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Product datasheet for MG206951

Sugct (NM_138654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sugct (NM_138654) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sugct
Synonyms:	5033411D12Rik; D17907
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206951 representing NM_138654
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTGGATGCTGGCCAGGGCGGTGGCTTTTCGGAGACCCGGCCGAGGCCTGGCCGGCGGGAGGGGGC
TGTGGACCGGCCGCCCGCAGTCAGATTGTGACAGTATGAAGCCCCTGGAGGGTGTGAGAATTCTGGATCT
AACAAGAGTACTGGCAGGACCCTTTGCCACGATGAATTTAGGAGATCTTGGAGCAGAAGTTATAAAAGTT
GAAAGACCAGGAGCTGGTGATGACACACGATCTTGGGGACCTCCTTTTGTGAACACTGAAAGTACATATT
TTCTTAGTGTTAATCGAAATAAAAAAAGTATAGCTGTTAATATCAAGGATCCAAGAGGAGTGAGAATCGT
CAAAGAGCTTGCAGCCATTTGTGATGTGTTTGTGGAAAACTATGTTCCTGGGAAACTTTCTGAGATGGGC
CTAGGATATGAAGATATAGATAAGATTGCTCCTCACATCATCTACTGCTCCATCACAGGATATGGCCAGA
CAGGGCCCATGTCTCACAGAGCAGGTTATGATGCTATTGCTTCTGCTATGTCTGGTCTAATGCACATCAC
AGGACCTGAGGATGGAGATCCTGTTCGCCCTGGAGTGGCCATGACTGACCTCGCCACTGGTCTTTTTGCT
TATGGGGCCATTATGGCTGGCCTCCTACAACGTTATAGAACTGGAAAAGGACTGTTCATTGATTGTAATC
TGCTGTCATCACAGGTGGCATGTTTGACCCAAGTAGCTGCTAATTATCTTATTGGACAAAAGGAAGCGAA
ACGCTGGGGCACAGCTCATGGCAGTATTGTTCCTTATCAGGCTTTTAAAACCAAGGATGGCTATCTTGTA
ATTGGAGCAGGAAATAACCAACAGTTTGCTGTGGTATGCAAGATCTTGAATTTGCCTGAACTGATCGATG
ATTCCAAGTATAGAACGAACCATCTTCGGGTACAGAATAGAAAAGAGCTTGTGAAAATCCTTTCAGCACG
GTTTGCAGAAGAAGTGACTGCCAAGTGGCTTTGTCTCTTTGAAGGAAGTGGGATCCCATATGGACCAATC
AACAGCCTGAAGGATGTGTTTTCAGAAGCCCAGGTATTGCACAATGGCCTTGTTATGGAGATGAATCATC
CAACTGTGGGGAAGATTTCAGTCCCAGGTCCAGCTGTGAGATACAGCAAGTTCAAGATGTCAGAGGCAAA
GCCACCTCCCCTGCTGGGACAGCATACAAGGCATATCCTGAAGGAGGTCCTCAGATATGATGAGGGGGCT
ATTGAGAAGCTACTCTGCTCTGGTGTGATAGAGCAACATGAAACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

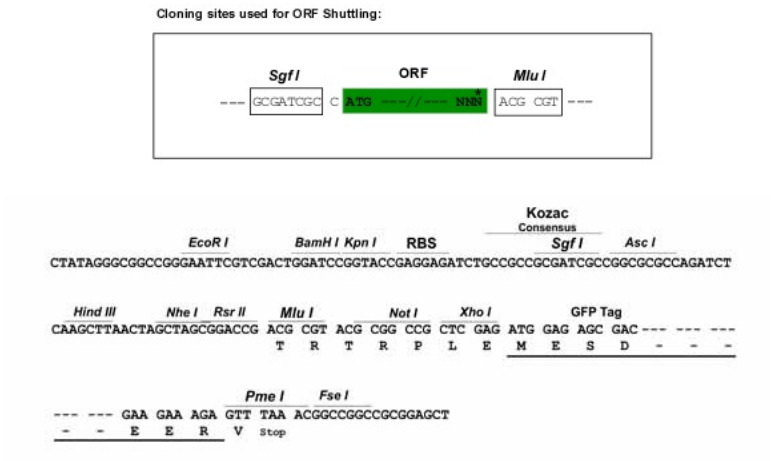
>MG206951 representing NM_138654
Red=Cloning site Green=Tags(s)

MLWMLARAVAFRRPGRGLAGGRGLWTGRPQSDCDSMKPLEGVRILDLTRVLAGPFATMNLGDLGAEVIKV
ERPGAGDDTRSWGPPFVNTESTYFLSVNRNKKSIAVNIKDPRGVRIVKELAAICDVFVENYVPGKLSEMG
LGYEDIDKIAPHIIYCSITGYGQTGPMSHRAGYDAIASAMSGLMHITGPEDGDPVRPGVAMTDLATGLFA
YGAIMAGLLQRYRTGKGLFIDCNLLSSQVACLTQVAANYLIGQKEAKRWGTAHGSIVPYQAFKTKDGYLV
IGAGNNQQFAVVCKILNLPELIDDSKYRTNHLRVQNRKELVKILSARFAEEVTAKWLCLFEGSGIPYGPI
NSLKDVFSEAQVLHNGLVMEMNHPTVGKISVPGPAVRYSKFKMSEAKPPPLLGQHTRHILKEVLRYDEGA
IEKLLCSGVIEQHETK

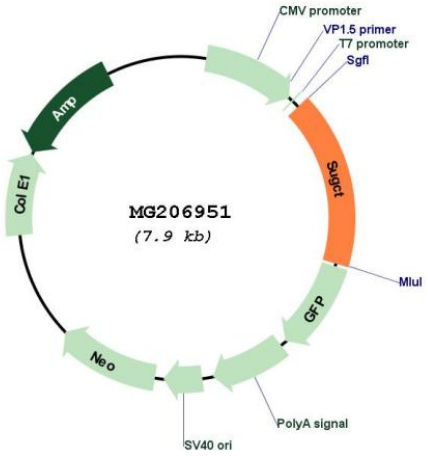
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138654

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ORF Size:	1308 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:	1710 bp
RefSeq ORF:	1311 bp
Locus ID:	192136
UniProt ID:	Q7TNE1
Cytogenetics:	13 A2
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]

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