

Product datasheet for **MG207397**

Sucla2 (NM_011506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sucla2 (NM_011506) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sucla2
Synonyms:	4930547K18Rik; A-SCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207397 representing NM_011506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCGCTCCATGTTCTACGGCCGGCAGTTGGCCGGCCGCCCTGAGGAGCCACCGGCCGAGACTA
 CGCTGCGAGCCGCGCCAGTTCTGGGAAATCTGGCTTGTTTAACAAGCATGGACTACAAGTGCAGCA
 GCAGCAGCAGAGGACCCTTTCGCTGCATGAATACTTGAGTATGGAGTTATTGCAGGAAGCGGGTGTCTCT
 GTTCCCAAAGGCTTCGTGGCAAAGTCATCCGATGAAGCTTACGCAATTGCCAAAAAATTAGGATCAAAGG
 ATGTTGTGATAAAGGCACAGGTTTTGGCTGGCGCAGAGGAAAAGGAACATTTACAAGTGGCCTCAAAGG
 AGGAGTGAAGATTGTTTTCTCTCCAGAAGAAGCAAAGCTGTTTCCTCACAGATGATTGGGCAAAAATTG
 ATTACCAAGCAAAGTGGAGAAAAGGCGAGAATATGCAATCAAGTTTTGGTCTGTGAGCGCAAAATATCCCA
 GGAGAGAATACTACTTTGCAATAACAATGGAGAGGTCATTTCAAGTCTGTACTGATAGGAAGTGCACA
 AGGTGGTGTAAACATTGAAGATGTGGCTGCCGAGAACCCTGAAGCATTGTAAGGAGCCTATTGATATA
 GTGGAGGGCATCAAAAAGGAACAAGCCGTGACACTTGCACAGAAGATGGGATTTCTTCTAACATTGTGG
 ACTCTGCAGCAGAAAAATGATCAAGCTTTATAATCTTTTTCTGAAGTATGATGCAACTATGGTAGAAAT
 AAACCAATGGTAGAAGATTCTGACGAAAGGTGTTGTGCATGGATGCAAAGATCAATTTTGATTCAAAT
 TCAGCCTACCGCCAGAAGAAGATCTTTGATCTTCAGGACTGGAGTCAGGAAGACGAAAGGGACAAAGAAG
 CAGCTAATGCAGATTAACATACATCGGCTCGATGGGAGCATAGGATGTCTAGTAAATGGTGTGGCTT
 GGCTATGGCCACAATGGATATAAATAAAGTACACGGAGGGACTCCAGCCAACCTTTCTGATGTTGGTGGG
 GCGCCACAGTCCAGCAAGTAACAGAAGCGTTAAACTCATCACTTCAGATAAAAAGTGCAGGCTATTC
 TGGTCAACATTTTGGAGGAATCATGAGATGTGATGTTATTGCACAAGGAATAGTCATGGCAGTAAAGGA
 TTAGAAATCAGAATACCTGTTGTGGTGCAGTTACAAGGTACACGAGTTGATGATGCTAAGGCACTAATA
 GCAGACAGTGGTCTTAAATCCTTGCTGTGATGATTTGGATGAAGCTGCTAAAATGGTTGTAAAGCTCT
 CTGAAATAGTGACCTTAGCCAAAGAAGCCCATGTGGATGTGAAGTTTCAATTGCCAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207397 representing NM_011506
 Red=Cloning site Green=Tags(s)

MAASMFYGRQLAAAAALRSHRPQTTLRAAAQVLGNSGLFNKHGLQVQQQQQRTLSLHEYLSMELLQEAGVS
 VPKGFFVAKSSDEAYAIKKLGSKDVIKAQVLAGGRGKGTFTSGLKGGVKIVFSPEEAKAVSSQMIGQKL
 ITKQTGEKGRICNQVLVCERKYPRREYYFAITMERSFQGPVLIGSAQGGVNIEDVAAENPEAIVKEPIDI
 VEGIKKEQAVTLAQKMGFSPNIVDSAAENMIKLYNLFLKYDATMVEINPMVEDSDGKVLMDAKINFDSN
 SAYRQKKIFDLQDWSQEDERDKAANADINYIGLDGSIQCLVNGAGLAMATMDI IKLHGGTPANFLDVG
 GATVQQVTEAFKLITSDKKVQAILVNIFFGIMRCDVIAQGI VMAVKDLEIRIPVVVRLQGTRVDDAKALI
 ADSGLKILACDDLDEAAKMVVKLSEIVTLAKEAHVDVKFQLPI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	NM_011506.4
RefSeq Size:	2109 bp
RefSeq ORF:	1392 bp
Locus ID:	20916
UniProt ID:	Q9Z2I9
Cytogenetics:	14 D3
Gene Summary:	ATP-specific succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of ATP and thus represents the only step of substrate-level phosphorylation in the TCA. The beta subunit provides nucleotide specificity of the enzyme and binds the substrate succinate, while the binding sites for coenzyme A and phosphate are found in the alpha subunit.[UniProtKB/Swiss-Prot Function]