

Product datasheet for **RG202008**

Squalene Epoxidase (SQLE) (NM_003129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Squalene Epoxidase (SQLE) (NM_003129) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Squalene Epoxidase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202008 representing NM_003129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGACTTTTCTGGGCATTGCCACTTTCACCTATTTTTATAAGAAGTTCGGGGACTTCATCACTTTGG
 CCAACAGGGAGGTCTGTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGTCTCTACCGCTGTCG
 CCACCGAAACGGGGTCTCCTCGGGCGCCAGCAGAGCGGCTCCCAGTTCGCCCTTCTCGGATATTCTC
 TCAGGCCCTGCCTTTCATTGGCTTCTTCTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCG
 AGGCCAGGAGGCGCAGAAAAGGAACCAATATTTTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATC
 AACATCTTCTCAGAATGACCCAGAAGTTATCATCGTGGGAGCTGGCGTGTGGCTGTCTTTGGCAGCT
 GTGCTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAGAGACTTAAAAGAGCCTGACAGAATAGTTG
 GAGAATCCTGCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGGTCTTGGAGATACAGTGAAGGTCT
 TGATGCCAGGTTGTAATGGTTACATGATTCATGATCAGGAAAGCAAATCAGAGGTTAGATTCCCTTAC
 CCTCTGTCAGAAAACAATCAAGTCAGAGTGGAAGAGCTTCCATCACGGAAGATTCATCATGAGTCTCC
 GGAAAGCAGCTATGGCAGAGCCCAATGCAAAGTTATTGAAGGTGTTGTGTACAGTTATTAGAGGAAGA
 TGATGTTGTGATGGGAGTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAACCTCATGCTCCACTG
 ACTGTTGTTGCAGATGGGCTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCAT
 CTCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTATTTTAGC
 TAACCCGAGTCCAGTTCATCTACCAGATTTCCATCCAGTGAAACTCGAGTACTTGTGACATTAGAGGA
 GAAATGCCAAGGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAATACCTGATCACCTGAAAG
 AACCATCTTAGAAGCCACTGACAATTCATCTGAGGTCATGCCAGCAAGCTTCCTTCTCCTTCCATC
 AGTGAAGAAACGAGGTGTTCTTCTTTGGGAGACGCATATAATAGAGGCATCCACTTACTGGTGGAGGA
 ATGACTGTTGCTTTTAAAGATATAAAAATGAGGAAAAGTCTAAAGGGTATCCCTGACCTTTATGATG
 ATGCAGCTATTTTCGAGGCCAAAAATCATTTTACTGGGCAAGAAAAACATCTCATTCTTTGTCGTGAA
 TATCCTTGCTCAGGCTCTTATGAATTATTTCTGCCACAGATGATTCCCTGCATCAACTAAGAAAAGCC
 TGTTTTCTTTATTTCAAACCTGGTGGCGAATGTGTGCGGGTCTGTTGGGCTGCTTTCTGTATTGTCTC
 CTAACCTCTAGTTTTAATTGGACTTCTTTGCTGTTGCAATCTATGCCGTGATTTTTGCTTTAAGTC
 AGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTGGTGTGATTGTACAAAGCGTGTCTGTA
 ATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202008 representing NM_003129
 Red=Cloning site Green=Tags(s)

MWTFGLIATFTYFYKKFGDFITLANREVLLCVLVFLSLGLVLSYRCRHRNGLLGRQQSGSQFALFSDIL
 SGLPFIIGFFWAKSPPESENKEQLEARRRRKGTNISETSLIGTAACTSTSSQNDPEVIIVGAGVLGSALAA
 VLSRDGRKVTVIERDLKEPDRIVGEFLQPGGYHVLKDLGLGDTVEGLDAQVNVNGYMIHDQESKSEVQIPY
 PLENNQVQSGRAFHHRFIMSLRKAAMAEPNKAFIEGVVLQLEEDDVVMGVQYKDKETGDIKELHAPL
 TVVADGLFSKFRKSLVSNKVSVSSHVFGFLMKNAPQFKANHAELILANSPVLIYQISSSETRVLVDIRG
 EMPRNLREYMVEKIYPQIPDHLKEPFLEATDNSHLRSMASFLPSSVVKRGVLLLDGAYNMRHPLTGGG
 MTVAFKDIKLWRKLLKGIPLDYDDAAIFEAKSFYWARKTSHSFVNILAQALYELFSATDDSLHQLRKA
 CFLYFKLGGECVAGPVGLLSVLSPNPLVLIGHFFAVAIYAVYFCFKSEPWITKPRALLSSGAVLYKACSV
 IFPLIYSEMKYMH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003129

ORF Size: 1722 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_003129.4](#)

RefSeq Size: 2989 bp

RefSeq ORF: 1725 bp

Locus ID: 6713

UniProt ID: [Q14534](#)

Cytogenetics: 8q24.13

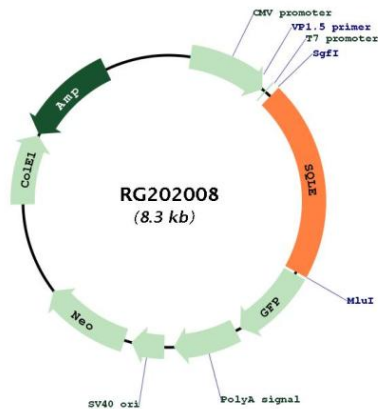
Domains: Monoxygenase

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]

Product images:



Circular map for RG202008