

## Product datasheet for **RG222665**

### HIF3 alpha (HIF3A) (NM\_152794) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_152794) 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:

>RG222665 representing NM\_152794  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGACTGGCAAGACCACAGGTCGACCACGGAGCTGCGCAAGGAAAAGTCCCGGGATGCGGCCCGCAGCC  
GGCGCAGCCAGGAGACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCGCGGGCTCAGCGC  
CCACCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCACCCGCTCTGCGCCGCA  
GGGGAGTGAACAGGTGGGAGCAGGGGAGAACCCTGGATGCCTGCTACCTGAAGGCCCTGGAGGGCT  
TCGTATGGTGCTCACCGCCGAGGGAGACATGGCTTACCTGTCGAGAATGTCAGCAAACACCTGGGCCCT  
CAGTCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTTCATCCACCCCTGTGACCAAGAGGAGCTTCAG  
GACGCCCTGACCCCCAGCAGACCCTGTCCAGGAGGAAGGTGGAGGCCCCACGGAGCGGTGCTTCTCCT  
TGCGCATGAAGAGTACACTCACCAGCCGCGGGCGCACCCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCT  
GAACTGCTCTGGACATATGAGGGCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCCTGACTCA  
GAGCCCCCGCTGCAGTGCCTGGTGTCTATCTGCGAAGCCATCCCCACCCAGGCAGCCTGGAGCCCCAC  
TGGGCCGAGGGGCTTCCCTCAGCCGCCACAGCCTGGACATGAAGTTCACCTACTGTGACGACAGGATTGC  
AGAAGTGGCTGGCTATAGTCCCAGTACCTGATCGGCTGTTCCGCCTACGAGTACATCCACGCGCTGGAC  
TCCGATGCGGTGACGAAGAGCATCCACACCTTGTGAGCAAGGGCCAGGCAGTAACAGGGCAGTATCGCT  
TCTGGCCCGGAGTGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTGAGGGGACGGGGCC  
CCAGTCGGAGAGTATCGTCTGTGTCCATTTTTAATCAGCCAGGTGGAAGAGACCCGAGTGGTGTGTCC  
CTGGAGCAAACGGAGCAACACTCTGCAGACCCATTGAGCGGGGCGCCCCCTCTCAGAAGGACACCCCTA  
ACCTGGGGACAGCCTTGACACCCCTGGCCCCGGATCCTTGCCCTTCTGCACCCGCTTCCCTGAGCGA  
GGCTGCCCTGGCCGTGACCCCCGCCGTTTCTGCAGCCCTGACCTCCGTGCGCTCCTGGGACCCATCCTG  
GATGGGGCTTCAGTAGCAGCCACTCCCAGCACCCCGCTGGCCACACGGCACCCCCAAAGTCTCTTTCGG  
CTGATCTCCAGATGAACTACCTGTGGCACCAGAAATGTGCACAGACTTTCACCTCCGGGAAAGACAC  
TGAGGCAGTGGAGACAGATTTAGATATAGCTCAGGATGCTGATGCTCTGGATTTGGAGATGCTGGCCCC  
TACATCTCCATGGATGATGACTTCCAGCTCAACGCCAGCGAGCAGCTACCCAGGGCCTACCACAGACCTC  
TGGGGGCTGTCCCCGGCCCCGTGCTCGGAGCTTCCATGGCTGTACCTCCAGCCCTTGAGCCCTCCCT  
GCTACCCCGCTGGGGAGTGACCCCGGCTGAGCTGCTCCAGCCCTTCCAGAGGGGACCCCTCAGCATCC  
TCTCCATGGCTGGGGCTCGGAAGAGGACCTGGCCAGAGCTCAGAGGACGAGGACGAGGGAGTGGAGC  
TGCTGGGAGTGGAGACTCCAAAAGTCCCCAGCCAGAACACGAAAACCTTCTGCTCTTCTCCTCTCAG  
CCTGAGTTTCTTCTGACAGGAGGACCAGCCCCAGGGAGCCTGCAGGACCCAGCACCCCACTCCTGAAC  
CTGAATGAGCCCCCTGGGCTGGGCCCTCACTGCTCTCTCCGTACTCAGACGAGGACACTACCCAGCCCC  
GGGGCCCCCTCCAGCCAAGGGCAGGCTCAGCCCAGGCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG222665 representing NM\_152794  
Red=Cloning site Green=Tags(s)

MDWQDHRSTTELKREKSRDAARRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLCAA  
 GEWNQVVGAGGEPLDACYLKALEGFVMVLTAEGDMAYLSENVSKHLGLSQLELIGHISIFDFIHPCDQEELQ  
 DALTPQQLSRRKVEAPTERCFSLRMKSTLTSRGRTLNLKAATWKVNLNCSGHMRAYKPPAQTSAPGSPDS  
 EPPLQCLVLICEAIPHPGSLEPPLGRGAFLSRHSLDMKF TYCDDRIA EVAGYSPDDLIGCSAYEYIHALD  
 SDAVSKSIHTLLSKGQAVTGQYRFLARSGYLWTQTQATVVSGGRGPQSEI VCVHFLISQVEETGVVLS  
 LEQTEQHSRRPIQRGAPSQKDTNPNGDSLDTPGPRILAF LHPPSLSEAALAADPRRF CSPDLRRLGPIL  
 DGASVAATPSTPLATRHPQSPLSADLPDEL PVGTENVHRLFTSGKDTEAVETDL DIAQDADALDLEMLAP  
 YISMDDDFQLNASEQLPRAYHRPLGAVPRPRARSFHGLSPPALEPSLLPRWGS DPRLSCSSPSRGPDSAS  
 SPMAGARKRTLAQSSEDEDEGVELLGVRPPKRSPEHENFLLFPLSLFLLTGGPAPGSLQDPSTPLLN  
 LNEPLGLGPSLLSPYSEDETTQPGGPFQPRAGSAQAD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152794

**ORF Size:** 2001 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_152794.4](#)

**RefSeq Size:** 2717 bp

**RefSeq ORF:** 2004 bp

**Locus ID:** 64344

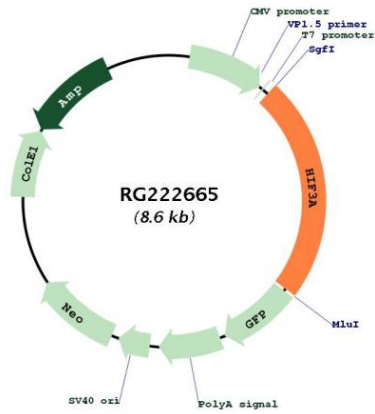
**UniProt ID:** [Q9Y2N7](#)

**Cytogenetics:** 19q13.32

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** 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]

Product images:



Circular map for RG222665