

Product datasheet for **RG216834**

HAO1 (NM_017545) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAO1 (NM_017545) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HAO1
Synonyms:	GOX; GOX1; HAOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216834 representing NM_017545 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCCCGGCTAATTTGTATCAATGATTATGAACAACATGCTAAATCAGTACTTCCAAAGTCTATAT
ATGACTATTACAGGTCTGGGGCAAATGATGAAGAACTTTGGCTGATAATATTGCAGCATTTTCCAGATG
GAAGCTGTATCCAAGGATGCTCCGGAATGTTGCTGAAACAGATCTGTCGACTTCTGTTTTAGGACAGAGG
GTCAGCATGCCAATATGTGTGGGGCTACGGCCATGCAGCGCATGGCTCATGTGGACGGCGAGCTTGCCA
CTGTGAGAGCCTGTCAGTCCCTGGGAACGGGCATGATGTTGAGTTCCTGGCCACCTCCTCAATTGAAGA
AGTGGCGGAAGCTGGTCCTGAGGCACTTCGTTGGCTGCAACTGTATATCTACAAGGACCGAGAAGTCAAC
AAGAAGCTAGTGCAGGAGGAGAGAAGATGGGCTACAAGGCCATATTTGTGACAGTGGACACACCTTACC
TGGGCAACCGTCTGGATGATGTGCGTAACAGATTCAAACCTGCCGCCAACAACCTCAGGATGAAAAATTTGA
AACCAGTACTTTATCATTCTCCTGAGGAAAAATTTGGAGACGACAGTGGACTTGTGCATATGTGGCT
AAAGCAATAGACCCATCTATCAGCTGGGAAGATATCAAATGGCTGAGAAGACTGACATCATTGCCAATTG
TTGCAAAGGGCATTGAGAGGTGATGATGCCAGGGAGGCTGTTAAACATGGCTGAATGGGATCTTGGT
GTCGAATCATGGGGCTCGACAACCTCGATGGGGTGCCAGCCACTATTGATGTTCTGCCAGAAATTTGGAG
GCTGTGGAAGGGAAGGTGGAAGTCTTCCCTGGACGGGGTGTGCGGAAAGGCACTGATGTTCTGAAAGCTC
TGGCTCTTGGCGCAAGGCTGTGTTTGTGGGAGACCAATCGTTTGGGGCTTAGCTTTCCAGGGGGAGAA
AGGTGTTCAAGATGTCCTCGAGATACTAAAGGAAGAATTCGGTTGGCCATGGCTCTGAGTGGGTGCCAG
AATGTGAAAGTATCGACAAGACATTGGTGAAGAAAAATCCTTTGGCCGTTTCCAAGATC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216834 representing NM_017545
 Red=Cloning site Green=Tags(s)

MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKL YPRMLRNAETDLSTSVLGQR
 VSMPICVGATAMQRMADVDELATVRACQSLGTGMMLSSWATSSIEEVAEAGPEALRWLQLYIKDREVT
 KKLVRQAEMGYKAI FVTVDTPYLGNRLDDVRNRFKLPQLRMKNFETSTLSFSPEENFGDSSGLAAYVA
 KAIDPSISWEDIKWLRRRLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGV PATIDVLP EIVE
 AVEGKVEVFLDGGVVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQ
 NVKVIDKTLVRKNPLAVSKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017545

ORF Size: 1110 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_017545.3](#)

RefSeq Size: 1746 bp

RefSeq ORF: 1113 bp

Locus ID: 54363

UniProt ID: [Q9UJM8](#)

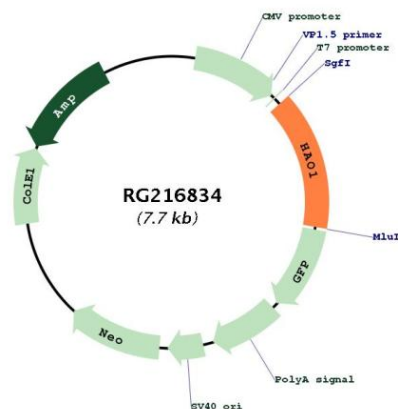
Cytogenetics: 20p12.3

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]

Product images:



Circular map for RG216834