

### Specifications:

Gene:	hHIF1A
Accession:	NP_001521.1
Insert size:	2494bp
Concentration:	10µg at 0.2µg/µL

### Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

### Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

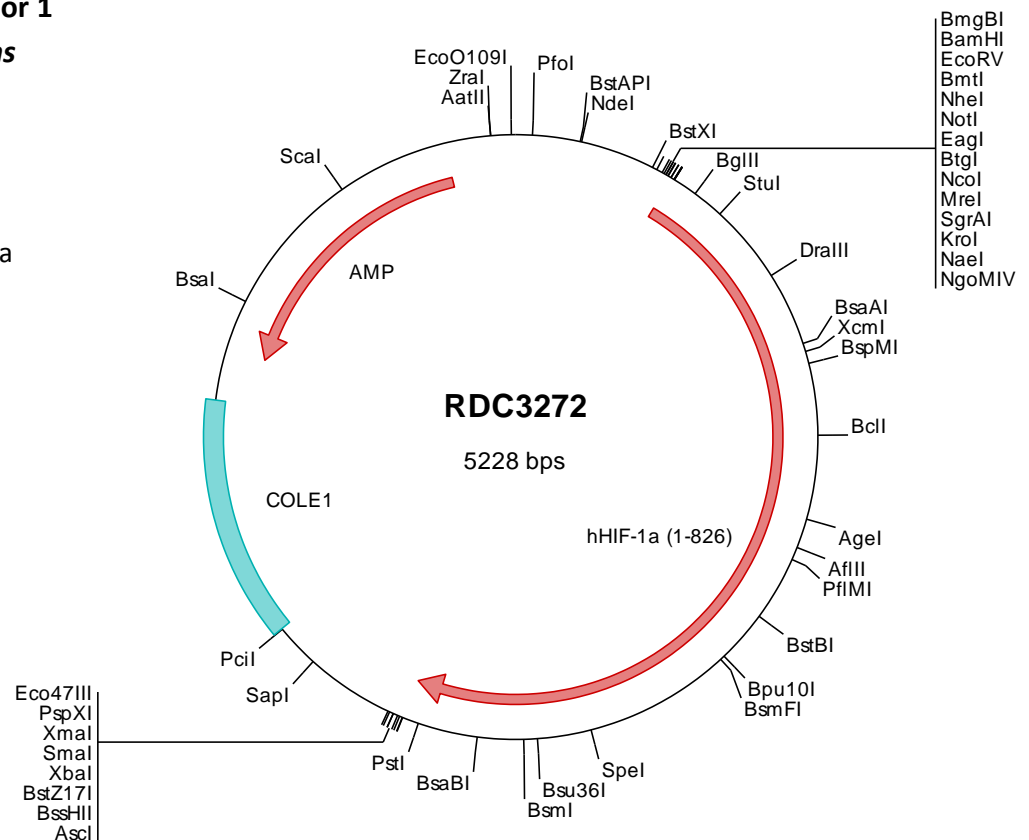
## hHIF-1 alpha/HIF1A cDNA Plasmid

**HIF1A hypoxia inducible factor 1  
subunit alpha [ *Homo sapiens*  
(human) ]**

**Also known as:** HIF1; MOP1;  
PASD8; HIF-1A; bHLHe78; HIF-  
1alpha; HIF1-ALPHA; HIF-1-alpha

### Summary:

HIF1A is the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

### > RDC3272 Plasmid DNA Sequence

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1 tcgcgcgcttt cgggtgatgac ggtgaaaacc totgacacat gcagctcccg gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccg
101 tcaggggcggc tcagcgggtg ttggcgggtg tcggggcgtgg cttaaactatg cggcatcaga gcagattgta ctgagagtgct accatattgct gttgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcg attcgccatt caggctcgcg aactgtttgg aagggcgatc ggtgcbggcc tcttcgctat
301 tacgcccagct ggcgaaaagg ggatgtgctg caagggcagtt aagttgggta acgcccaggt tttcccagtc acgacgttgt aaaacgacgg ccagtgtaatt
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5101 tattagaaaa aataaataaa taggggttcc gcgcacatt cccgaaaaa tgccacctga cgtctaagaa accattatta tcatgacatt aacctataa
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### > RDC3272 Translated Insert Sequence

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1 megaggandk kkiserrrke ksraaarsr skesvfyel ahqlplphnv sshldkasvm rltisylrvr klldagldi eddmkaqmcn fylkaldgfv
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601 vfqqtqieq tanattttat tdelktvtd rmedikilia spsptinke tssatsspyr dtqsrtaasp ragkgvieqt ekshprspnv lsvalsqrt
701 vpeelnpki lalqnaqrkr kmehdgslfq avigtllq pddhaattsl swkvrkgcks seqngmeqkt iilipsdlac rllqgsmdes glpqltsydc
801 evnapiggr nllqgeellr aldqvn

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