

Product datasheet for **MG205377**

Hao2 (NM_019545) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hao2 (NM_019545) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hao2
Synonyms:	A1325478; Hao-2; Hao3; Haox3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205377 representing NM_019545 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTTGCTGTGTTTGGCAGACTTTAAGGCACAAGCACAAAAGCAGCTGTCTAAGACCTCCTGGGATT
TTATTGAAGGAGAAGCTGATGATGGCATAACCTACAATGACAACCTGGCAGCATTTAGAAGAATCCGCCT
CCGCCCCAGATACCTGAGAGATGTGTCAAAGATAGACACCAGGACCACAATCCAAGGGCAGGAGATCAAT
GCCCCCATTTGCATCTCACCCACAGCCTTTCATTCAATTGCCTGGCAGATGGAGAAAAGAGCACAGCTA
AAGCTGCTCAGAAGGCCAACATCTGCTATGTCATCAGCAGTTATGCCAGCTATACTGTGGAAGACATTGT
TGCTGCTGCCCTGGAGGCTCCATTGGTTCCAACCTTTATGTGCAGCCAGACTGGGACATCAACAAGCAG
ATGGTTACAGAGGATAGAAGCCTTGGGTTTCAAAGCTTTGGTGGTCACTGTAGATGCGCCTGTACTTGGCA
ATAGGCGAGGGAACAAGAGAAGCCTGCTGGATTTGGAGGCAAACATAAAGCTGAAGGATCTCCGATCCCC
TGGAGAGAGCAAGTCTGGACTTCTACTCCCCTGTCTATGCCAAGTACATCTTCTGCTGGAATGATCTC
CCCTTGCTTCAGAGTATGACTCGTTGCCATTATCCTCAAAGGGATTTTGACAAAAGAGGATGCAGAA
TAGCAGTGAAGCACAAATCCGAGGCATCATTGTTCCAACCATGGCGGGAGGCAGCTTGATGAGGTTCC
TGCATCTATTGATGCTCTGAGAGAAGTGGTGGCTGCCGTCATGGGAAAATTGAAGTGTACATGGATGGT
GGGTTTGAACCGGCAATGATGTGTTGAAGGCACTAGCCCTTGGAGCTAGGTGCAATTTTCTTGGGAGAC
CAATCATTTGGGCCTTGCTGCAAGGGTGAAGATGGTGTAAAGGAAGTTTATAGATATTCTAAAAGAAGA
ACTCCACACTTGTATGGCCCTTTCAGGCTGCCGGTCAGTTGCTGAGATCAGTCCAGACCTGATTCAGTTC
TCCAGATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205377 representing NM_019545
 Red=Cloning site Green=Tags(s)

MSLLCLADFKAQAQKQLSKTSWDFIEGEADDGITYNDNLAAFRRIRLRPRYL RDVSKIDTRTTIQGQEIN
 APICISPTAFHSAWADGEKSTAKAAQKANICYVISSYASYTVEDIVAAAPGGLHWFQL YVQPDWDINKQ
 MVQRIEALGFKALVVTVDAPVLGNRRGNKRSLDLLEANIKLKDRLSPGESKSGLP TPLSMPSTSSCWNDL
 PLLQSMTRLPIILKGI LTKEDAELAVKHNI RGIIVSNHGG RQLDEVPASIDALREVVA AVNGKIEVYMDG
 GVRTGNDVYLKALALGARCIFLGRPIIWGLACKGEDGVKEVLDILKEELHTCMALSGCRSVAEISPDLIQF
 SRL

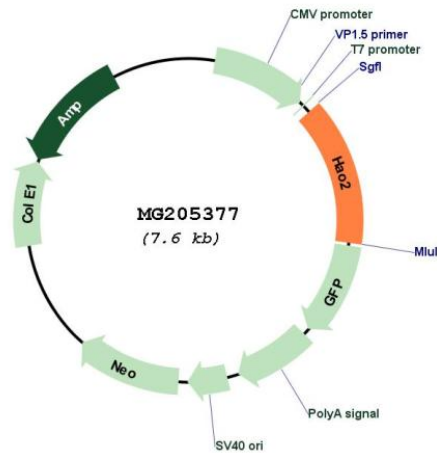
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019545

ORF Size:	1059 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:	<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_019545.3
RefSeq Size:	2029 bp
RefSeq ORF:	1062 bp
Locus ID:	56185
UniProt ID:	Q9NYQ2
Cytogenetics:	3 42.9 cM
Gene Summary:	Has 2-hydroxyacid oxidase activity. Most active on medium-chain substrates. [UniProtKB/Swiss-Prot Function]