

## Product datasheet for **SC318135**

### HIF3 alpha (HIF3A) (NM\_152795) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_152795) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIF3 alpha
Synonyms:	bHLHe17; HIF-3A; HIF3-alpha-1; IPAS; MOP7; PASD7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene sequence for NM_152795 edited
CCGAGGGCTCCGGAGCGGCGACTGGCGAGCCATGGCGCTGGGGCTGCAGCGCGCAAGGTC
GACCACGGAGCTGCGCAAGGAAAAGTCCCAGGATGCGGCCCGCAGCCGGCGCAGCCAGGA
GACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCCGGCGTCAAGCGCCA
CCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCACCGCCTCTG
CGCCGACGGGGAGTGAACCAAGTGGGAGCAGGGGAGAACTGGATGCCTGTACCTGTC
GAAGGCCCTGGAGGGCTTCGTCATGGTGCTCACCGCCGAGGGAGACATGGCTTACCTGTC
GGAGAATGTCAGCAAACACCTGGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTT
TGATTTTACACCCCTGTGACCAAGAGGAGCTTCAGGACGCCCTGACCCCCAGCAGAC
CCTGTCCAGGAGGAAGGTGGAGGCCCCACGGAGCGGTGCTTCTCCTTGCAGCATGAAGAG
TACGCTCACCAGCCGGGGCGCACCCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCTGAA
CTGCTCTGGACATATGAGGGCCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCC
TGACTCAGAGCCCCGCTGCAGTGCCTGGTGCTCATCTGCGAAGCCATCCCCACCCAGG
CAGCCTGGAGCCCCACTGGGCCGAGGGCCTTCTCAGCCGCCACAGCCTGGACATGAA
GTTACCTACTGTGACGACAGGATTGCAGAAGTGGCTGGCTATAGTCCCGATGACCTGAT
CGGCTGTTCCGCCTACGAGTACATCCACGCGCTGGACTCCGATGCGGTACGAAGAGCAT
CCACACCTTGCTGAGCAAGGGCCAGGCAGTAACAGGGCAGTATCGCTTCCTGGCCCCGGAG
TGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTGAGGGGACGGGGCCCCCA
GTCGGAGAGTATCGTCTGTGTCCATTTTTAATCAGCCAGGTGGAAGAGACCCGAGTGGT
GCTGTCCCTGGAGCAAACGGAGCAACACTCTCGCAGACCCATTACGCGGGGCGCCCCCTC
TCAGAAGGACACCCTAACCTGGGGACAGCCTTGACACCCTGGCCCCGGATCCTTCTG
CCTCTGCACCCGCTTCCCTGAGCGAGGCTGCCCTGGCCGCTGACCCCCGCGTTTCTG
CAGCCCTGACCTCCGTGCCTCCTGGGACCCATCCTGGATGGGGCTTTCAGTAGCAGCCAC
TCCCAGCACCCCGCTGGCCACACGGCACCCCAAGTCCTCTTTTCGGCTGATCTCCAGA
TGAACCTGTGGGCACCGAGAATGTGCACAGACTTTCACCTCCGGGAAAGACTGA
GGCAGTGGAGACAGATTTAGATATAGCTCAGGATGCTGATGCTCTGGATTTGGAGATGCT
GGCCCCCTACATCTCCATGGATGATGACTTCCAGCTCAACGCCAGCGAGCAGCTACCCAG
GGCCTACCACAGACCTCTGGGGGCTGTCCCCGGCCCCGTGCTCGGAGCTTCCATGGCCT
GTCACCTCAGCCCTTGAGCCCTCCCTGCTACCCCGCTGGGGGAGTGACCCCCGGCTGAG
CTGCTCCAGCCCTTCCAGAGGGGACCCCTCAGCATCCTCTCCATGGCTGGGGCTCGGAA
GAGGACCCTGGCCAGAGCTCAGAGGACGAGGACGAGGGAGTGGAGCTGCTGGGAGTGG
ACCTCCCAAAAAGTCCCCAGCCAGAACACGAAAACCTTTCTGCTCTTCTCCTCAGCCT
GAGTTTCTTCTGACAGGAGGACAGCCCCAGGGAGCCTGCAGGACCCAGCACCCTCACT
CCTGAACCTGAATGAGCCCTGGGCCTGGGCCCTCACTGCTCTCTCCGTACTCAGACGA
GGACACTACCCAGCCCGGGGCCCTTCCAGCCAAGGGCAGGCTCAGCCAGGCTGACTG
AGCCGGCTCCTCTCCCCATCTGCCTTCTCCTCCCCAGAAAGGACCTCAACCACACTCCA
CGCCGGCAGCCAACGCACAGGATGGGGGCGCCAGGAGAGGGGCCCTCTCTCCTATGT
ACCCCTGCCCACCTCGGGCCTACCTCAGCCCTCACCCTCTGCCTGCTCCCAATCTGGG
GGCTCTCTGGGGTGGTCTCAGCTCAGTGACCTCTGGGAGGTGGTCCCTGGCCCCCTCCT
CTTCTCAGGATTTCTTTGGGGTTCTCAATACTTGGTTACCTATTATCCCTTTCTCT
GCCTCTTTGGCTTTATTTGGGAATCAGGGGTGAGGAGGGTTGGGGGGTTCATATCTG
TGTTTCCAGTTCGGGGAGAACAATGATCCACGGGTCAACGTGATCACATTTCTTCTA
AAAAAAAAAAAAAAAAAAAA
  
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_152795 unedited  
 GCATTTTGTAAATACGACTCACTATTAGGGCGGCCGCGATTTCGGCACGAGGCCGAGGGCTC  
 CGGAGCGGCGACTGGCGAGCCATGGCGCTGGGGCTGCAGCGCGCAAGGTCGACCACGGAG  
 CTGCGCAAGGAAAAGTCCCGGATGCGGCCCGCAGCCGGCGCAGCCAGGAGACCGAGGTG  
 CTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCGGGCGTCAGCGCCACCTGGACAAG  
 GCCTCTATCATGCGCCTACCATCAGCTACCTGCGCATGCACCGCCTCTGCGCCGAGGG  
 GAGTGGAACAGGTGGGAGCAGGGGAGAACCACTGGATGCCTACCTGAAGGCCCTG  
 GAGGGCTTCGTTCATGGTGTACCCGCCGAGGGAGACATGGCTTACCTGTGCGAGAATGTC  
 AGCAAACACCTGGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTTCATC  
 CACCCCTGTGACCAAGAGGAGCTTCAGGACGCCCTGACCCCCAGCAGACCCTGTCCAGG  
 AGGAAGGTGGAGGCCCCACGGAGCGGTGCTTCTCCTTGCGCATGAAGAGTACGCTCACC  
 AGCCGCGGGCGCACCCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCTGAACTGCTCTGGA  
 CATATGAGGGCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCCTGACTCAGAG  
 CCCCCGCTGCAGTGCCTGGTGTCTATCTCGAAGCCATCCCCACCCAGGCAGCCTGGAG  
 CCCCCACTGGGGCCGAGGGCCTTCTCAGCCGCCAGCCTGACATGAAGTCACCTACTGT  
 GACACAGGATTGAGAAGTGCTGGCTTAGTCCGATGACTGATCGCTGNTCGNCTACAGTA  
 CTNCCGCGCTGACTCGATGCGTCAGCAGACATTACACTGCTGACAGGGCCAGCATAACAG  
 GCATATCGTTCTGGCCGGAGTGTGGTACTGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_152795 unedited  
 ATGGACCCGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGTAGAAGGAAATG  
 TGATCACGTTGACCCGTGGATCATTGTTCTCCCCANAACCTGGAACACAGATATGACCC  
 CCCAACCTCCTCACCCCTGATCCCCAAAATAAAGCCAAGAGAGGCAGAGAAAGGGAT  
 AATGAGGTAACCAAGTATTGAGAACCCCAAGAGAAATCCTGAGAGAAGGAGGAGGGGGCC  
 AGGGACCACCTCCAGAGGTCACTGAGCTGAGACCACCCAGAGAGCCCCAGATTGGGA  
 GCAGGCAGAGGGGTGAGGGCTGAGGTAGGCCGAGGTGGCAGGGGTACATAGAGGAGA  
 GAGGGGCCCTCTCCTGGCGCCCCATCCTGTGCGTTGGCTGCCGGCGTGGAGTGTGGTT  
 GAGGTCCTTTCTGGGGGAGGAGAAGGCAGATGGGGAGAGGAGCCGGCTCAGTCAGCCTGG  
 GCTGAGCCTGCCCTTGGCTGGAAGGGGCCCCCGGGCTGGGTAGTGTCTCGTCTGAGTAC  
 GGAGAGAGCAGTGAGGGGCCAGGCCAGGGGCTATTGAGTTTCAAGAGTGGGGTGTCTG  
 GGGTCTGCAGGCTCCCTGGGGCTGGTCTCCTGTCAGAAGGAACTCAGGCTGAGAGGA  
 AAGAGCAGAAAGTTTTCTGTGTTCTGGGCTGGGGACCTTTTGGGAGGTCTCACTCCCAGC  
 AGCTCCACTCCCTCGTCTCTGCTCTGAGCTCTGGGCCAGGGTCTCTCCGAGCCCCA  
 NCCATGGGAGAGGATGCTGAGGGTCCCCTCTGGGAGGACTGGAGCAGCTCANCCGGGG  
 TCACTCCCAGCGGGGTAGCAGGGNAGGGCTCAGGGGCTGNAAGTACAAGCCATGGAAGC  
 TCCGAGCACGGGGCGGGGGACAGCCCCANAGGTCTGTGGGAAGCCCTGGGTAGCTGCTC  
 NCTTGCTTGTAGTGGAAGTCTCATTTCATGGAGATTAGGGGGCCGCATCTCC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_152795

**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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_152795.2](#), [NP\\_690008.2](#)

**RefSeq Size:** 5850 bp

**RefSeq ORF:** 2010 bp

**Locus ID:** 64344

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

**Cytogenetics:** 19q13.32

**Domains:** PAS, HLH

**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]

Transcript Variant: This variant (3) encodes the longest isoform (c). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.