

## Product datasheet for MC214417

### Hif1an (NM\_176958) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hif1an (NM_176958) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hif1an
Synonyms:	2310046M24Rik; A830014H24Rik; FIH; FIH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214417 representing NM_176958 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGCGGCGACGGCAGCCGAGGTTGCGGCCTCTGGCTCTGGAGAGGCCCGGAAGAAGCCGAAGCTCCGG  
 GTCCCGCCTGGGATGAGTCCCAGCTACGAAGTTACAGCTTTCGACCAGGCCATCCCACGTCTGAGCCA  
 GAGTGACCCTCGGGCGGAAGAGCTCATGAAAATGAGGAGCCAGTGGTGTGACCGACACAAACCTTG  
 TATCCTGCACTGAAGTGGGACCTCGAATACCTGCAAGAGAATATTGGCAACGGAGATTTCTCTGTGTACA  
 GTGCCAGCACCCATAAGTTCTTATACTATGATGAGAAGAAGATGGCAATTTCCAGAACTTAAGCCAAG  
 GTCCAACAGGGAGGAAATTAATTTTCATGAGTTCGTTGAGAACTACAAGCTATACAGCAGCGCGGGGA  
 GAAGAGCGGTTGTATCTGCAGCAGACACTCAATGACACCGTGGGAGGAAGATTGTCATGGACTTCTTGG  
 GTTTTAACTGGAAGTGAATGACACCTGCTCACTATGATGAGCAGCAGAACTTTTGGCCAAATA  
 AAAGGCCATAAGAGATGCATCTTATTTCTCCGGATCAGTTCGAGTGCCTCTATCCATACCCTGTCCATC  
 ACCCTGTGACAGGCAGAGCCAGGTGGACTTTGACAATCCTGACTACGAGAGGTTCCCAATTTCCGAAA  
 TGTGGTTGGTTATGAGACAGTGGTTGGCCTGGGGATGTTCTTTACATCCCAATGTAAGTGGCACCAT  
 ATAGAGTCATTACTAAATGGGGGAATTACCATCACTGTGAACCTTCTGGTATAAGGGGGCTCCACCCCTA  
 AGAGAATCGAATATCCTCTCAAAGCTCATCAGAAAGTAGCCATCATGAGAAACATTGAGAAAGATGCTTGG  
 AGAGGCCTTGGGAACCCACAAGAGGTGGGCCTTTGTTGAACACCATGATTAAAGGCCGTTACAAC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_176958
<b>Insert Size:</b>	1050 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_176958.3</a> , <a href="#">NP_795932.2</a>
<b>RefSeq Size:</b>	6190 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	319594
<b>UniProt ID:</b>	<a href="#">Q8BLR9</a>
<b>Cytogenetics:</b>	19 C3

**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]