

## Product datasheet for **MG224296**

### Hif3a (NM\_001162950) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hif3a (NM_001162950) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hif3a
Synonyms:	bHLHe17; lpas; MOP7; NEPAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224296 representing NM\_001162950  
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGCGCGCC

ATGGCGTTGGGGCTGCAGCGCTGAGGTGCAACACCGAGCTGCGGAAGGAGAAGTCGCGGGACGCGGCC  
 GCAGCCGGCGCAGCCAGGAGACGGAGGTGCTGTACCAGCTGGCGCACACTCTGCCCTTTCGCGCGCGCGT  
 CAGCGCGCACCTGGACAAGGCCTCCATCATGCGCCTCACAATCAGCTACCTGCGCATGCACCGCCTCTGC  
 GCAGCAGGGGAGTGAACCAGGTGAAAAAGGGGAGAGCCACTGGACGCCTGCTACCTGAAGGCCCTGG  
 AGGGTTTCGTCATGGTACTACCGCCGAGGGAGACATGGCTTACCTGTGCGAAAAATGTCAGCAAGCACCT  
 GGGCCTCAGTCAGCTGGAGCTCATTGGACACAGTATCTTTGATTTTATCCATCCCTGTGACCAAGAGGAA  
 CTTCAAGACGCCCTGACCCCGAGCCGAACTGTCAAAGAAGAAGCTGGAAGCCCAACAGAGCGCCACT  
 TTTCCCTGCGAATGAAGAGCACGCTCACCAGCAGAGGGCGCACGCTCAACCTCAAAGCGCCACCTGGAA  
 GGTGCTGCACTGCTCAGGACATATGAGGGCCTACAAGCCCCTGCACAGACTTCCCTGCCGGGAGCCCT  
 CGCTCCGAGCCTCCCCTGCAATGCCTGGTGCTTATCTGTGAAGCCATCCCCACCCAGCCAGTCTGGAGC  
 CCCCCTGGGGCCGAGGGCCTTCTCAGTCGCCACAGCCTGGACATGAAGTTCACATACTGCGACGAGAG  
 GATTGCAGAAGTTGCTGGCTACAGTCTGATGACCTGATTGGCTGTTCTGCCTATGAATACATCCACGCT  
 TTGGACTCTGATGCGGTGAGCAGGAGCATCCACACTTTGTTGAGCAAGGGCCAGGAGTAAACGGGGCAGT  
 ATCGCTTCTGGCCCGGACTGGAGGCTATCTGTGGACTCAGACTCAGGCTACAGTGGTGTGAGGGGGGG  
 GGGCCCCCAGTCGAAAGTATCATCTGCGTCCACTTCTGATCAGCCGTGTAGAAGAGACCGGAGTGGT  
 CTGTCTCTGGAACAAACGAGCAACATACTCGCAGACCCCTCGGCTGAGTGCCTCCTCGCAGAAGGTA  
 TCCCTGGCAACAGTGTAGACTCTCCTGCTCCGCGGATCCTGGCCTTCTGCACCCCTCCGGCCCTGAGTGA  
 GGCTCCCTGGCTGCTGACCCTCGCCGTTTCTGTAGTCCAGACCTGCGCCGCTCATGGCACCCATCCTG  
 GATGGACCTCCCCCAGCTGCCACGCCAGCACCCACAAGCTACACGGAGACCCCAAAGTCTTCCGG  
 CTGATCTCCAGATAAGTTGACAGTGGGCTTGGAAAAATGCGCACAGACTCTCCACTGCCAGAAAAACAA  
 GACCGTGGAGACAGATCTAGATATAGCTCAGGACCCTGACACTCTGGACTTGGAGATGCTGGCCCTAC  
 ATCTCCATGGATGATGACTTCCAGCTCAACTCCAGCGAGCAATTGCCAAAGTCCACCGCAGACCTCCA  
 GGGTGGCCCGCAGGCCCGTCTCGGAGCTTCCATGGCCTGTGCTCCTATCCCTGAGCCCTCCCTACT  
 ACCCCGCTGGGGAGTGTCCACGACTGAACTGTTCCAGTCTTCCAGGGGGGATCGCCCCACAGCCTCC  
 CTGATGCCTGAACTCGGAAGAGGGCCTTGGCCCAGAGCTCAGAGGACAAAGGTTGGAGCTGCTGGAAA  
 CTAAGCCGCCAAGCGGTCCCAAGACTAGAACCTGGAAGCTTCTGCTGCCTCCGCTCAGCCTGAGTTT  
 CCTTCTGCAAGGTCGACAACTCCCGGGGAACCAGCAGGATCCCAGAGCCCCCTCGTGCATTCTCATGAG  
 CCCTTGGGCTAGCTCCCTCGTGTCTCTCTGCCAGCATGAGGAACTGTCCAGCCAGGAACCGCT  
 TCCCGCCAGCAGCAGGCTTGGCCAGACCCAC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG224296 representing NM\_001162950  
Red=Cloning site Green=Tags(s)

MALGLQVRVNTEL RKEKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLC  
 AAGEWNQVEKGGPELDACYLKALEGFVMTAEADMAYLSENVSKHLGLSQLELIGHISIFDFIHPCDQEE  
 LQDALTPRPNLSKKKLEAPTERHFSLRMKSTLTSRGRTLNLKAATWKVLHCSGHMRAYKPPAQTSPAGSP  
 RSEPLLQCLVLICEAIPHPASLEPPLGRGAFLSRHSLDMKFTYCDERIAEVAGYSPDDLIGCSAYEYIHA  
 LDSDAVSRSIHTLLSKGQAVTGQYRFLARTGGYLWTQTQATVVSNGRGPQSESIICVHFLISRVEETGVV  
 LSLEQTEQHTRPPRLSASSQKGIPIGNSVDSPAPRILAFHLHPPALSEASLAADPRRFCSPLRRLMAPIL  
 DGPPPAATPSTPQATRRPQSPLPADLPDKLTVGLENAHRLSTAQKNKTVETDLIAQDPDTLDLEMLAPY  
 ISMDDDFQLNSSEQLPKVHRRPPRVARRPRARSFHGLSPPIPEPSLLPRWSDPRLNCSSPSRGDRPTAS  
 LMPGTRKRALAQSSSEDKLELLETKPPKRSRPLEPGSFLLPPLSLFLLQGRQLPGNQDPRAPLVHSHE  
 PLGLAPSLLSLCQHEETVQPRNRFPPAAGLGQTH

TRTRPLE - GFP Tag - V

**Restriction Sites:** AscI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001162950

**ORF Size:** 1992 bp

**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.

**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\\_001162950.1](#), [NP\\_001156422.1](#)

**RefSeq Size:** 6916 bp

**RefSeq ORF:** 1995 bp

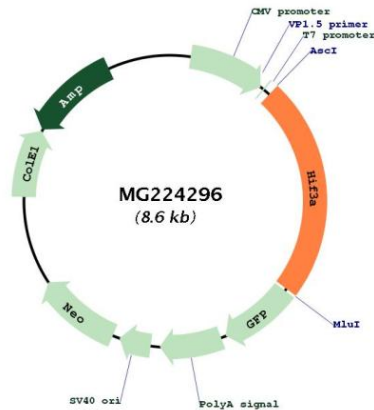
**Locus ID:** 53417

**UniProt ID:** [Q0VBL6](#)

**Cytogenetics:** 7 A2

**Gene Summary:** Acts as a transcriptional regulator in adaptive response to low oxygen tension. Acts as a regulator of hypoxia-inducible gene expression (PubMed:9840812, PubMed:11734856, PubMed:21546903). Plays a role in the development of the cardiorespiratory system (PubMed:18070924).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224296