

Product datasheet for MR225292

Hif1an (NM_176958) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hif1an (NM_176958) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hif1an
Synonyms:	2310046M24Rik; A830014H24Rik; FIH; FIH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225292 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGACGGCAGCCGAGGTTGCGGCCTCTGGCTCTGGAGAGGCCCGGAAGAAGCCGAAGCTCCGG
GTCCCGCTGGGATGAGTCCCAGCTACGAAGTTACAGCTTCCGACCAGGCCATCCCACGTCTGAGCCA
GAGTGACCCTCGGGCGGAAGAGCTCATGAAAATGAGGAGCCAGTGGTGTGACCGACACAAACCTTGTG
TATCCTGCACTGAAGTGGACCTCGAATACCTGCAAGAGAATATTGGCAACGGAGATTTCTGTGTACA
GTGCCAGCACCCATAAGTTCTTATACTATGATGAGAAGAAGATGGCAATTTCCAGAACTTAAGCCAAG
GTCCAACAGGGAGGAAATTAATTTTCATGAGTTCGTTGAGAACTACAAGCTATACAGCAGCGCGGGGA
GAAGAGCGGTTGTATCTGCAGCAGACACTCAATGACACCGTGGGAGGAAGATTGTCATGGACTTCTTGG
GTTTTAACTGGAAGTCAATAAACAGCAGGGGAAACGCGGCTGGGGGAGCTGACCTCTAACCTGTT
GCTCATTGGCATGGAAGGAAATGTGACACCTGCTCACTATGATGAGCAGCAGAAGCTTTTTGCCAAATA
AAAGGCCATAAGAGATGCATCTTATTTCTCCGGATCAGTTCGAGTGCCTCTATCCATACCTGTCCATC
ACCCCTGTGACAGGCAGAGCCAGGTGGACTTTGACAATCCTGACTACGAGAGGTTCCCAATTTCCGAAA
TGTGGTTGGTTATGAGACAGTGGTTGGCCCTGGGGATGTTCTTTACATCCAATGTAAGTGGCACCAT
ATAGAGTCATTACTAAATGGGGGAATTACCATCACTGTGAATCTGGTATAAGGGGGCTCCACCCCTA
AGAGAATCGAATATCCTCTCAAAGCTCATCAGAAAGTAGCCATCATGAGAAACATTGAGAAGATGCTTGG
AGAGGCCCTTGGGAACCCACAAGAGGTGGGCCTTTGTTGAACCCATGATTAAGGCCGTTACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR225292 protein sequence
Red=Cloning site Green=Tags(s)

MAATAAEVAASGSGEAREEEAEPGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEPPVLTDTNLV
 YPALKWDLEYLQENIGNGDFSVYSASTHKFLYYDEKKMGNFNQFKPRSNREEIKFHEFVEKLQAIQQRGG
 EERLYLQQTLDNTVGRKIVMDFLGFNWNWINKQQGKRGWGQLTSNLLLIGMEGNVTPAHYDEQQNFFAQI
 KGHKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNDPYERFPNFRNVVGYETVVGPGDVLVYIPMYWWHH
 IESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIKMLGEALGNPQEVGPELLNTMIKGRYN

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_176958

ORF Size: 1047 bp

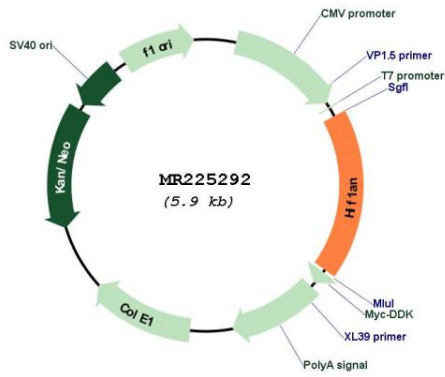
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_176958.3, NP_795932.2</u>
RefSeq Size:	6190 bp
RefSeq ORF:	1050 bp
Locus ID:	319594
UniProt ID:	<u>Q8BLR9</u>
Cytogenetics:	19 C3
MW:	40.2 kDa
Gene Summary:	Hydroxylates HIF-1 alpha at 'Asn-799' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation (By similarity). Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225292