

Product datasheet for MR205648

Sdccag8 (BC016244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdccag8 (BC016244) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sdccag8
Synonyms:	2700048G21Rik; 5730470G24Rik; Cccap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205648 representing BC016244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAGTCCCAGGGAACCTACCCTGGAGGACAGTCTGGGCAATACCAACGGAGTCTCCGGAAC
GTGCCAATAGAAGCATTACCAGTTGAAATGTGCCCTGAGAGAAGTGGATGCTACTGTAGAAGAAGATGC
ACTGGATCCTCCACCAGCATCAACGTAGAAAATGAGGACACAGGGTGGCTGGCATGAGCTGCAGCAC
AGCCATGCTGCAATCAACTGAAAGCTTTGTTGCGTCAACAAACAATAAGGAAAATGAGACATCTCCAC
CGCGAAGACGAAAGTTGCCCTTCGCGGCCGTCAGAATGTGACGATGGCAGCATGCCACCATGCACAA
CCTCGTTCTATCATTAAACGACCAGTCTCAATATATCCACCACCTAGAAGCAGAAGTCAAGTTCTGCAAG
GATGAATTGTCTGGAATGAAAAATAGGGTGAAGTAGTTGACTTGAAGATGAAAGGCTCCAGCAAGAAC
TGAAATCTCAAAGACCGGAGGAGACATTGAGGGAGCAAACATTCTGGATGCATCTGAAACATGCAGAA
TTCTTGATTATGACACGAGAAGATTCTAGGGTGGATGAAGCTGCAAAGAGACCATTTTCTCATGGTGAT
GCTGAAACTGGCAAACTGCATCCACTGGTATGCCAATAAATGGAAGCTGGAGCTGGAGAGGCTGAAAC
TCACATACGAGGCGAAGACTGACCTTCTGGAATCTCAGCTGATGCTTCTGAGGAAAGACTTAGCTGAATA
CCAGAAAACCTGTGAGGATCTTAAGGAAAGATTGAAGCATAAAGAGTCTTTCTGCTGCGAGTGCATCC
AGCCGTGTGGTGGCCTCTGTTGAAATGTGCTCAGCATGAAGCTGTTCTTTCCAGACACACAGCAACG
TGACATCCAGACCATCGAGAGGCTGACTAAAGAGAGAGATGACTTAATGTCTGTGCTAGTCTCTGTGCG
GAGCAGCTTGGCAGAAGCGCAGAAGAGAGAGACAAGTGCCTATGAGCAGGTGAAGCATGCTGTGCAGATG
ACAGAGGAAGCCAACCTTTGAGAAGACCAAGACTGTATCCCTTGCCTGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205648 representing BC016244
Red=Cloning site Green=Tags(s)

MAKSPGNSTLED~~SL~~GQYQRSLRERANRSIHLKCALREVDVTVEEDALDPST~~S~~INVENEDTGVAWHELQH
 SHAVNQLKALLRQQTNKENETSPRRRRLSPSRPSECDDGSMPTMHNLPVPIINDQSQYIHHLEAEVKFCK
 DELSGMKNRVQVVLENERLQELKSQRPEETLREQTFLDASGNMQNSWIMTRED~~S~~RVDEAAKRPFSHGD
 AETGKTASTGDANKWKL~~E~~LERLKLTYEAKTDLLESQMLLRKDLAEYQKTCEDLKERLKHKESLLAASAS
 SRVGGCLCLKCAQHEAVLSQTHSNVHIQTIERLTKERDDLSVLVSVRSSLAEAQKRETSAYEQVKHAVQM
 TEANFEKTKTVSLACV

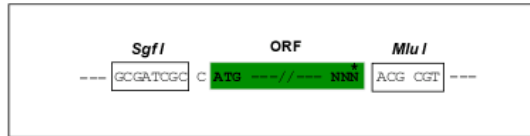
TRTRPLE~~Q~~KLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC016244

ORF Size: 1101 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:

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: [BC016244.1](#)

RefSeq Size: 2042 bp

RefSeq ORF: 1103 bp

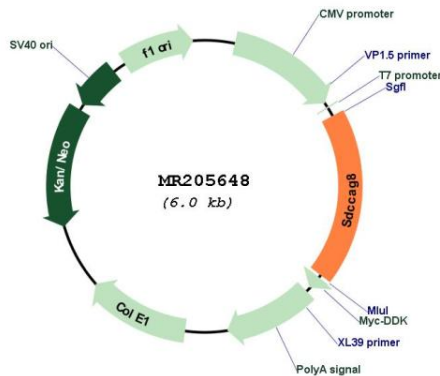
Locus ID: 76816

Cytogenetics: 1 H4

MW: 74.8 kDa

Gene Summary: Plays a role in the establishment of cell polarity and epithelial lumen formation (PubMed:20835237). Plays also an essential role in ciliogenesis and subsequent Hedgehog signaling pathway that requires the presence of intact primary cilia for pathway activation. Mechanistically, interacts with and mediates RABEP2 centrosomal localization which is critical for ciliogenesis (PubMed:27224062).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205648