

Product datasheet for MR205377

Hao2 (NM_019545) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hao2 (NM_019545) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hao2
Synonyms:	A1325478; Hao-2; Hao3; Haox3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205377 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTTGCTGTGTTTGGCAGACTTTAAGGCACAAGCACAAAAGCAGCTGTCTAAGACCTCCTGGGATT
TTATTGAAGGAGAAGCTGATGATGGCATAACCTACAATGACAACCTGGCAGCATTTAGAAGAATCCGCCT
CCGCCCCAGATACCTGAGAGATGTGTCAAAGATAGACACCAGGACCACAATCCAAGGGCAGGAGATCAAT
GCCCCCATTTGCATCTCACCCACAGCCTTTCATTCAATTGCCTGGGCAGATGGAGAAAAGAGCACAGCTA
AAGCTGCTCAGAAGGCCAACATCTGCTATGTCATCAGCAGTTATGCCAGCTATACTGTGGAAGACATTGT
TGCTGCTGCCCTGGAGGCTCCATTGGTTCCAACCTTTATGTGCAGCCAGACTGGGACATCAACAAGCAG
ATGGTTACAGAGGATAGAAGCCTTGGGTTTCAAAGCTTTGGTGGTCACTGTAGATGCGCCTGTACTTGGCA
ATAGGCGAGGGAACAAGAGAAGCCTGCTGGATTGGAGGCAAACATAAAGCTGAAGGATCTCCGATCCCC
TGGAGAGAGCAAGTCTGGACTTCTACTCCCCTGTCTATGCCAAGTACATCTTCTGCTGGAATGATCTC
CCCTTGCTTCAGAGTATGACTCGGTTGCCATTATCCTCAAAGGGATTTTGACAAAAGAGGATGCAGAA
TAGCAGTGAAGCACAACATCCGAGGCATCATTGTTCCAACCATGGCGGGAGGCAGCTTGATGAGGTTCC
TGCATCTATTGATGCTCTGAGAGAAGTGGTGGCTGCCGTCAATGGGAAAATTGAAGTGTACATGGATGGT
GGGTTTGAACCGGCAATGATGTGTTGAAGGCACTAGCCCTGGAGCTAGGTGCAATTTTCTTGGGAGAC
CAATCATTTGGGCTTGCCTGCAAGGGTGAAGATGGTGTAAAGGAAGTTTATAGATATTCTAAAAGAAGA
ACTCCACACTTGTATGGCCCTTTCAGGCTGCCGTCAGTTGCTGAGATCAGTCCAGACCTGATTCAGTTC
TCCAGATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205377 protein sequence
 Red=Cloning site Green=Tags(s)

MSLLCLADFKAQAQKQLSKTSWDFIEGEADDGITYNDNLAAFRRIRLRPRYL RDVSKIDTRTTIQGQEQIN
 APICISPTAFHSAWADGEKSTAKAAQKANCYVISSYASYTVEDIVAAAPGGLHWFQLYVQPDWDINKQ
 MVQRIEALGFKALVVTVDAPVLGNRRGNKRSLDLEANIKLKDLRSPGESKSGLPTLSPMPSTSSCWNDL
 PLLQSMTRLPIILKGILTKEDAELAVKHNIRGIIVSNHGGRLDEV PASIDALREVVAAVNGKIEVYMDG
 GVRTGNDVYLKALALGARCIFLGRPIIWGLACKGEDGVKEVLDILKEELHTCMALSGCRSVAEISPDLIQF
 SRL

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_019545

ORF Size: 1062 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_019545.3](#)

RefSeq Size: 2042 bp

RefSeq ORF: 1062 bp

Locus ID: 56185

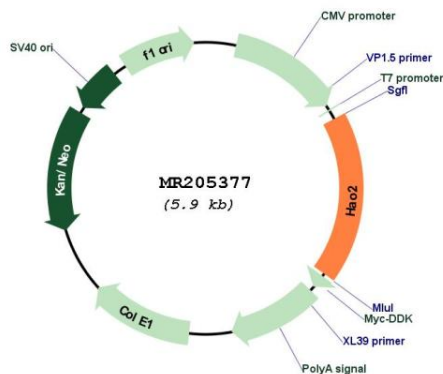
UniProt ID: [Q9NYQ2](#)

Cytogenetics: 3 42.9 cM

MW: 38.7 kDa

Gene Summary: Has 2-hydroxyacid oxidase activity. Most active on medium-chain substrates.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205377