

Product datasheet for **SC319690**

HAO2 (NM_016527) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAO2 (NM_016527) Human Untagged Clone
Tag:	Tag Free
Symbol:	HAO2
Synonyms:	GIG16; HAOX2
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_016527.2
 GGTGTGTTTCCTAACACCTCCGGCAGTGAGCCAGGCTTTGAGTGGCTGCGTCTAAACACT
 TCTTTCCCTGAGGACTGGAAGACATTAGAATAAGCTCCAGACAATTCAAACATTGAGATT
 CCTGGGAACCTACCAGATAGTAGCATCAGTTCACCAAGAAATGAAGCTGGTGGCCAGTGA
 AAATCCAGGGCCTAGAAAGCTGGGAATGCCATGACGTGGGCACATTGAAAGACAAGAGGC
 AGGCATGATCAGCCTTGAACCTTAGGAAGATCCCAGGAAGCTGATGGAAGACAAGATGTG
 GAGTGAATGTGAAGTCCAGAAATGTCTTGGTGTGTCTGACAGACTTTCAGGCCATGC
 GCGAGAGCAGCTGTCTAAGTCAACTCGGATTTTATTGAAGGTGGAGCAGATGACAGCAT
 CACGCGGATGACAACATTGCAGCATTTAAAAGAATTCGCCTCCGTCGCGGTACCTGAG
 AGATGTGTCTGAGGTGGACACCAGAACCACAATCCAAGGGGAGGAGATCAGTGCCCTAT
 TTGTATCGCACCCACAGGGTTCCTGCTGCTGGCCTGATGGGGAAATGAGCACAGC
 AAGAGCTGCCAAGCGGCTGGTATCTGCTACATCACCAGCACATTTGCCAGCTGTAGCCT
 TGAAGACATTGTCATTGCAGCTCCCGAAGGCTCCGATGGTTCCAACCTATGTGCATCC
 AGACCTGCAGCTGAACAAACAGTTGATCCAGAGGGTAGAATCCCTAGGTTTCAAAGCTTT
 GGTAAACTTTGGATACACCTGTATGTGGCAACAGGCGACATGACATTCGAAACCAGTT
 GAGGAGGAACTTAACACTAACAGATCTTCAATCACCTAAAAAGGGAAATGCAATACCTTA
 TTTCCAGATGACTCCTATCAGCACTTCTCTGCTGGAATGATCTCTCCTGGTTTCAGAG
 CATAACTCGATTGCCATCATCCTGAAAGGGATTTTGACAAAAGAGGATGCAGAGTTAGC
 TGTGAAGCACAATGTCCAGGGTATCATTGTTTCCAACCATGGTGGGAGGCAGCTTGATGA
 GGTCTTGGCTTCAATTGATGCTTTGACAGAAGTGGTGGCTGCTGTAAGGGGAAAATTGA
 AGTCTACCTGGATGGCGGGTCCGAACTGGCAATGATGTGCTGAAGGCTCTGGCCCTTG
 AGCTAAGTGCATTTTCTGGGAGACCAATCCTATGGGGCCTTGCTGCAAGGGTGAACA
 TGGTGTTAAGGAAGTTTGAACATTTTAAACAAATGAGTTCACACTTCCATGGCCCTTAC
 AGGCTGCCGGTCCGTCGCTGAGATCAATCGAAACTTGGTCCAGTTTCCAGGCTGTAAGA
 AAAAAGGGCCAATAACCCAGACTGCTGAGGTTGCCACAGGAGGATCACAACCTCACAGCA
 CAGTGTGTGATGTCTTCTGGACCCATTCTGTCCGGAGGCTCATGGCCATATTT
 CCCACATTTCTAATACCACCACCCTGTGCTTCAGGCCCTCCAAACCCCTGTGTTCCCA
 AATGTTCCATGCCCTTCTTTGTATCACTGACTATTATATGTTGCTCTTGCCTAAATCT
 TCCTCTGAAGTAAAAGATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016527

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_016527.2, NP_057611.1</u>
RefSeq Size:	1476 bp
RefSeq ORF:	1056 bp
Locus ID:	51179
UniProt ID:	<u>Q9NYQ3</u>
Cytogenetics:	1p12
Domains:	FMN_dh
Protein Pathways:	Glyoxylate and dicarboxylate metabolism, Metabolic pathways
Gene Summary:	<p>This gene is one of three related genes that have 2-hydroxyacid oxidase activity. The encoded protein localizes to the peroxisome has the highest activity toward the substrate 2-hydroxypalmitate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. The encoded isoform (1) has a shorter N-terminus than isoform 1.</p>