

Product datasheet for **MC221021**

Sdccag8 (NM_029756) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdccag8 (NM_029756) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sdccag8
Synonyms:	2700048G21Rik; 5730470G24Rik; Cccap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221021 representing NM_029756
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAAGTCCCAGGGAAGTCTACCCTGGAGGACAGTCTGGGGCAATACCAACGGAGTCTCCGGGAAC
 GTGCCAATAGAAGCATTACCAGTTGAAATGTGCCCTGAGAGAAGTGGATGTCAGTGTAGAGAAGATGC
 ACTGGATCCTTCCACCAGCATCAACGTAGAAAATGAGGACACAGGGGTGGCCTGGCATGAGCTGCAGCAC
 AGCCATGTGTCAATCAACTGAAAGCTTTGTTGCGTCAACAAACAAATAAGGAAAATGAGACATCTCCAC
 CGGAAGACGAAAGTTGCCCTTCGCGGCCGTGAGAATGTGACGATGGCAGCATGCCACCATGCACAA
 CCTCGTTCCTATCATTACGACCAGTCTCAATATATCCACCCTTAGAAGCAGAAGTCAAGTTCTGCAAG
 GATGAATTGTCTGGAATGAAAAATAGGGTGAAGTGTACTTGAGAATGAAAGGCTCCAGCAAGAAC
 TGAATCTCAAAGACCGAGGAGACATTGAGGGAGCAAACATTCCTGGATGCATCTGAAACATGCAGAA
 TTCTTGATTATGACACGAGAAGATTCTAGGGTGGATGAAGCTGCAAAGAGACCATTTTCTCATGGTGAT
 GCTGAAACTGGCAAACTGCATCCACTGGTGATGCCAATAAATGGAAGCTGGAGCTGGAGAGGCTGAAAC
 TCACATACGAGGCGAAGACTGACCTTCTGGAATCTCAGCTGATGCTTCTGAGGAAAGACTTAGCTGAATA
 CCAGAAAACCTGTGAGGATCTTAAGGAAAGATTGAAGCATAAAGAGTCTTCTGGCTGCGAGTGCATCC
 AGCCGTGTGGGTGGCCTCTGTTTGAATGTGCTCAGCATGAAGCTGTTCTTTCCAGACACACAGCAACG
 TGCACATCCAGACCATCGAGAGGCTGACTAAAGAGAGAGATGACTTAATGTCTGTGCTAGTCTCTGTGCG
 GAGCAGCTTGGCAGAAGCGCAGAAGAGAGAGACAAGTGCCTATGAGCAGGTGAAGCATGCTGTGCAGATG
 ACAGAGGAAGCCAACCTTGGAGAAGCAAGGCTTTGATCCAGTGTGAGCAGCTGAAGAGTGAAGTGGAGA
 GGCAGACAGAAAAGACTGGAAAAGGAGCTTGCCTCTCAGCAAGAAAAGAGGGCTGTGGAGAAGGAGATGAT
 AAAGAAAAGAAGTAGCCAGAGAGAGGGAAGATGCAGAGTCAAAGATGTTGATCCTGTCTCAGAATATTGCC
 AAGCTGGAGGCCAGGTTGAAAAGGTACCAGGGAGAAGACTGCAGCTGTGAGTCACTTAGAGGAAATTC
 AGAACCACGTTGCGTCTCAGGAAATGGAGCTCACAAAGGTGTGTGGAGAAATGCGCTTTCAGTTGAATAA
 AACCAAAATGGAGAAGGATGAGGTGAAAAGGAACACAGAGAATACAAAGCAAAGTCTCACAAGGATCTT
 GAAATGAAAGTCCAGGAAATAGAGAAGTTGAGACTAGAAGTGAAGGAAAGCGAGCAGCATGTGGAACAGG
 AGCAGCAGAAGGCAGCTCGGGCCAGACAGGAGTGCCTGCGAGTACAGAGCTGCTGGGCGAGGCCGAGCG
 CCAACTGCACCTACCAGACTGGAAAAAGATAGCATTAGCAAAGCTTTAGCAATGAAGCAAAGGCCCAA
 GCCCTTACAGCCAGCAGAGAGAACAGGAGCTGACACAGAAGATACAGCAAATGGAGACCCAGCAGCACA
 AACTGAAAGTGAACAGTATTTACTGCTGACATCCCAGAACACATTTCTGACAAAATTAAGAAGAAATG
 CTGCTTGTAGCCAAGAACTGGAAAAGGTCTCACTAAAGAGCAGATCGCAAATAGTTCCACTTAGTCAA
 GAGAAGAGATACTTGTGTGACAAGCTAGAGAAGTTACAGAAGAGAAAATGACGAACTAGAAGAGCAATGCA
 TCCAACATGGGAGGGTGCATGAGACCATGAAGGAAAGACTCAGGCAGCTGGATAAGCACGGCCAGGCTAC
 AGCGCAGCAGCTGGTGCAGTTGCTTAACAAGCAGAATCAGCTTCTCCTGGAGCGACAGAACCTGTCTGAG
 GAAGTGGCCCGGCTGCGAGCGCAGTTACCCAGCATGCCACAATCTGATTGCT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029756

Insert Size: 2154 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_029756.3</u> , <u>NP_084032.1</u>
RefSeq Size:	2771 bp
RefSeq ORF:	2154 bp
Locus ID:	76816
UniProt ID:	<u>Q80UF4</u>
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]