

Product datasheet for **RC202461L4V**

HIF-1 alpha (HIF1A) (NM_001530) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	HIF-1 alpha (HIF1A) (NM_001530) Human Tagged ORF Clone Lentiviral Particle
Symbol:	HIF-1 alpha
Synonyms:	bHLHe78; HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1; HIF1-ALPHA; MOP1; PASD8
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001530
ORF Size:	2478 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202461).
OTI Disclaimer:	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.
RefSeq:	NM_001530.2
RefSeq Size:	3958 bp
RefSeq ORF:	2481 bp
Locus ID:	3091
UniProt ID:	Q16665
Cytogenetics:	14q23.2
Domains:	PAS, HLH, PAC
Protein Families:	Transcription Factors



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Protein Pathways: mTOR signaling pathway, Pathways in cancer, Renal cell carcinoma

MW: 92.5 kDa

Gene Summary: This gene encodes 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. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2011]