

## Product datasheet for **MR209004**

### **Sqle (NM\_009270) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sqle (NM_009270) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sqle
Synonyms:	A1323792
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR209004 representing NM\_009270  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGACTTTTCTTGGCATTGCTACCTCACCTATTTTTATAAGAAATGCGGGGATGTCACCCTGGCCA  
 ACAAGGAGCTCCTGCTGTGCGTGTGGTTCCTGTCGCTGGCCCTGGTCTCTCTACCCTGTGCGCA  
 TCGACACGGGGCCTCCTTGGCCGCATCAGAGCGGCGCCAGTTCGCTGCCTTCTCGGATATTCTCTCT  
 GCTTTGCCTCTTATTGGCTTCTTCTGGGCCAAGTACCTGAATCAGAAAAGAAAGAACAGCTGGAGTCCA  
 AGAAGTGCAGAAAAGAAATCGGTCTTTCAGAAACGACATTAACAGGAGCAGCTACCTCAGTGTGACCTC  
 GTTCGTGACGGACCCGGAAGTATCATCGTGGGATCTGGTGTGCTTGGATCTGCCTTGGCAGCAGTTCTC  
 TCCAGAGATGGAAGAAAGGTGACGGTATCGAGAGAGATTTAAAAGAGCCCGACAGGATAGTTGGGGAGC  
 TGCTGCAGCCAGGAGGCTACCGTGTTCAGGAGCTGGCCCTTGGAGATACAGTAGAAGGTCTCAATGC  
 CCATCATATACATGGCTACATAGTTCATGACTATGAAAGCAGATCTGAAGTTCAAATTCGTACCCACTG  
 TCAGAAAACCAACCAAGTGCAGAGTGAATTCGTTTTACCATGGCCGATTCATCATGAGTCTCCGAAAG  
 CAGCTATGGCAGAGCCCAATGTAAGTTTATAGAAGGTGTTGTGCTTCAGTTACTAGAGGAAGATGATGC  
 TGTAAATCGGCGTGAATACAAGGACAAGGAGACTGGGGACACCAAGGAGCTCCACGCCCCGCTCACCGTT  
 GTTGCGGATGGACTCTTCTCAAGTTCAGGAAGAGCCTCATCTCCAGTAAAGTCTCCGTTTCTTCCACT  
 TCGTTGGCTTCTTATGAAGGATGCACCACAGTTAAACCAATTTTGGCGAGCTGTTCTGGTCAACCC  
 CAGTCCAGTTCATCTACCAGATTTCTCCAGTAAACTAGGGTACTTGTGATATTCGGGGAGAATTG  
 CCAAGAACCTAAGAGAATACATGGCTGAACAAATTTACCCACAGTTACCTGAGCACCTGAAGGAGTCA  
 TTCTGGAGGCCTCTCAGAATGGTCTGCGGACCATGCCGGCCAGCTTCTTCTCCTCAGTGAA  
 CAAACGAGGCGTCTTATTCTGGGAGATGCGTATAACCTGAGGCACCCTTACTGGTGGAGGAATGACA  
 GTTGCTTTAAAAGATATAAAATTTGGGAGACAAGTGTAAAAGACATTCCTGACCTTTATGATGATGCTG  
 CTATTTTCCAGGCCAAAAATCATTCTTTTGGTCAAGAAAAAGGACCCATTCTTTGTTGTGAATGTATT  
 GGCTCAGGCCTTGTATGAATTTTTCAGCTACAGATGATTCCTTGCATCAGCTCCGAAAAGCTTGTCTT  
 CTGTATTTAACTTGGTGGAGAGTGTGTGACCGGCTCTGTTGGGTTGCTTTCAATATTGTCTCCTCACC  
 CTCTGGTGTGATTCGACACTTCTTTCCGTTGCAATCTACGCCAGTATTTCTGCTTCAAATCAGAGCC  
 GTGGGCTACAAAACACGGGCCCTTTTCAGTAGCGGTGCTGTACTGTACAAAGCGTGTCTATCCTATTT  
 CCACTCATCTATTCAGAAATGAAGTATCTGGTTCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209004 representing NM\_009270  
 Red=Cloning site Green=Tags(s)

MWTF LGIATFTYFYKCKGDVTLANKELL CVLVFLSLGLVLSYRCRHRHGGLLGRHQSGAQFAAFSDILS  
 ALPLIGFFWAKSPESEKKEQLESKKCRKEIGLSETTLGAATSVSTSFVTDPEVIIVGSGVLGSALAAVL  
 SRDGRKVTVIERDLKEPDRIVGELLQPGGYRVLQELGLGDTVEGLNAHHIHGYIVHDYESRSEVQIPYPL  
 SETNQVQSGIAFHHGRFIMSLRKAAMAEPNVKFIGEVVLQLEEDDAVIGVQYKDKETGDTKELHAPLTV  
 VADGLFSKFRKSLISSKVSSSHVFGFLMKDAPQFKPNFAELVLVNPSPVLIYQISSSETRVLVDIRGEL  
 PRNLREYMAEQIYPQLPEHLKESFLEASQNGRLRTMPASFLLPSSVNRKGVILGDAYNLRHPLTGGGMT  
 VALKDIKLWRQLKIDIPLDYDDAAIFQAKKSFFWSRKRTHSFVNVLAQALYELFSATDDSLHQLRKACF  
 LYFKLGGECVTGPVGLLSILSPHPLVLRHFFSVAIYATYFCFKSEPWATKPRALFSSGAVLYKACSI  
 LPLIYSEMKYLVH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9027\\_d04.zip](https://cdn.origene.com/chromatograms/mm9027_d04.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_009270

ORF Size: 1716 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\\_009270.3](#), [NP\\_033296.1](#)

RefSeq Size: 2748 bp

RefSeq ORF: 1719 bp

Locus ID: 20775

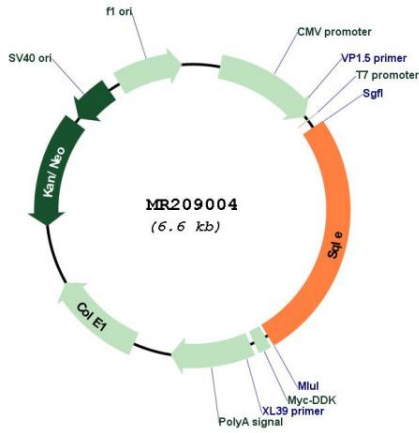
UniProt ID: [P52019](#)

Cytogenetics: 15 D1

MW: 64.2 kDa

Gene Summary: Catalyzes the stereospecific oxidation of squalene to (S)-2,3-epoxysqualene, and is considered to be a rate-limiting enzyme in steroid biosynthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209004