

Product datasheet for **SC118174**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118174 sequence for NM_003129 edited (data generated by NextGen Sequencing)

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ATGTGGACTTTTCTGGGCATTGCCACTTTCACCTATTTTTATAAGAAGTTCGGGGACTTC
ATCACTTTGGCCAACAGGGAGGTCTGTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTG
GTGCTCTCCTACCGCTGTGCCACCGAAACGGGGTCTCCTCGGGGCCAGCAGAGCGGC
TCCCAGTTCGCCCTTCTCTCGGATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTTCTGG
GCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGAGGCCAGGAGGCCAGAAAA
GGAAACCAATATTTTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCT
CAGAATGACCCAGAAGTTATCATCGTGGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCT
GTGCTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAGAGACTTAAAAGAGCCTGAC
AGAATAGTTGGAGAATCCTGCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGGTCTT
GGAGATACAGTGGAAAGTCTTGATGCCAGGTTGTAATGTTTACATGATTCATGATCAG
GAAAGCAAATCAGAGGTTAGATTCCCTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGT
GGAAGAGCTTTCCATCACGGAAGATTCATCATGAGTCTCCGAAAGCAGCTATGGCAGAG
CCCAATGCAAAGTTTATTGAAGGTGTTGTGTTACAGTTATTAGAGGAAGATGATGTTGTG
ATGGGAGTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAACTCCATGCTCCACTG
ACTGTTGTTGAGATGGGCTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTT
TCTGTATCATCTCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAAT
CATGCTGAACTTATTTTAGCTAACCCGAGTCCAGTTCTCATCTACCAGATTTTATCCAGT
GAAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAAGGAATTTAAGAGAATACATG
GTTGAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAGCCACT
GACAATTTCTCATCTGAGGTCCATGCCAGCAAGCTTCTTCTCCTTTCATCAGTGAAGAAA
CGAGTGTTCTTCTTTTGGGAGACGCATNNNATATGAGGCATCCACTTACTGGTGGAGGA
ATGACTGTTGCTTTTAAAGATATAAAACTATGGAGAAAAGTCTAAAGGGTATCCCTGAC
CTTTATGATGATGCAGCTATTTTTCGAGGCCAAAAAATCATTTTACTGGGCAAGAAAAACA
TCTCATTCTTTGTCGTGAATATCCTTGCTCAGGCTCTTATGAATTATTTTCTGCCACA
GATGATCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTATTTCAAAGTGGTGGCGAA
TGTGTTGGCGGCTCTGTTGGGCTGCTTCTGTATTGTCTCCTAACCTCTAGTTTAAAT
GGACACTCTTTGCTGTTGCAATCTATGCCGTGATTTTTGCTTAAAGTCAGAACCTTGG
ATTACAAAACCTCGAGCCCTTCTCAGTAGTGGTGTGATTGTACAAAGCGTGTCTGTA
ATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTCATTA
    
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Clone variation with respect to NM_003129.3
 1229 a=>n;1230 t=>n;1231 a=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003129 unedited
CGTCACCATTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGAATATCTG
GATTTCTGGGCGAGGAGGAGCGAGTCTGCTCGGGAGCTGTTCCAGCAGGCGATTTTAA
ATACTGCTTTCTACGCCCTATACAACTTGGCTTACATACTTTTACACTAACTTTATATG
ATTTTTAAAAACTGGTCTGATCGGACTTCTCGTCTGGGACACTGTTTACTGGAGTCTGG
CCGGCTCTCCGTGCTCCTTGGTACCTCATTTTGGGAGAACCTTAAACCCACTCGAGC
AGATAATCTCCGCCTTGACCGGTGCCACCAAGAAGCCTTGAACCATGTGGACTTTTCT
GGGCATTGCCACTTTCACCTATTTTTATAAGAAGTTTCGGGGACTTCATCACTTTGGCCAA
CAGGGAGGTCTGTTGTGCGTGCTGGTGTTCCTCTCGTGGGCTGGTGTCTCTTACC
CTGTGCCACCGAAACGGGGTCTCCTCGGGGCCAGCAGAGCGGCTCCCAGTTCGCCCT
CTTCTCGGATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTTCTGGGCCAAATCCCCC
TGAAATCAGAAAATAAGGAGCAGCTCGAGGCCAGGAGGCCAGAAAGGAACCAATATTTT
AGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAAATGACCAGA
AGTTATCATCGTGGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCCAGAGA
TGAAGAAAGGTGACAGTCATTGAGAGAGACTTAAAGAGCCTGACAGAATANTNGNAGAA
TTTCTGCAGCCGGGTGGTTATCATGGTCTCAAAGACCTTGGTCTTGNAGAACAGTGAAG
TCCTGATGCCAGGTTGTAAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003129 unedited AGAGTCGAGTTTTTTTTTTTTTTTTTTTCATTCTTCATTTATTTGCATGTCCCAACAAC CATCTCAAATACTAAATTCAAAAGAAAACGTAGTTCTCCTCAGCATTAGCACTAATTT ATGGTAACAATCATTTCTTTTAAATGTCTAACTTATTTAACCCCTTCATTTTAAATTGCA AATTAAGCATGTATTTACATATTTATACAAAAAATTCAAAAACAATTAATCCAAA TCTTGGTCCAAGAGTTTCCACTTTATAAGTTCCAAATATTCATTCACAAATGGTTCCCTTTA CCAAAAGTCTCTTAGGACTTGGTAAGTTCCAAATATTCATTCACAAATGGTTCCCTTTA AGCTTAATGAACCATATACTTCATTTCTGAGTAAATTAGAGGAAATATTACAGAACACGC TTTGTAACAATACAGCACCACTACTGAGAAGGGCTCGAGGTTTTGTAATCCAAGGTTCTGA CTTAAAGCANAAATACACGGCATAGATTGCAACAGCAAAGAAGTGTCCAATTAATACTAG AGGGTTAGGAGACATTACAGAAAGCAGCCACAGGACCCCGCACACATTCGCCACCAAGT TTGAATAAAGAAAACAGCTTTTCTAGTTGATGCAGGAATCATCTGTTGCAGAAATAATCA TAAAGAGCCTGACANGGATATCCCGACCAAGGATGAAATGNTTTTCTTGCCAGTAAANTG ATTTTTGGCCTCAAAAATGCCTGCTTATCATAAAGGTCAGGGATACCCTTTAACAGTTTT TCCCATAGTTTATTTCTTTAAAACACCAGCCATCCCCACCAATAAGTGGATGCCTCAAT TTATTGCGTTCCAAAAGAAGAACCCCTTGTTTCTTACTTGATAAGGAGAAAGAACTTC TGGCATGGACCTCCAATGAAAAGCCAGGGCCTTTAAAAGGGCTTCTCAGGACAAGATT GGGGAAATTTTTCAACCTGATTCTTTTATTCTTGGCTTCCCTTAAGCCACAATCTCC GTTACTGATAAATTCGGAAGAACTGCCTGGTACTAAAAACCACCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_003129
Insert Size:	2500 bp
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).
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:	<u>NM_003129.3</u> , <u>NP_003120.2</u>
RefSeq Size:	2989 bp
RefSeq ORF:	1725 bp
Locus ID:	6713
UniProt ID:	<u>Q14534</u>
Cytogenetics:	8q24.13

Domains:	Monooxygenase
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
Gene Summary:	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]