

Product datasheet for **RN210999**

Hif1a (NM_024359) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hif1a (NM_024359) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hif1a
Synonyms:	MOP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210999 representing NM_024359
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGCGCCGGCGGCGAGAACGAGAAGAAAAATAGGATGAGTTCGAAACGTCGAAAAGAAAAGTCTA
 GGGATGCAGCACGATCTCGGCGAAGCAAAGAGTCTGAAGTTTTTATGAGCTTGCTCATCAGTTGCCACT
 TCCCCACAACGTGAGCTCCCATCTTGATAAAGCTTCTGTTATGAGGCTCACCATCAGTTACTTACGTGTG
 AGGAAACTTCTAGGTGCTGGTGATCTTGACATTGAAGATGAAATGAAAGCACAGATGAACTGCTTTTATC
 TGAAAGCCCTGGATGGCTTTGTTATGGTGCTAACAGATGATGGTGACATGATTTACATTTCTGATAACGT
 GAACAAATACATGGGGTTGACTCAGTTTGAACAACTGGACACAGTGTGTTTATTTTACCCATCCATGT
 GACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCAGTGAGAAAGGGGAAAGAACAAAACA
 CGCAGCGAAGCTTTTTCTCAGAATGAAATGTACCCTAACAGCCGGGGAGGACGATGAACATCAAGTC
 AGCAACGTGGAAGGTGCTGCACTGCACAGGCCACATTCATGTGTATGATACCAGCAGTAACCAGCCGCAG
 TGTGGCTACAAGAAACCCGCTATGACGTGCTTGGTGCTGATTTGTGAACCCATTCCTCATCCATCAAACA
 TTGAAATTCCTTTAGACAGCAAGACATTTCTCAGTCGACACAGCCCTCGATATGAAATTTTCTTACTGTGA
 TGAAAGGATTACTGAGTTGATGGTTATGAGCCAGAAGAACTTTTGGCCGTTCAATTTATGAATATTAT
 CATGCTTTGGACTCTGATCATCTGACAAAACCTCATCATGACATGTTTACTAAAGGACAAGTCACCACAG
 GACAGTACAGGATGCTTGCAAAAAGAGGTGGATATGTCTGGTTGAGACTCAAGCAACTGTTATATATAA
 TACGAAGAAGTCTCAGCCACAGTGCATTGTGTGTGAATTATGTTGAAGTGGTATTATTCAGCACGAC
 TTGATTTTCTCCCTTCAACAAACAGAATCTGTCTCAAACCAAGTGAATCTTCAGATAGAAAATGACCC
 AGCTGTTCACTAAAGTGGAACTCTGAGGACACGAGCTGCCTCTTCGACAAGCTTAAAGAAAGCCCGATGC
 CCTGACTCTGCTAGCTCCAGCGGCTGGGACACGATCATATCACTGGACTTCGGCAGCGATGACACGGAA
 ACTGAAGACCAACAACCTGAAGATGTCCGTTGTACAATGATGTAATGTTCCCTCTTCTAATGAGAAAT
 TAAATATAAATCTGGCAATGTCTCCATTACCTGCCTCTGAAACTCAAAGCCACTTCGAAGTAGTGCTGA
 TCCTGCACTGAATCAAGAGGTTGCATTGAAGTTAGAGTCAAGCCAGAGTCACTGGGACTTTCTTTTACC
 ATGCCCCAGATTCAGATCAGCCAGCAAGTCTTCTGATGGAAGCACTAGACAAAGCTCACCTGAGCCTA
 ACAGTCCCAGTGAGTACTGCTTTGATGTGGACAGCGATATGGTCAATGTATTCAAGTTGGAAGTGGTGA
 AAAACTGTTTGTGAAGACACAGAAGCGAAGAATCCATTTTCAGCTCAGGACACTGATTTAGACTTGAA
 ATGCTGGCTCCCTATATCCAATGGATGATGATTTCCAGTTACGTTCCCTTTGATCAGTTGTCACCATTAG
 AGAGCAATTCTCCAAGCCCTCCGAGTGTGAGCACAGTTACAGGATTCCAGCAGACCCAGTTACAGAAACC
 TACCATCACTGTCACTGCCACCGCAACTGCCACCACTGATGAATCAAAGCAGTGACGAAGGACAATATA
 GAAGACATTAATACTGATTGCATCTCCACCTTCTACCAAGTACCTCAAGAAATGACCACTGCTAAGG
 CATCAGCATACAGTGGTACTCACAGTCGGACAGCCTCACCAGACAGAGCAGGAAAGAGAGTCATAGAAAA
 AACAGACAAAGCTCATCAAGGAGCCTTAACCTATCTGTCACTTTGAATCAAAGAAATACTGTTCTGAA
 GAAGAATTAACCCAAAGACAATAGCTTTGAGAATGCTCAGAGGAAGCGAAAAATGGAACATGATGGCT
 CCCTTTTTCAAGCAGCAGGAATTGGAACGTTACTGCAGCAACCAGGTGACCGTGCCCTACTATGTCGCT
 TTCTTGAAACGAGTGAAGGATACATATCTAGTGAACAGGATGGAATGGAGCAGAAGACAAATTTTTTA
 ATACCCTCTGATTTAGCATGTAGACTGCTGGGGCAGTCAATGGATGAGAGTGGATTACCACAGCTGACCA
 GTTACGATTGTGAAGTTAATGCTCCCATACAAGGCAGCAGAAACCTACTGCAGGGTGAAGAATTACTCAG
 AGCTTTGGATCAAGTTA**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024359
Insert Size: 2472 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](#)

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_024359.1](#), [NP_077335.1](#)

RefSeq Size: 3718 bp

RefSeq ORF: 2472 bp

Locus ID: 29560

UniProt ID: [O35800](#)

Cytogenetics: 6q24

Gene Summary: regulates transcription in response to low oxygen; may play a role in vascular biology [RGD, Feb 2006]