

Product datasheet for **MG209004**

Sqle (NM_009270) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sqle (NM_009270) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sqle
Synonyms:	A1323792
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209004 representing NM_009270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGACTTTTCTTGGCATTGCTACCTCACCTATTTTTATAAGAAATGCGGGGATGTCACCCTGGCCA
 ACAAGGAGCTCCTGCTGTGCGTCTGGTTCCTGTCGCTGGCCCTGGTCTCTCTACCGCTGTGCGCA
 TCGACACGGGGCCTCCTTGGCCGCATCAGAGCGGCGCCAGTTCGCTGCCTTCTCGGATATTCTCTCT
 GCTTTGCCTCTTATTGGCTTCTTCTGGGCCAAGTCACCTGAATCAGAAAAGAAAGAACAGCTGGAGTCCA
 AGAAGTGCAGAAAAGAAATCGGTCTTTCAGAAACGACATTAACAGGAGCAGCTACCTCAGTGTGACCTC
 GTTCGTGACGGACCCGGAAGTATCATCGTGGGATCTGGTGTGCTTGGATCTGCCTTGGCAGCAGTTCTC
 TCCAGAGATGGAAGAAAGGTGACGGTATCGAGAGAGATTTAAAAGAGCCCGACAGGATAGTTGGGGAGC
 TGCTGCAGCCAGGAGGCTACCGTGTTCAGGAGCTGGCCCTGGAGATACAGTAGAAGGTCTCAATGC
 CCATCATATACATGGCTACATAGTTCATGACTATGAAAGCAGATCTGAAGTTCAAATTCGTACCCACTG
 TCAGAAAACCAACCAAGTGCAGAGTGGAATTGCTTTTACCATGGCCGATTTCATCATGAGTCTCCGAAAG
 CAGCTATGGCAGAGCCCAATGTAAGTTTATAGAAGGTGTTGTGCTTCACTAGAGGAAGATGATGC
 TGTAAATCGGCGTGAATACAAGGACAAGGAGACTGGGGACACCAAGGAGCTCCACGCCCCGCTCACCGTT
 GTTGCGGATGGACTCTTCTCAAGTTCAGGAAGAGCCTCATCTCCAGTAAAGTCTCCGTTTCTTCCACT
 TCGTTGGCTTCTTATGAAGGATGCACCACAGTTTAAACCAATTTTGGCGAGCTGTTCTGGTCAACCC
 CAGTCCAGTTCATCTACCAGATTTCTCCAGTAAACTAGGGTACTTGTGATATTCGGGGAGAATTG
 CCAAGAACCTAAGAGAATACATGGCTGAACAAATTTACCCACAGTTACCTGAGCACCTGAAGGAGTCA
 TTCTGGAGGCCTCTCAGAATGGTCGTCTGCGGACCATGCCGGCCAGCTTCTTCTCCTCCTCAGTGAA
 CAAACGAGGCGTCTTATTCTGGGAGATGCGTATAACCTGAGGCACCCTTACTGGTGGAGGAATGACA
 GTTGCTTTAAAAGATATAAAATTGTGGAGACAACCTGTTAAAAGACATTCTGACCTTTATGATGATGCTG
 CTATTTTCCAGGCCAAAAATCATTCTTTTGGTCAAGAAAAAGGACCCATTCTTTGTTGTGAATGTATT
 GGCTCAGGCCTTGTATGAATTTTTCAGCTACAGATGATTCCTTGCATCAGCTCCGAAAAGCTTGTCTT
 CTGTATTTTAACTTGGTGGAGAGTGTGTGACCGTCTGTTGGGTTGCTTCAATATTGTCTCCTCACC
 CTCTGGTGTGATTCGACACTTCTTTCCGTTGCAATCTACGCCAGTATTTCTGCTTCAAATCAGAGCC
 GTGGGCGACAAAACACGGGCCCTTTTTCAGTAGCGGTGCTGTACTGTACAAGCGTGTCTATCCTATTT
 CCACTCATCTATTCAGAAATGAAGTATCTGGTTCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209004 representing NM_009270
 Red=Cloning site Green=Tags(s)

MWTFGLGIATFTYFYKCKGDVTLANKELLCLVLFSLGLVLSYRCRHRHGGLLGRHQSGAQFAAFSDILS
 ALPLIGFFWAKSPESEKKEQLESKKCRKEIGLSETTLTGAATSVSTSFVTDPEVIIVGSGVLGSALAAVL
 SRDGRKVTVIERDLKEPDRIVGELLQPGGYRVLQELGLGDTVEGLNAHHIHGYIVHDYESRSEVQIPYPL
 SETNQVQSGIAFHHRGFIIMSLRKAAMAEPNVKFIGEVVLQLEEDDAVIGVQYKDKETGDTKELHAPLTV
 VADGLFSKFRKSLISSKVSSSHVGFMLMKDAPQFKPNFAELVLVNPSPVLIYQISSSETRVLVDIRGEL
 PRNLREYMAEQIYPQLPEHLKESFLEASQNGRLRTMPASFLLPSSVNRKGVILGDAYNLRHPLTGGGMT
 VALKDIKLRQLKIDIPDLYDDAAIFQAKKSFFWSRKRTHSFVNVLAQALYELFSATDDSLHQLRKACF
 LYFKLGGECVTPVGLLSILSPHPLVLRHFFSVAIYATYFCFKSEPWATKPRALFSSGAVLYKACSILF
 PLIYSEMKYLVH

TRTRPLE – GFP Tag – V

Restriction Sites:

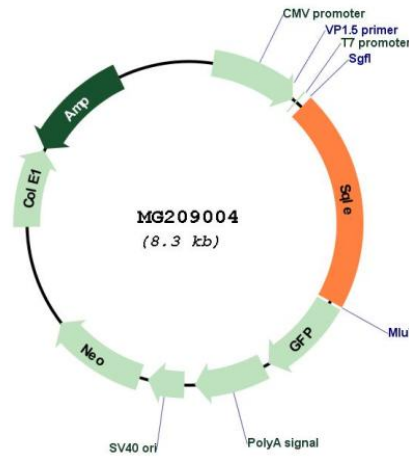
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_009270.2
RefSeq Size:	2748 bp
RefSeq ORF:	1719 bp
Locus ID:	20775
UniProt ID:	P52019
Cytogenetics:	15 D1
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]