

Product datasheet for RR202654

Hao2 (NM_032082) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hao2 (NM_032082) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hao2
Synonyms:	Hao3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202654 representing NM_032082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTTTGGTGTGTTTGGCAGACTTTAAGGCACATGCGCAAAGCAGCTGTCTAAGACCTCCTGGGACT
TTATTGAAGGAGAAGCTGACGACGGCATCACCTACAGTGAGAACATAGCAGCATTTAAAAGAATCCGCCT
CCGCCCCGATACCTGAGAGATATGTCAAAGGTGGACACCAGGACCACAATCCAAGGGCAGGAGATCAGT
GCTCCCATCTGCATCTCACCCACAGCCTTTCACCTCCATTGCCTGGCCGGATGGAGAAAAGAGCACAGCTA
GAGCTGCTCAGGAGGCCAACATCTGCTATGTCATCAGCAGTTATGCCAGCTATTCCTGGAAGATATTGT
TGCTGCTGCCCCGAAGGCTTTCGTTGGTTCCAACCTACATGAAGTCAGACTGGGACTTCAACAAGCAG
ATGGTTCAGAGGGCAGAAGCCTTGGGTTTCAAAGCTTGGTGATCACTATAGATACGCCTGTACTTGGCA
ATAGGCGACGGGACAAGAGAAACCAGCTGAATTTGGAGGCAAACATATTGTTGAAGGATCTCCGAGCCCT
CAAAGAGGAAAAGCCACACAGTCTGTGCCCGTGTCTTTCCGAAAGCATCTTTCTGCTGGAATGATCTT
TCCTTGCTTCAGAGTATAACTCGGTTGCCATTATCCTCAAAGGGATTTGACGAAAGAGGATGCAGAGT
TAGCAATGAAGCACAACGTTCAAGGCATCGTTGTTTCCAACCATGGTGGGAGGCAGCTTGATGAGGTTTC
TGCTTCAATTGATGCTCTGAGAGAAGTGGTGGCTGCTGTCAAAGGAAAATTGAAGTGTACATGGATGGT
GGGTTTGAAGTGGCACTGATGTGTTGAAGGCACTGGCCCTTGGAGCTAGGTGCATTTTTCTGGGAGAC
CAATCCTTTGGGGCCTTGCCTGCAAGGGTGAAGATGGTGTAAAGGAAGTTTTAGATATTCTAACAGCAGA
ACTCCATAGATGTATGACCCTTTCAGGCTGCCAGTCAGTTGCTGAGATTAGTCCAGACCTGATTCAGTTC
TCCAGATTA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202654 representing NM_032082
Red=Cloning site Green=Tags(s)

MPLVCLADFKAHAQKQLSKTSWDFIEGEADDGITYSENIAAFKRIRLRPRYL RDMSKVDTRTTIQGQEIS
 APICISPTAFHSAIWPDGEKSTARAAQEANICYVISSYASYSLIEDIVAAAPGFRWFQLYMKSDWDFNKQ
 MVQRAEALGFKALVITIDTPVLGNRRRDKRNQLNLEANILLKDLRALKEEKPTQSPVSPFKASFVWDL
 SLLQSIITRLPIILKGILTKEDAELAMKHNVQGI VVSNHGGRLDEVSASIDALREVVAAVKGI EYVMDG
 GVRTGTDVLKALALGARCIFLGRPILWGLACKGEDGVKEVLDILT AELHRCMTLSGCQSVAEISPDLIQF
 SRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

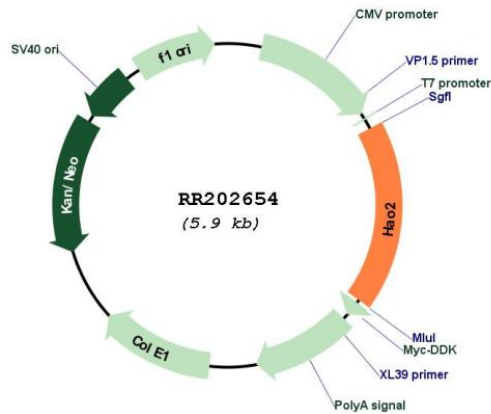
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_032082

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_032082.2 , NP_114471.1
RefSeq Size:	1647 bp
RefSeq ORF:	1062 bp
Locus ID:	84029
UniProt ID:	Q07523
Cytogenetics:	2q34
MW:	39.2 kDa
Gene Summary:	FMN-dependent alpha-hydroxy-oxidase enzyme that catalyzes the oxidation of L-alpha-hydroxy acids [RGD, Feb 2006]