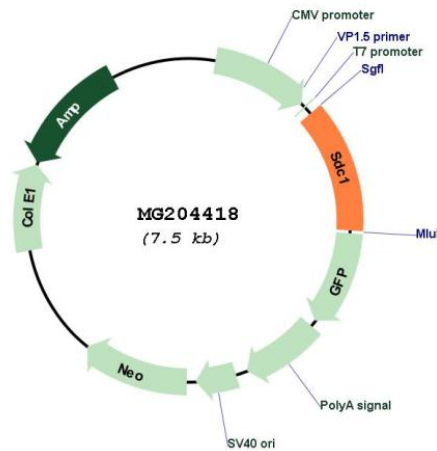
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011519

ORF Size: 933 bp

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| 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_011519.2 , NP_035649.1 |
| RefSeq Size: | 3057 bp |
| RefSeq ORF: | 936 bp |
| Locus ID: | 20969 |
| UniProt ID: | P18828 |
| Cytogenetics: | 12 3.94 cM |
| Gene Summary: | Cell surface proteoglycan that bears both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix. Regulates exosome biogenesis in concert with SDCBP and PDCD6IP.[UniProtKB/Swiss-Prot Function] |