

Product datasheet for **MR210895L3V**

Hif1a (NM_010431) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Hif1a (NM_010431) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Hif1a
Synonyms:	AA959795; bHLHe7; bHLHe78; HIF-1; HIF-1-alpha; HIF1; HIF1-alpha; HIF1alpha; MO; MOP1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010431
ORF Size:	2508 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210895).
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_010431.1 , NP_034561.1
RefSeq Size:	3973 bp
RefSeq ORF:	2511 bp
Locus ID:	15251
UniProt ID:	Q61221
Cytogenetics:	12 31.99 cM



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Gene Summary:

This gene encodes the alpha subunit which, along with the beta subunit, forms a heterodimeric transcription factor that regulates the cellular and developmental response to reduced oxygen tension. The transcription factor has been shown to regulate genes involved in several biological processes, including erythropoiesis and angiogenesis which aid in increased delivery of oxygen to hypoxic regions. The transcription factor also plays a role in the induction of genes involved in cell proliferation and survival, energy metabolism, apoptosis, and glucose and iron metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]