

Product datasheet for SC114070

HAO1 (NM_017545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAO1 (NM_017545) Human Untagged Clone
Tag:	Tag Free
Symbol:	HAO1
Synonyms:	GOX; GOX1; HAOX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_017545 edited
GGCGCCGCGAATTCGGCACCAGATAACCTGTGAAAATGCTCCCCGGCTAATTTGTATC
AATGATTATGAACAACATGCTAAATCAGTACTTCCAAAGTCTATATGACTATTACAGG
TCTGGGGCAAATGATGAAGAACTTTGGCTGATAATATTGCAGCATTTTCCAGATGGAAG
CTGTATCCAAGGATGCTCCGGAATGTTGCTGAAACAGATCTGTGACTTCTGTTTTAGGA
CAGAGGGT CAGCATGCCAATATGTGTGGGGCTACGGCCATGCAGCGCATGGCTCATGTG
GACGGCGAGCTTGCCACTGTGAGAGCCTGT CAGTCCCTGGGAACGGGCATGATGTTGAGT
TCCTGGGCCACCTCCTCAATTGAAGAAGTGGCGGAAGCTGGTCTGAGGCACTTCGTTGG
CTGCAACTGTATCTACAAGGACCGAGAAGTACCAAGAAGCTAGTGCGGCAGGCAGAG
AAGATGGGCTACAAGCCATATTTGTGACAGTGGACACACCTTACCTGGGCAACCGTCTG
GATGATGTGCGTAACAGATTCAAACCTGCCGCCACAACCTCAGGATGAAAAATTTTGAACC
AGTACTTTATCATTTTCTCCTGAGGAAAATTTTGGAGACGACAGTGGACTTGCTGCATAT
GTGGCTAAAGCAATAGACCCATCTATCAGCTGGGAAGATATCAAATGGCTGAGAAGACTG
ACATCATTGCCAATTGTTGCAAAGGGCATTGAGAGGTGATGATGCCAGGGAGGCTGTT
AAACATGGCTTGAATGGGATCTTGGTGTGCAATCATGGGGCTCGACAACCTCGATGGGGTG
CCAGCCACTATTGATGTTCTGCCAGAAATGTGGAGGCTGTGGAAGGGAAGGTGGAAGTC
TTCCTGGACGGGGGTGTGCGGAAAGGCACTGATGTTCTGAAAGCTCTGGCTCTTGGCGCC
AAGGCTGTGTTTGTGGGGAGACCAATCGTTTGGGGCTTAGCTTTCCAGGGGGAGAAAGGT
GTTCAAGATGTCCTCGAGATACTAAAGGAAGAATTCGGTTGGCCATGGCTCTGAGTGGG
TGCCAGAATGTGAAAGTCATCGACAAGACATTGGTGAGGAAAAATCCTTTGGCCGTTTCC
AAGATCTGACAGTGCACAATATTTTCCATCTGTATTATTTTTTTTTCAGCATGTATTACT
TGACAAAGAGACTGTGCAGAGGGTGACCACAGTCTGTAATCCCACTTCAATACAAA
GGGTGTCGTTCTTTTCCAACAAAATAGCAATCCCTTTTATTTCATTGCTTTTGACTTTTC
AATGGGTGTCCTAGAACCTTTTAGAAAGAAATGGACTTTCATCCTGGAAATATATTAAC
TGTTAAAAAGAAAACATTGAAAATGTGTTTAGACAACGTCATCCCTGGCAGGCTAAAGT
GCTGTATCCTTT



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017545 unedited GCATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGATAACCTGTGA AAATGCTCCCCCGGCTAATTTGTATCAATGATTATGAACAACATGCTAAATCAGTACTTC CAAAGTCTATATGACTATTACAGGCTGGGGCAAATGATGAAGAACTTTGGCTGATA ATATTGCAGCATTTTCCAGATGGAAGCTGTATCCAAGGATGCTCCGGAATGTTGCTGAAA CAGATCTGTCGACTTCTGTTTTAGGACAGAGGGTCAGCATGCCAATATGTGTGGGGGCTA CGGCCATGCAGCGCATGGCTCATGTGGACGGCGAGCTTGCCACTGTGAGAGCCTGTCAGT CCCTGGGAACGGGCATGATGTTGAGTTCCTGGGCCACCTCCTCAATTGAAGAAAGTGGCGG AAGCTGGTCTGAGGCACTTCGTTGGCTGCAACTGTATATCTACAAGGACCGAGAAGTCA CCAAGAAGCTAGTGCGGCAGGCAGAGAAGATGGGCTACAAGGCCATATTTGTGACAGTGG ACACACCTTACCTGGGCAACCGTCTGGATGATGTGCGTAACAGATTCAAAGTCCGCCAC AACTCANGATGAAAAATTTGAAACCACTACTTTATCATTTTCTCCTGAGGAAAAATNTG GAGACGACAGTGGACTTGTGCATATGTGGCTAAAGCAATAGACCCATCTATCAGCTGGG AAGATATCAAATGGCTGAGAAGACTGACATCATTGCCAATGTTGCAAAGGCATTTTGA GAGGTGATGATGCCAGNAGGCTGTTAAACATGGCTTTGATGGGATCTTGNTGTGCAATC ATGGNGCTCGACNACTCGATGGGGTGCCAGCCACTATTGATGTTCTGCCAGAAATTTGGG NAGCTGTGGAAGGAAAGTNAAGTCTTCTGNACNGGGTNTGCCAAAGCACTGATGTCT GAAGCTTTGCTCTTGCCCAAGCTGGGTTGGGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_017545
Insert Size:	2000 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:	NM_017545.2 , NP_060015.1
RefSeq Size:	1746 bp
RefSeq ORF:	1113 bp
Locus ID:	54363
UniProt ID:	Q9UJM8
Cytogenetics:	20p12.3
Domains:	FMN_dh

Protein Pathways:

Glyoxylate and dicarboxylate metabolism, Metabolic pathways

Gene Summary:

This gene is one of three related genes that have 2-hydroxyacid oxidase activity yet differ in encoded protein amino acid sequence, tissue expression and substrate preference. Subcellular location of the encoded protein is the peroxisome. Specifically, this gene is expressed primarily in liver and pancreas and the encoded protein is most active on glycolate, a two-carbon substrate. The protein is also active on 2-hydroxy fatty acids. The transcript detected at high levels in pancreas may represent an alternatively spliced form or the use of a multiple near-consensus upstream polyadenylation site. [provided by RefSeq, Jul 2008]