

Product datasheet for **MR202614**

Sucla2 (BC052774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sucla2 (BC052774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sucla2
Synonyms:	4930547K18Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR202614 representing BC052774 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCAAATTCTATAATCTTTTTCTGAAGCATGATGCAACTATGGTAGAAATAAACCAATGGTAGAAG
ATTCTGACGAAAGGTGTTGTGCATGGATGCAAAGATCAATTTTGATTCAAATTCAGCCTACCGCCAGAA
GAAGATCTTTGATCTTCAGGACTGGAGTCAGGAAGACGAAAGGGACAAAGAAGCAGCTAATGCAGATATT
AACTACATCGGCCTCGATGGGAGCATAGGATGTCTAGTAAATGGTGTGGCTTGGCTATGGCCACAATGG
ATATAATAAAACTACACGGAGGGACTCCAGCCAATTTCTTGATGTTGGTGGAGGCGCCACAGTCCAGCA
AGTAACAGAAGCGTTTAACTCATCACTTCAGATAAAAAGGTGCAGGCTATTCTGGTCAACATTTTTGGA
GGAATCATGAGATGTGATGTTATTGCACAAGGAATAGTCATGGCAGTAAAGGATTTAGAAATCAGAATAC
CTGTTGTGGTGGGTTACAAGGTACACGAGTTGATGATGCTAAGGCACTAATAGCAGACAGTGGTCTTAA
AATCCTTGCTTGATGATTTGGATGAAGCTGCTAAAAATGGTTGTAAGCTCTCTGAAATAGTGACCTTA
GCCAAAGAAGCCCATGTGGATGTGAAGTTTCAATTGCCAATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202614 representing BC052774
 Red=Cloning site Green=Tags(s)

MIKFYNLFLKHDATMVEINPMVEDSDGKVL C M D A K I N F D S N S A Y R Q K K I F D L Q D W S Q E D E R D K E A A N A D I
 N Y I G L D G S I G C L V N G A G L A M A T M D I I K L H G G T P A N F L D V G G G A T V Q Q V T E A F K L I T S D K K V Q A I L V N I F G
 G I M R C D V I A Q G I V M A V K D L E I R I P V V V R L Q G T R V D D A K A L I A D S G L K I L A C D D L D E A A K M V V K L S E I V T L
 A K E A H V D V K F Q L P I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

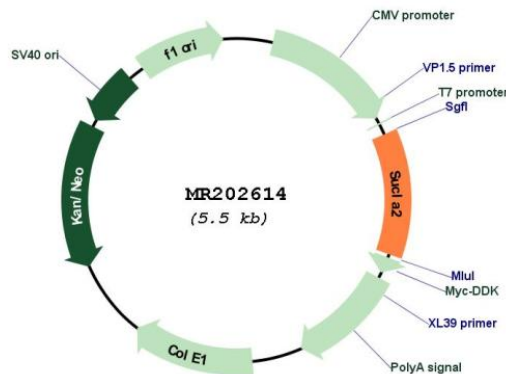
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: BC052774

ORF Size: 672 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:	<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:	BC052774.1
RefSeq Size:	1180 bp
RefSeq ORF:	674 bp
Locus ID:	20916
Cytogenetics:	14 D3
MW:	43.2 kDa
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]