

Product datasheet for **RR210422**

Slc27a2 (NM_031736) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a2 (NM_031736) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a2
Synonyms:	MGC93337
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210422 representing NM_031736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCTGTGCTCTACACCGCCTGGCGGGGCTGCTGTGCTGCCTCTGCTGCTCACCTGCTGCTGCC
 CCTACCTCCTCCAGGACGTGCGGTTCTTCTGCAACTGGCCAACATGGCCCGGCAGGTGCGCAGCTACCG
 GCAGCGCGACCCGTCGCCACCATCCTGCATGTCTTCTGGAGCAAGCGCGCAAGACCCCGCACAAAGCC
 TTCCTGTGTTTTCGGACGAGACGCTTACCTACGCCAGGTAGACCGCGCAGCAACCAAGTAGCGCGAG
 CGCTGCATGATCACCTGGGCTGCGGCAGGGGATTGCGTGGCCCTTTCATGGGCAATGAGCCGGCCTA
 CGTGTGGCTCTGGCTGGGACTGCTCAAAGTGGGCTGTCCCATGGCGTGCCTCAACTACAACATCCGTGCC
 AAGTCTCTGCTACACTGCTTTCAGTGTGCGGGGCGAAGGTGCTGCTGGCCTCCCAGAGCTACACGAAG
 CTGTGAGGAGGTTCTTCAACCCTGAAAAGGAGGGCGTGTCCGTCTTCTACGTAAGCAGAAGTCTTAA
 CACTAATGGCGTGGACACAGTACTGGACAAAGTAGACGGGGTGTGGCGGACCCCATCCCGAGTCTGG
 AGGTCTGAAGTACGTTACCACACCCGAGTCTACATATATACTTCGGGACCCAGGCTTCCAAAGG
 CTGCAACCATAATCACCATCGCCTCTGGTATGGGACCAGCCTTGCCCTGAGGTCCGGAATTAAGGCTCA
 TGACGTCTACACCACCATGCCCTGTACCACAGCGCGGCGCTCATGATTGGCCTCCACGGATGCATT
 GTGGTTGGGGCTACATTTGCTTTGCGGAGCAAATTTTCAGCCAGCCAGTTTTGGGACGACTGCAGGAAAT
 ACAACGCCACTGTCAATCAGTACATCGGTGAAGTCTTCGGTACCTCTGCAACACGCCCCAGAAACAAA
 TGACCGGGACCAAAGTAAAAAGTACTAGGAAATGGCTTACGAGGAGATGTGTGGAGAGAGTTTATC
 AAGAGATTTGGGACATTCACATTTATGAGTCTACGCTTCCACTGAAGGCAACATTGGATTTATGAAGT
 ATCCAAGAAAAATCGGAGCTGTTGGAAGAGAAAAATACCTACAAAAAAAGTTGTAAGGCACGAGCTGAT
 CAAGTATGACGTGGAGAAGGATGAGCCTGTCCGTGATGCAAATGGATATTGCATCAAAGTCCCAAGGA
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 GATGATCGACCGTAAAAATTTCTATTTTTACGACAGAGTTGGAGACACCTTCCGGTGGAAAGGAGAG
 AATGTAGTACCACGGAAGTCTGACATTGTGGGACTGGTAGATTTTGTGAAGAAGTGAATGTTTACG
 GTGTGCCCGTCCAGGTCATGAAGTTCGCATCGGGATGGCCTCGATCAAGATGAAAGAAAACACGAGTT
 CAATGAAAGAAACTCTTTCAGCACATCTCGGAGTACCTGCCAGTACTCGAGGCTCGGTTCTGAGA
 ATACAAGATACCATTGAGATCACCGGACTTTTAAACACCGCAAAGTACCCTGATGGAAGAGGGCTTTA
 ACCCCTCAGTCATCAAAGATACCTGTATTTTCATGGATGACACAGAAAAACATACGTGCCCATGACTGA
 GGACATTTATAATGCCATAATTGATAAGACTCTGAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR210422 representing NM_031736
 Red=Cloning site Green=Tags(s)

MLPVLYTGLAGLLLLPLLLTCCPCYLLQDVRFFLQLANMARQVRSYRQRRPVRTLHVLFLEQARKTPHKP
 FLLFRDELTLYAQVDRRSNQVARALHDHLGLRQGDVALFMGNEPAYVWLWGLLKLGCMACLNYNIRA
 KSL LHCFQCCGAKVLLASPELHEAVEEVLPTLKKEGVSVFYVSRSTNTNGVDTVLDKVDGVSADPIPESW
 RSEVFTTTPAVYIYTSGTTGLPKAATINHRLWYGTSLALRSGIKAHDVIYTTMPLYHSAALMIGLHGCI
 VVGATFALRSKFSASQFWDDCRKYNATVIQYIGELLRYLCNTPQKPNDRDHVKIALGNLGRDGVWREFI
 KRFGDIHIYEFYASTEGNIGFMNYPRKIGAVGRENLYQKVVVREL IKYDVEKDEPVRDANGYCIKVPKG
 EVGLLICKITELTPFFGYAGGKTQTEKKLRDVFKKGDVVFNSGDLDMIDRENFIYFHDRVGDTRFWKGE
 NVATTEVADIVGLVDFVEEVNVYGVVPGHEGRIGMASIKMKNYEFNGKLFQHISEYLPYSRPRFLR
 IQDTIEITGTFKHKRVTLMEEGFNPSVIKDTLYFMDDTEKTYVPMTEIYNIAIDKTLKL

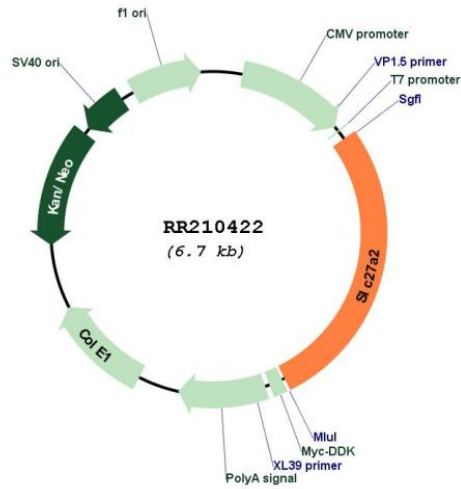
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031736

ORF Size: 1860 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:	NM_031736.1 , NP_113924.1
RefSeq Size:	2963 bp
RefSeq ORF:	1863 bp
Locus ID:	65192
UniProt ID:	P97524
Cytogenetics:	3q36
MW:	70.7 kDa
Gene Summary:	has very long-chain acyl-CoA synthetase activity; may play a role in fatty acid metabolism [RGD, Feb 2006]