

## Product datasheet for **SC324651**

### Squalene Epoxidase (SQLE) (NM\_003129) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Squalene Epoxidase (SQLE) (NM_003129) Human Untagged Clone
Tag:	Tag Free
Symbol:	Squalene Epoxidase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003129.3  
AAACTGGTCTGATCGGACTTCTCGTCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCT  
CCGTGCTCCTCTTGGTACCTCATTTTGGGGAGAACCTTAAACCCACTCGAGCAGATAATC  
TCCGCCTTGACCGGTGCCACCAAGAAGCCTTGAACCATGTGGACTTTTCTGGGCATTG  
CCACTTTCACCTATTTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGG  
TCCTGTTGTGCGTGTGGTGTTCCTCTCGCTGGGCCTGGTGTCTCTACCGCTGTGCGC  
ACCGAAACGGGGTCTCCTCGGGCGCCAGCAGAGCGGCTCCAGTTCGCCCTCTTCTCGG  
ATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTTCTGGGCCAAATCCCCCCTGAATCAG  
AAAATAAGGAGCAGCTCGAGGCCAGGAGCGCAGAAAAGGAACCAATATTTTCAGAAACAA  
GCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCA  
TCGTGGGAGCTGGCGTGTGGCTCTGCTTTGGCAGCTGTGCTTCCAGAGATGGAAGAA  
AGGTGACAGTCATTGAGAGAGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCCTGC  
AGCCGGGTGGTTATCATGTTCTCAAAGACCTTGGTCTTGGAGATACAGTGAAGGCTTG  
ATGCCAGGTTGTAATGGTTACATGATTCATGATCAGGAAAGCAATCAGAGGTTGAGA  
TTCCTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGTGAAGAGCTTTCATCACGGAA  
GATTCATCATGAGTCTCCGAAAAGCAGCTATGGCAGAGCCAATGCAAAGTTTATTGAAG  
GTGTTGTGTTACAGTTATTAGAGGAAGATGATGTTGTGATGGGAGTTCAGTACAAGGATA  
AAGAGACTGGAGATATCAAGGAACCTCATGCTCCACTGACTGTTGTTGCAGATGGGCTTT  
TCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATCTCATTTTGTG  
GCTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTATTTTAGCTA  
ACCCGAGTCCAGTTCTCATCTACCAGATTCATCCAGTAAACTCGAGTACTTGTGACA  
TTAGAGGAGAAAATGCCAAGGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAA  
TACCTGATCACCTGAAAGAACCATTCTTAGAAGCCACTGACAATTCATCTGAGGTCCA  
TGCCAGCAAGCTTCCTTCTCCTTCATCAGTGAAGAAACGAGGTGTTCTTCTTTTGGGAG  
ACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATA  
TAAAACATGAGAGAAAATGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTT  
TCGAGGCCAAAAAATCATTTTACTGGGCAAGAAAAACATCTCATTCTTTGTCGTGAATA  
TCCTTGCTCAGGCTCTTATGAATTATTTTCTGCCACAGATGATCCCTGCATCAACTAA  
GAAAAGCCTGTTTCTTTATTTCAAACCTGGTGGCGAATGTGTTGCGGGTCTGTTGGGC  
TGCTTCTGTATTGTCTCCTAACCTCTAGTTTTAATTGGACACTTCTTTGCTGTTGCAA  
TCTATGCCGTGATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTC  
TCAGTAGTGGTGTGATTTGTACAAAGCGTGTCTGTAATATTTCTCTAATTTACTCAG  
AAATGAAGTATATGGTTCATTAAGCTTAAAGGGGAACCATTTGTGAATGAATATTTGGAA  
CTTACCAAGTCTAAGAGACTTTTGAAGAGGATATATAGCATAGTACCATACCACTT  
ATAAAGTGGAACCTTTGGACCAAGATTTGGATTAATTTGTTTTGAAAGTTTTTTGTATA  
TAAATATGTAATACATGCTTTAATTTGCAATTTAAAATGAAGGGGTTAAATAAGTTAGA  
CATTTAAAAGAAATGATTGTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTT  
TTCTTTTGAATTTAGTATTTGAGATGAGTTGTTGGGACATGCAAAATAAATGAAGAAATGA  
AAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_003129

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_003129.3</a></u> , <u><a href="#">NP_003120.2</a></u>
<b>RefSeq Size:</b>	2989 bp
<b>RefSeq ORF:</b>	1725 bp
<b>Locus ID:</b>	6713
<b>UniProt ID:</b>	<u><a href="#">Q14534</a></u>
<b>Cytogenetics:</b>	8q24.13
<b>Domains:</b>	Monooxygenase
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Steroid biosynthesis
<b>Gene Summary:</b>	Squalene epoxidase catalyzes the first oxygenation step in sterol biosynthesis and is thought to be one of the rate-limiting enzymes in this pathway. [provided by RefSeq, Jul 2008]