

Product datasheet for **SC319845**

C 4 Methylsterol Oxidase (MSMO1) (NM_006745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C 4 Methylsterol Oxidase (MSMO1) (NM_006745) Human Untagged Clone
Tag:	Tag Free
Symbol:	C 4 Methylsterol Oxidase
Synonyms:	DESP4; ERG25; MCCPD; SC4MOL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006745.3
 GGGGGGAACACCTGGCGAGTCCCTCGGTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTTCA
 GAATTATAAGGCTGTCTGCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTGAGCATCT
 TTAGTTCAGCATCCTTGGCTGTGGAATATGTAGATTCACCTTTACCTGAGAATCCCTGTC
 AAGAACCATTTAAAAATGCTTGGAACTATATGTTGAATAATTATACAAAGTTCAGATTG
 CAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGG
 TTTTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAAGGATAAGCCAGAGA
 CATGGGAAAACCAATGGAAGTGTTCAAAAGTCTTCTCTTTAATCACTTCTGTATCCAGC
 TGCTTTGATTTGTGGAACCTATTATTTTACAGAGTATTTCAATATTCCTTATGATTGGG
 AAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGCTTTGGTTGTGCAGTCATTGAAG
 ATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAGTATATTC
 ATAAAGTTCATCATGAGTTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTT
 TGGAGACTCTAATTCTTGGAACTGGATTTTTCATTGGAATCGTGTCTTTGTGTGATCATG
 TAATTCCTCTTTGGGCATGGGTGACCATTTCGTTTATTAGAACTATTGATGTCCATAGTG
 GTTATGATATTCCTCAACCCTTTAAATCTGATCCCTTCTATGCTGGTCTCGGCATC
 ATGATTTCCACCACATGAACTTCATTGGAACCTATGCTTCAACATTTACATGGTGGGATC
 GAATTTTTGGAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGA
 AAAAGACTGAATAAATATCTCACGTAAACCTTCTGAAAGATAAACGTTTTCTGAATTC
 AGAAACTAGTAGCTAACATTGCTTCTGGAGAGCAGAAATAAGCATGTCTTCTGGCTACTA
 AGTGATAAGAAGAACAATTAACAACCTTTAATTACCTTCTAGTGGGAACTTTTCTACTT
 TACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGTTTTCATG
 AGGAAGTTTTAAAAGCCATGTTCTAAGCTTCCAAGAAGTTTTGGATACTAGAAGTAT
 TAATCTATGGCTTTTCTCCAGTAAAACCATAGGCCTGAAGTTGACATTGGTCTTTAAAT
 CTTTATAGATATAGTGGTCATTTTCAGAAAATCTTCATAGTGGTATTGGCCTTATATTT
 AACTTTTTTTTTACTTTTTTTTTTGGAGACGAAGCCACACTCTGTCTCCTTGGCTGGAGTG
 TGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCAGTTCAAGCAATTCCTTCTGCC
 TCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCAGCCAGCTAATTTTTGTA
 TTTTTGTAGAGATGGGGTTTACGATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAA
 GTGATCTGCCACCTTGGCTCCCAAAGTGTGGGATTACAGGTGAAGCCACTGCACCC
 GGCCTTTTTAACTTTAAACATGTTTTAGAATTCGCCTAAAGATCAAATATCATGGATTG
 AACCTCATCAATTGATAGCAGTGAGTGAAGCTTCCAATCAAGAAAAGCCAGCACC
 AAGAACTTCCATTCTAATCTAGAGCTGACCAGTTTGGAGCTGATTCTCTTTGAAGAGTC
 CTCTTGATTGCAGTGCAGTACTGGCATTCTGAATGGATGTAAGTGGAGTATTTTATGTC
 TAAAGGCTTTTCAAATTAATTTTAAAAATTTGAGGAGCTTTATTTCTATTTTAC
 CCTTCCATTTTGTATATCAAATTTCCATTGTCATTAAAACTGTATCTTGAAACTTTGT
 GAACTGACTTGCTGTATTTGCACCTTGGAGCTTGAATAAATGTGATTTTTGTGTGATT
 ATCTGGTTCCAGTTTTAAACATTAAGTGCACCTTTTATTCTTAAACTGAAAGTACAG
 AAATCATTAATTTATTAAGTTGTACAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006745

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.

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_006745.3, NP_006736.1</u>
RefSeq Size:	2214 bp
RefSeq ORF:	882 bp
Locus ID:	6307
UniProt ID:	<u>Q15800</u>
Cytogenetics:	4q32.3
Domains:	Sterol_desat
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
Gene Summary:	<p>Sterol-C4-methyl oxidase-like protein was isolated based on its similarity to the yeast ERG25 protein. It contains a set of putative metal binding motifs with similarity to that seen in a family of membrane desaturases-hydroxylases. The protein is localized to the endoplasmic reticulum membrane and is believed to function in cholesterol biosynthesis. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>