

## Product datasheet for **MR206951**

### **Sugct (NM\_138654) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sugct (NM_138654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sugct
Synonyms:	5033411D12Rik; D17907
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206951 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGGATGTGCCAGGGCGGTGGCTTTTCGGAGACCCGGCCGAGGCCTGGCCGGCGGGAGGGGGC  
 TGTGGACCGGCCCGCAGTCAGATTGTGACAGTATGAAGCCCTGGAGGGTGTGAGAATTCTGGATCT  
 AACAAAGAGTACTGGCAGGACCCTTTCCACGATGAATTTAGGAGATCTTGAGCAGAAAGTTATAAAAGTT  
 GAAAGACCAGGAGCTGGTGTGACACACGATCTTGGGGACCTCCTTTTGTGAACACTGAAAGTACATATT  
 TTCTTAGTGTTAATCGAAATAAAAAAGTATAGCTGTTAATATCAAGGATCCAAGAGGAGTGAAGATCGT  
 CAAAGAGCTTGCAGCCATTTGTGATGTGTTTGTGGAAACTATGTTCTGGGAACTTTCTGAGATGGGC  
 CTAGGATATGAAGATATAGATAAGATTGCTCCTCACATCATCTACTGCTCCATCACAGGATATGGCCAGA  
 CAGGGCCCATGTCTCACAGAGCAGGTTATGATGCTATTGCTTCTGCTATGTCTGGTCTAATGCACATCAC  
 AGGACCTGAGGATGGAGATCCTGTTCCGCTGGAGTGGCCATGACTGACCTCGCCACTGGTCTTTTTGCT  
 TATGGGGCCATTATGGCTGGCCTCTACAACGTTATAGAAGTGGAAAAGGACTGTTCAATTGATTGTAATC  
 TGCTGTATCACAGGTGGCATGTTTGACCAAGTAGCTGCTAATTATCTTATTGGACAAAAGGAAGCGAA  
 ACGCTGGGGCACAGCTCATGGCAGTATTGTTCTTATCAGGCTTTTAAAACCAAGGATGGCTATCTTGTA  
 ATTGGAGCAGGAAATAACCAACAGTTTGTCTGTGGTATGCAAGATCTTGAATTTGCCTGAAGTATCGATG  
 ATTCCAAGTATAGAACGAACCATCTTCGGGTACAGAATAGAAAAGAGCTTGTGAAAATCCTTTGAGCAGC  
 GTTTCAGAAAGAGTGACTGCCAAGTGGCTTTGTCTCTTTGAAGGAAGTGGGATCCCATATGGACCAATC  
 AACAGCCTGAAGGATGTGTTTTCAGAAGCCAGGATTGCACAATGGCCTTGTATGGAGATGAATCATC  
 CAACTGTGGGGAAGATTTTCAGTCCAGGTCAGCTGTGAGATACAGCAAGTTCAAGATGTCAGAGGCAAA  
 GCCACCTCCCCTGCTGGGACAGCATACAAGGCATATCCTGAAGGAGGTCCTCAGATATGATGAGGGGGCT  
 ATTGAGAAGCTACTCTGCTCTGGTGTGATAGAGCAACATGAAACCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206951 protein sequence  
 Red=Cloning site Green=Tags(s)

MLWMLARAVAFRRPGRGLAGGRGLWTGRPQSDCDSMKPLEGVRIIDLTRVLAGPFATMNLGDLGAEVIK  
 ERPGAGDDTRSWGPPFVNTSTYFLSVNRNKKSIAVNIKDPGRVIVKELAAICDVFVENYVPGKLESEM  
 LGYEDIDKIAPHIIYCSITGYGQTGPMHRAGYDAIASAMSGLMHITGPEDGDPVRPGVAMTDLATGLFA  
 YGAIMAGLLQRYRTGKGLFIDCNLLSSQVACLQVAANYLIGQKEAKRWGTAHGSIVPYQAFKTKDGYLV  
 IGAGNNQFQFAVCKILNLPIDDSKYRTNHLRVQNRKELVKILSARFAEEVTAKWLCLFEGSGIPYGP  
 NSLKDVFSQAQVHLNGLVMEMNHPTVGKISVPGPAVRYSKFKMSEAKPPPLLQGHTRHILKEVRLRYDEGA  
 IEKLLCSGVIEQHETK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_138654

ORF Size: 1311 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: [NM\\_138654.2](#), [NP\\_619595.2](#)

RefSeq Size: 1727 bp

RefSeq ORF: 1311 bp

Locus ID: 192136

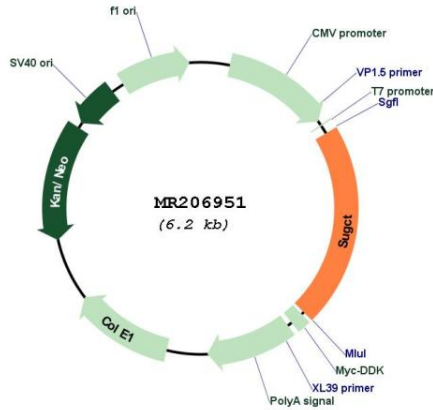
UniProt ID: [Q7TNE1](#)

Cytogenetics: 13 A2

MW: 47.7 kDa

Gene Summary: Catalyzes the succinyl-CoA-dependent conversion of glutarate to glutaryl-CoA. Can use different dicarboxylic acids as CoA acceptors, the preferred ones are glutarate, succinate, adipate, and 3-hydroxymethylglutarate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206951