

Product datasheet for **RN214147**

Sugct (NM_001014146) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sugct (NM_001014146) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sugct
Synonyms:	RGD1308114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN214147 representing NM_001014146
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTGCGGATGCTGGCCAGGGCGGTGGCTTTTCGGAGATCCGGCCGAGGCCAGGCCGGCGGGAGGGGGC
 TGTGGACCGGCCGCCACAGTCAGATTGTGACAGTATGAAGCCACTGGAGGGTGTGAGAATTCTGGATCT
 AACAGAGTTCTGGCTGGACCTTTGCCACGATGAATTTAGGAGATCTGGGAGCAGAAGTTATAAAAGTG
 GAGAGACCAGGAGCTGGTGATGACACACGATCTTGGGGACCTCCTTTGTGAACACAGAAAGTACATATT
 TTCTTAGTGTTAATCGAAATAAAAAAGTATAGCTGTTAATATCAAGGATCCAAGAGGAGTGAGAATCGT
 CAAAGAGCTTGCAGCCATTTGTGATGTGTTGTGGAAACTATGTCCCTGGGAAGCTTTCTGAGATGGGC
 CTAGGATATGCAGATATAGATAAGATTGCGCTCACATCGTCTACTGCTCCATCACAGGATATGGCCAGA
 CAGGGCCCATGTCTCACAGAGCAGGCTATGATGCTATTGCCTCTGCTATGTCTGGTCTAATGCACATCAC
 AGGACCTGAGGATGGAGATCCTGTTCCGCCAGGAGTGGCCATGACTGATCTTGCCACTGGCCTTTTGGC
 TATGGGGCGATTATGGCTGGCCTCATACAACGTTACAGAACTGGAAAAGGATTGTTTATCGATTGTAATC
 TACTGTCATCCCAGGTGGCATGTTTGACCCAAGTAGCTGCCAATTATCTTATTGGACAAAAGGAAGCCAA
 ACGCTGGGGCACAGCTCATGGCAGTATTGTTCCGTATCAGGCCTTTAAGACCAAGGACGGCTATCTTGTC
 ATTGGAGCAGGAAATAACCAGCAGTTTGTCTGTTTATGCAAGTCTTGAATTTGCCTGAATTGATTGATG
 ACAGCAAGTATAGAACGAACACCTTCGGGTACAGAAAGAGCTTGTGAAATCCTATCGGCACG
 GTTTCAGAGAAGAGTGACTGCCAAGTGGCTTTGTCTCTTTGAAGGAAGTGGGATCCCATATGGCCCAATC
 AACAGTCTGAAGGATGTGTTTCCGAAGCCAGGTATTGCACAATGGCCTCGTTATGGAGATGAATCATC
 CCACTGTGGGGAAGATTTTCGGTCCCAGGTCCAGCTGTGAGATACAGCAAGTTCAAGATGTCAGAGGCAAA
 GCCACCCCTCTGCTGGGACAACACACAAGGCACATCCTGAAGGAGGTCCTTAGATATGATGAGGGGGTC
 ATTGGAGAGCTACTCTGCTCTGGTGAATAGAGCAACATGAAACCGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001014146

Insert Size: 1311 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:

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_001014146.1, NP_001014168.1

RefSeq Size: 1734 bp

RefSeq ORF: 1311 bp

Locus ID: 361253

UniProt ID: [Q68FU4](#)

Cytogenetics: 17q11-q12.1

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]