

Product datasheet for MR203899

Haao (NM_025325) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Haao (NM_025325) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Haao
Synonyms:	3-HAO; 3-HAOxase; 3HAO; 0610007K21Rik; 0610012J07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203899 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAACGCCGTGTGAGAGTGAAGTCTTGGGTAGAAGAGAATCGGGCCTCCTTTCAGCCTCCGGTTTGCA
ACAAGCTTATGCACCAGGAGCAGCTCAAATCATGTTTCGTTGGAGGCCCAATACCAGGAAGGATTATCA
CATTGAAGAGGGTGAGGAGGTGTTTTACCAGCTGGAGGGAGACATGATACTACGAGTCTGGAGCAGGGG
CAACACCGGGACGTGCCTATACGGCAGGGAGAGATATTCCTCCTGCCTGCCAGGGTGCCCACTCCCGC
AGAGGTTTGCCAAACCATGGGGCTGGTATTGAGAGAAGCGGCTGGAGAGCGAGCTGGATGGGCTGAG
GTATTACGTGGGGACACTGAGGATGTCTCTTCGAGAAATGGTTCCTACTGTAAGGACCTTGGCAGCGAG
TTAGCACCCATCATCCAAGATTCTTCCACTCTGAGCAATACCGAACAGGAAAACCAACCTGACCAGC
TGCTCAAGGAGCTGCCATTCGCTGAATACACGGTCCATCATGAAGCCCATGTCATTGAAGGCCTGGCT
GGATGGCCACTCCAGGGAGCTTCAGGCAGGCACATCCCTAAGCCTGTTTGGGGACAGCTATGAGACCCAG
GTCATTGCCACGGACAAGGTAGCAGCAAAGGCCAAGGCAGGATGTGGATGTGTGGCTGTGGCAACAGG
AGGGCTCCTTAAGGTGACAATGGGAGGGCAGTGTATAGCCCTGGCCCCAGATGACAGCCTGCTGGTGCC
TGCTGGAACCTCGTATGTGTGGGAGCGAGCACAAAGGCTCTGTGGCCTTGTCTGTGACACAAGACCCCTGCC
CGTAAGAAGCCATGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203899 protein sequence
 Red=Cloning site Green=Tags(s)

MERRVRVKSWEENRASFPVPCNKLHQEQLKIMFVGGPNTRKDYHIEEGEEVFYQLEGDMILRVLEQG
 QHRDVP IRQGEIFLLPARVPHSPQRFANTMGLVIERRRLESELDGLRYYVGDTEVLFEKWFHCKDLGTQ
 LAPIIQEFFFHSEYRTGKPNPDQLLKELPFPLNTRSIMKPMCLKAWLDGHSRELQAGTSLSLFGDSYETQ
 VIAHGQSSKGRQDQVDVWLWQQEGSSKVTMGGQCIAPDSSLVLPAGTSYVWERAQGSVALSVTQDPA
 RKKPWW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025325

ORF Size: 861 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_025325.2](#), [NP_079601.1](#)

RefSeq Size: 1252 bp

RefSeq ORF: 861 bp

Locus ID: 107766

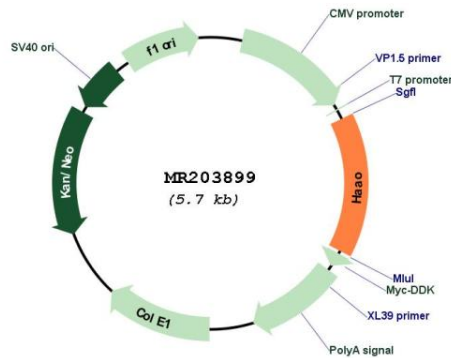
UniProt ID: [Q78JT3](#)

Cytogenetics: 17 E4

MW: 32.8 kDa

Gene Summary: Catalyzes the oxidative ring opening of 3-hydroxyanthranilate to 2-amino-3-carboxymuconate semialdehyde, which spontaneously cyclizes to quinolinate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203899