

## Product datasheet for **RR210999**

### Hif1a (NM\_024359) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR210999 representing NM\_024359  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGGCGCCGCGCGGAGAACGAGAAGAAAAATAGGATGAGTTCGAAACGTGAAAAGAAAAGTCTA  
 GGGATGCAGCACGATCTCGGCGAAGCAAAGAGTCTGAAGTTTTTATGAGCTTGCTCATCAGTTGCCACT  
 TCCCCACAACGTGAGCTCCCATCTTGATAAAGCTTCTGTTATGAGGCTCACCATCAGTTACTTACGTGTG  
 AGGAAACTTCTAGGTGCTGGTGATCTTGACATTGAAGTGAAATGAAAGCACAGATGAACTGCTTTTATC  
 TGAAAGCCCTGGATGGCTTTGTTATGGTGCTAACAGATGATGGTGACATGATTTACATTTCTGATAACGT  
 GAACAAATACATGGGGTTGACTCAGTTTGAACAACTGGACACAGTGTGTTTGTATTTACCCATCCATGT  
 GACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCAGTGAGAAAGGGGAAAGAACAAAACA  
 CGCAGCGAAGCTTTTTCTCAGAATGAAATGTACCCTAACAGCCGGGGAGGACGATGAACATCAAGTC  
 AGCAACGTGGAAGGTGCTGCACTGCACAGGCCACATTCATGTGTATGATACCAGCAGTAACCAGCCGCAG  
 TGTGGCTACAAGAAACCGCCTATGACGTGCTTGGTGCTGATTTGTGAACCATTCCTCATCCATCAAACA  
 TTGAAATTCCTTTAGACAGCAAGACATTTCTCAGTCGACACAGCCTCGATATGAAATTTTCTTACTGTGA  
 TGAAAGGATTACTGAGTTGATGGTTATGAGCCAGAAGAACTTTTGGCCGTTCAATTTATGAATATTAT  
 CATGCTTTGGACTCTGATCATCTGACAAAACCTCATCATGACATGTTTACTAAAGGACAAGTCACCACAG  
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 TTGATTTTCTCCCTTCAACAAACAGAATCTGTCTCAAACCAAGTGAATCTTCAGATAGAAAATGACCC  
 AGCTGTTCACTAAAGTGAATCTGAGGACAGAGCTGCCTCTTCGACAAGCTTAAAGAAAGCCCGATGC  
 CCTGACTCTGCTAGCTCCAGCGCTGGGACACGATCATATCACTGGACTTCGGCAGCGATGACACGGAA  
 ACTGAAGACCAACAACCTGAAGATGTCCGTTGTACAATGATGTAATGTTCCCTCTTCTAATGAGAAAT  
 TAAATATAAATCTGGCAATGTCTCCATTACCTGCCTCTGAAACTCAAAGCCACTTCGAAGTAGTGCTGA  
 TCCTGCACTGAATCAAGAGGTTGCATTGAAGTTAGAGTCAAGCCAGAGTCACTGGGACTTTCTTTTACC  
 ATGCCCCAGATTCAGATCAGCCAGCAAGTCTTCTGATGGAAGCACTAGACAAAGCTCACCTGAGCCTA  
 ACAGTCCCAGTGAGTACTGCTTTGATGTGGACAGCGATATGGTCAATGTATTCAAGTTGGAAGTGGTGA  
 AAAACTGTTTGTGAAGACACAGAAGCGAAGAATCCATTTTCAGCTCAGGACACTGATTTAGACTTGGAA  
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 AGAGCAATTCCTCAAGCCCTCCGAGTGTGAGCACAGTTACAGGATTCAGCAGACCCAGTTACAGAAACC  
 TACCATCACTGTCACTGCCACCGCAACTGCCACCACTGATGAATCAAAGCAGTGACGAAGGACAATATA  
 GAAGACATTAATACTGATTGCATCTCCACCTTCTACCAAGTACCTCAAGAAATGACCACTGCTAAGG  
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 GAAGAATTAACCCAAAGACAATAGCTTTGAGAATGCTCAGAGGAAGCGAAAAATGGAACATGATGGCT  
 CCCTTTTTCAAGCAGCAGGAATTGGAACGTTACTGCAGCAACCAGGTGACCGTGCCCTACTATGTCGCT  
 TTCTTGAAACGAGTGAAGGATACATATCTAGTGAACAGGATGGAATGGAGCAGAAGACAATTTTTTTA  
 ATACCCTGATTTAGCATGTAGACTGCTGGGGCAGTCAATGGATGAGAGTGGATTACCACAGCTGACCA  
 GTTACGATTGTGAAGTTAATGCTCCCATACAAGGCAGCAGAAACCTACTGCAGGGTGAAGAATTACTCAG  
 AGCTTTGGATCAAGTTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210999 representing NM\_024359  
 Red=Cloning site Green=Tags(s)

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MEGAGGENEKKNRMSERRRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRV
RKLLGAGDLIDEMKAMNCFYKALDGFVMVLTDDGDMIIYISDNVNKYMGLTQFELTGHSVDFDTHPC
DHEEMREMLTHRNGPVRKGKEQNTQRSFFLRMKCTLTSRGRMTNIKSATWKVLHCTGHIHVYDTSSNQPO
CGYKKPPMTCLVLICEPIPHPSNIEIPLDSKTFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIEYEEY
HALDSDHLTKTHHDMFTKGQVTTGQYRMLAKRGYVWVETQATVIYNTKNSQPQCIVCVNYVSGIIQHD
LIFSLQQTESVLPVSSDMKMTQLFTKVESEDTSCLFDKLLKKEPDALTLLAPAAGDTIIISLDFGSDDE
TEDQQLEDVPLYNDVMFPSSNEKLNINLAMSPLPASETPKPLRSSADPALNQEVALKLESSPESLGLSFT
MPQIQDQPASPSDGSTRQSSPEPNPSEYCFDSDMVNVFKLELVEKLF AEDTEAKNPFSAQDLDLE
MLAPYIPMDDDFQLRSFDQLSPLESNPSPPSVSTVTGFQQTQLQKPTITVTATATATTDESKAVTKDNI
EDIKILIASPPSTQVPQEMTTAKASAYSGTHSRTASPDRAKRVIEKTDKAHPRSLNLSVTLNQRNTVPE
EELNPKTIALQNAQRKRKMEHDGSLFQAAGIGTLLQQPGDRAPTMSLSWKRVKGYISSEQDGMETKIFL
IPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_024359

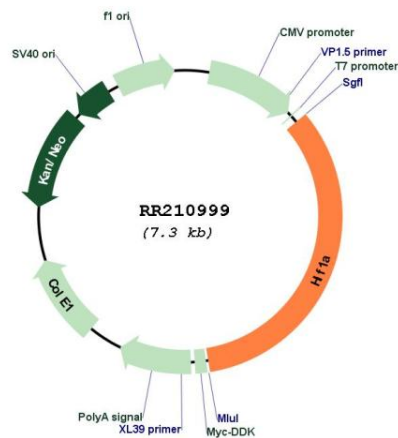
ORF Size: 2469 bp

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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_024359.1</a> , <a href="#">NP_077335.1</a>
<b>RefSeq Size:</b>	3718 bp
<b>RefSeq ORF:</b>	2472 bp
<b>Locus ID:</b>	29560
<b>UniProt ID:</b>	<a href="#">O35800</a>
<b>Cytogenetics:</b>	6q24
<b>MW:</b>	92.1 kDa
<b>Gene Summary:</b>	regulates transcription in response to low oxygen; may play a role in vascular biology [RGD, Feb 2006]

### Product images:



Circular map for RR210999