

## Product datasheet for **RG210255**

### HIF3 alpha (HIF3A) (NM\_152795) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_152795) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIF3 alpha
Synonyms:	bHLHe17; HIF-3A; HIF3-alpha-1; IPAS; MOP7; PASD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG210255 representing NM\_152795  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGCTGGGGCTGCAGCGCGCAAGGTCGACCACGGAGCTGCGCAAGGAAAAGTCCCGGATGCGGCC  
GCAGCCGGCGCAGCCAGGAGACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCGCGGCGT  
CAGCGCCACCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCACCGCCTCTGC  
GCCGAGGGGAGTGAACCAGGTGGGAGCAGGGGAGAACCCTGGATGCCTGCTACCTGAAGGCCCTGG  
AGGGCTTCGTCATGGTGCTCACCGCGAGGGAGACATGGCTTACCTGTGCGGAGAAATGTCAGCAAACCT  
GGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTCCACCCCTGTGACCAAGAGGAG  
CTTCAGGACGCCCTGACCCCGCAGACCCCTGTCCAGGAGGAAGGTGGAGGCCCCACGGAGCGGTGCT  
TCTCCTTGCGCATGAAGAGTAACTCACCAGCCGCGGGCGCACCCCTAACCTCAAGGCGGCCACCTGGAA  
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GACTCAGAGCCCCGCTGCAAGTGCCTGGTGTCTATCTGCGAAGCCATCCCCACCCAGGCAGCCTGGAGC  
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GATTGCAGAAAGTGGCTGGCTATAGTCCCAGTACCTGATCGGCTGTTCCGCCCTACAGTACATCCACGCG  
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ATCGCTTCTGGCCCGGAGTGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTGAGGGGACG  
GGGCCCCAGTCGGAGAGTATCGTCTGTGTCCATTTTTAATCAGCCGGTGAAGAGACCCGAGTGGT  
CTGTCCCTGGAGCAAACGGAGCAACATTCTCGCAGACCCATTAGCGGGGCGCCCCCTCTCAGAAGGACA  
CCCCTAACCTGGGGACAGCCTTGACACCCCTGGCCCCGGATCCTTGCCTTCTGCACCCGCCTTCCCT  
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TCTCAGCCTGAGTTTCTTCTGACAGGAGGACCCAGGGAGCCTGCAGGACCCAGCACCCCACTC  
CTGAACCTGAATGAGCCCTGGGCTGGGCCCTCACTGCTCTCTCCGTAAGGACGAGGACACTACCC  
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

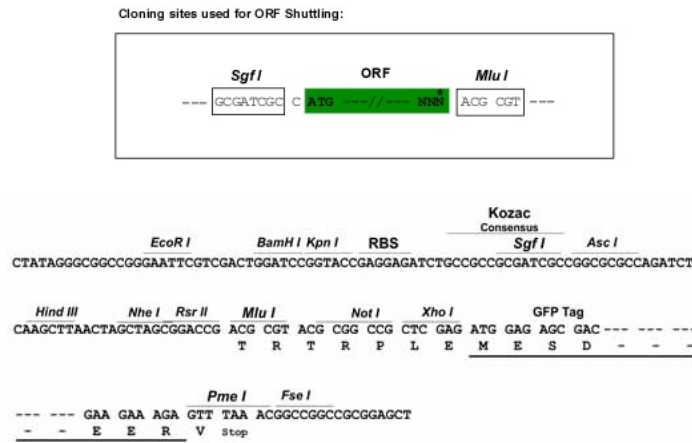
**Protein Sequence:** >RG210255 representing NM\_152795  
 Red=Cloning site Green=Tags(s)

MALGLQARSTTELKKEKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLC  
 AAGEWNQVGGAGEPLDACYLKALEGFVMTAEGDMAYLSENVSKHLGLSQLELIGHSIFDFIHPDQEE  
 LQDALTPQQLSRRKVEAPTERCFSLRMKSTLTSRGRTLNLKAATWKVLNCSGHMRAYKPPAQTSPAGSP  
 DSEPPLQCLVLICEAIPHPGSLEPPLGRGAFLSRHSMDMKFTYCDRIAIEVAGYSPDDLIGCSAYEYIHA  
 LDSDAVSKSIHTLLSKGQAVTGQYRFLARSGGYLWTQTQATVVSGRGPQSEIVCVHFLISRVEETGVV  
 LSLEQTEQHSRRPIQRGAPSQKDDTPNPGDSLDTGPRILAFHPPSLSEALAADPRRFCSPDLRRLG  
 ILDGASVAATPSTPLATRHPQSPLSADLPDELPGVTENVHRLFTSGKDTEAVETDLIDIAQDADALDLEML  
 APYISMDDDFQLNASEQLPRAYHRPLGAVPRPRARSFHGLSPPALEPSLLPRWGS DPRLSCSSPSRGDPS  
 ASSPMAGARKRTLAQSSSEDEGEVLLGVRPPKRSPSPEHENFLLFPLSLFLLTGGPAPGSLQDPSTPL  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

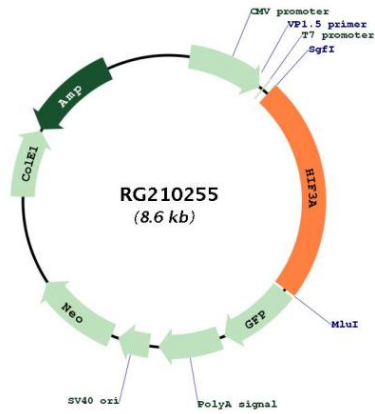


**ACCN:** NM\_152795

**ORF Size:** 2007 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_152795.2</a>, <a href="#">NP_690008.2</a></p>
<b>RefSeq Size:</b>	<p>5850 bp</p>
<b>RefSeq ORF:</b>	<p>2010 bp</p>
<b>Locus ID:</b>	<p>64344</p>
<b>UniProt ID:</b>	<p><a href="#">Q9Y2N7</a></p>
<b>Cytogenetics:</b>	<p>19q13.32</p>
<b>Domains:</b>	<p>PAS, HLH</p>
<b>Protein Families:</b>	<p>Druggable Genome, Transcription Factors</p>
<b>Gene Summary:</b>	<p>The protein encoded by this gene is the alpha-3 subunit of one of several alpha/beta-subunit heterodimeric transcription factors that regulate many adaptive responses to low oxygen tension (hypoxia). The alpha-3 subunit lacks the transactivation domain found in factors containing either the alpha-1 or alpha-2 subunits. It is thought that factors containing the alpha-3 subunit are negative regulators of hypoxia-inducible gene expression. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2011]</p>

Product images:



Circular map for RG210255