

Product datasheet for **MG205648**

Sdccag8 (BC016244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdccag8 (BC016244) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sdccag8
Synonyms:	2700048G21Rik; 5730470G24Rik; Cccap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205648 representing BC016244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAGTCCCAGGGAAGTCTACCCTGGAGGACAGTCTGGGGCAATACCAACGGAGTCTCCGGGAAC
GTGCCAATAGAAGCATTACCAGTTGAAATGTGCCCTGAGAGAAGTGGATGTCAGTGTAGAAGAAGATGC
ACTGGATCCTCCACCAGCATCAACGTAGAAAATGAGGACACAGGGGTGGCCTGGCATGAGCTGCAGCAC
AGCCATGCTGCAATCAACTGAAAGCTTTGTTGCGTCAACAAACAATAAGGAAAATGAGACATCTCCAC
CGCGAAGACGAAAGTTGCCCCCTCGCGGCCGTCAGAATGTGACGATGGCAGCATGCCACCATGCACAA
CCTCGTTCTATCATTAAACGACCAGTCTCAATATATCCACCACTTAGAAGCAGAAGTCAAGTTCTGCAAG
GATGAATTGCTGGAATGAAAAATAGGGTGAAGTAGTTGACTTGTGAGAATGAAAGGCTCCAGCAAGAAC
TGAAATCTCAAAGACCGGAGGAGACATTGAGGGAGCAAACATTCTGGATGCATCTGAAACATGCAGAA
TTCTTGATTATGACACGAGAAGATTCTAGGGTGGATGAAGCTGCAAAGAGACCATTTTCTCATGGTGAT
GCTGAAACTGGCAAACTGCATCCACTGGTGTGCCAATAAATGGAAAGCTGGAGCTGGAGAGGCTGAAAC
TCACATACGAGGCGAAGACTGACCTTCTGGAATCTCAGCTGATGCTTCTGAGGAAAGACTTAGCTGAATA
CCAGAAAACCTGTGAGGATCTTAAGGAAAGATTGAAGCATAAAGAGTCTCTTCTGGCTGCGAGTGCATCC
AGCCGTGTGGTGGCCTCTGTTTGAATGTGCTCAGCATGAAGCTGTTCTTCCAGACACAGCAACG
TGACATCCAGACCATCGAGAGGCTGACTAAAGAGAGAGATGACTTAATGTCTGTGCTAGTCTCTGTGCG
GAGCAGCTTGGCAGAAGCGCAGAAGAGAGAGACAAGTGCCTATGAGCAGGTGAAGCATGCTGTGCAGATG
ACAGAGGAAGCCAACCTTTGAGAAGACCAAGACTGTATCCCTTGCCTGTGTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205648 representing BC016244
 Red=Cloning site Green=Tags(s)

MAKSPGNSTLEDSLQYQRSLRERANRSIHQLKCALREVDVTVEEDALDPSTSINVENEDTGVAWHELQH
 SHAVNQLKALLRQQTNKENETSPRRRRLSPSRPSECDDGSMPTMHNLPVIINDQSQYIHHLEAEVKFCK
 DELSGMKNRVQVVLENERLQQLKSRPEETLREQTFLDASGNMQNSWIMTREDSRVDEAAKRPFSHGD
 AETGKTASTGDANKWLELERLKLTYEAKTDLLESQMLLRKDLAEYQKTCEDLKERLKHKESLLAASAS
 SRVGGCLLKCAQHEAVLSQTHSNVHIQTIERLTKERDDLMSVLVSVRSSLAEAQKRETSAYEQVKHAVQM
 TEEANFEKTKTVSLACV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

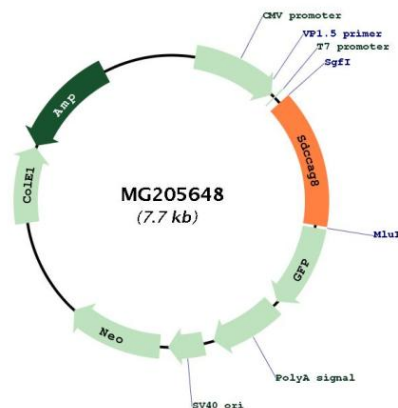
RefSeq ORF: 1103 bp

Locus ID: 76816

Cytogenetics: 1 H4

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 MG205648