

## Product datasheet for **RR204970**

### **Sqle (NM\_017136) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sqle (NM_017136) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sqle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR204970 representing NM\_017136  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTGGACTTTTCTTGAATTGCTACTTTCACCTATTTTTATAAGAAATGCGGGGATGTCACCCTGGCCA  
 ACAAGGAGCTCCTGCTGTGCGTACTGGTGTTCCTGTCGCTGGCCCTGGTGTCTCTACCCTGTGCGCA  
 TCGAAACGGGGCCTCCTTGGCCGCATCAGAGCGGCTCCAGTTTCGCTGCCTTCTCAGATATTCTCTCT  
 GCTTTGCCTTTATTGGCTTCTTCTGGGCCAAATCACCCCTGAATCAGAAAAGAAAGAACAGCTGGAGT  
 CCAAGAGGCGCAGAAAAGAAGTCAATCTGTGAGAGACGACGTTAACGGGAGCAGCTACCTCAGTATCGAC  
 ATCATCTGTGACGGACCCAGAAGTATCATCATAGGGTCTGGTGTACTTGGCTCTGCTTTGGCAACAGTA  
 CTCTCTAGAGATGGAAGAACGGTACAGTAATCGAGAGAGATTTAAAAGAGCCTGACAGAATACTGGAG  
 AGTGTCTGCAGCCGGTGGCTATCGAGTCTTCGAGAGCTGGCCTTGGAGATACAGTAGAAAGTCTTAA  
 TGCCCATCATATACACGGCTACGTAATTCATGACTGTGAAAGCAGGTCTGAAGTCAAATCCATACCCG  
 GTGTCAGAAAACAACCAAGTACAGAGTGGGGTTGCTTCCACCATGGCAAGTTCATCATGAGTCTCCGGA  
 AAGCAGCTATGGCAGAGCCCAATGTAAAGTTTATAGAAGGTGTTGTGCTTCGGTACTAGAGGAAGATGA  
 TGCTGTGATTGGTGTGCAATACAAGGACAAGGAGACTGGGGACACCAAGGAGCTCCATGCCCCGCTCACT  
 GTTGTGGCCGACGGGCTCTTCTCCAAGTTCAGGAAGAACCCTCATCTCCAATAAAGTCTCTGTTTCTCCC  
 ACTTCGTTGGCTTCATTAGAAGGATGCACCACAGTTTAAAGCCAATTCGCGGAGCTTGTCTGGTCGA  
 TCCCAGTCCAGTCTCATCTACCAGATTCACCCAGCGAAACTAGGGTGTGTGATATTCGAGGAGAA  
 TTGCCAAGAACTTAAGAGAATACATGACAGAACAATTTACCCACAGATACCTGATCACTTGAAGGAAT  
 CATTCTGGAGGCTGTGAGAATGCTCGTCTGCGGACCATGCCAGCAAGCTTCTTCTCCTTCTCCTCAGT  
 GAACAAACGAGGGCTCCTACTTCTGGGAGATCGGTATAAACCCTGAGGCATCCTCTTACTGGTGGAGGAATG  
 ACAGTCGCTTTAAAAGATATAAAAATATGGAGACAACGTAAAAGATATTCTGACCTTTATGATGATG  
 CCGCTATTTCCAGGCCAAAAAGTCACTTTTGGTCAAGAAAAAGGAGCCATTCTTTGTTGTGAACGT  
 GCTGGCTCAGGCTTGTATGAACTATTTCTGCTACAGATGATTCCTTGCCTCAGCTCCGAAAAGCTTGC  
 TTTCTTTATTTAAACTTGGTGGAGAATGTTGACTGGTCTGTTGGGTTGCTTCTATATTGTCTCCTG  
 ACCCTCTCTATTGATTCGACACTTCTTCTCCGTTGCAGTCTATGCCACGATTTCTGCTCAAGTCAGA  
 GCCATGGGCTACAAAACCTCGGGCTCTTTTCAGTAGTGGTGTACTGTACAAAGCGTGTCTATAATA  
 TTTCTCTCATCTATTAGAAAATGAAGTATCTGGTTAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204970 representing NM\_017136  
 Red=Cloning site Green=Tags(s)

MWTFGLIATFTFYKCKGDVTLANKELLLCVLVFLSLGLVLSYRCRHRNGLLGRHQSGSQFAAFSDILS  
 ALPLIGFFWAKSPPESEKKEQLESKRKRKEVNLSETTLTGAATSVSTSSVTDPEVIIIGSGVLGSALATV  
 LSRDGRVTVIERDLKEPDRILGECLQPGYRVLRELGLGDTVESLNAHHIHGYVIHDCESRSEVQIPYP  
 VSENNQVQSGVAFHHGKFIMSLRKAAMAEPNVKFIIEGVVLRLLLEEDDAVIGVQYKDKETGDTKELHAPLT  
 VVADGLFSKFRKNIISNKVSVSSHVGFIMKDAPQFKANFAELVLVDPSPVLIYQISPSETRVLDIRGE  
 LPRNLREYMTEQIYPQIPDHLKESFLEACQNRRLTMPASFLLPSSVNRKRVLLLGDAYNLRHPLTGGGM  
 TVALKDIKIWRQLLKDIPDLYDDAAIFQAKKSFWSRKRSHSFVNVLAQALYELFSATDDSLRQLRKAC  
 FLYFKLGGELTGPVGLLSILSPDPLLLIRHFFSVAVYATYFCFKSEPWATKPRALFSSGAILYKACSI  
 FPLIYSEMKYLVH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_017136

ORF Size: 1719 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\\_017136.2](#), [NP\\_058832.1](#)

RefSeq Size: 2085 bp

RefSeq ORF: 1722 bp

Locus ID: 29230

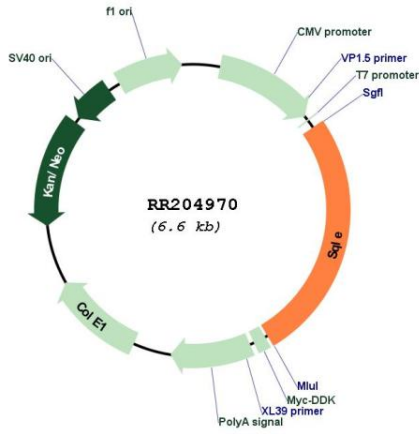
UniProt ID: [P52020](#)

Cytogenetics: 7q33

MW: 64 kDa

Gene Summary: enzyme that catalyzes sterol biosynthesis; may be the rare-limiting step in sterol biosynthesis pathway [RGD, Feb 2006]

**Product images:**



Circular map for RR204970