

Product datasheet for **SC310198**

HIF3 alpha (HIF3A) (NM_022462) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_022462) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIF3A
Synonyms:	bHLHe17; HIF-3A; HIF3-alpha-1; IPAS; MOP7; PASD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_022462 edited
 ATGCGCCTCACCATCAGCTACCTGCGCATGCACCGCCTCTGCGCCGAGGGGAGTGGAAAC
 CAGGTGGGAGCAGGGGAGAACCACTGGATGCCTGCTACCTGAAGGCCCTGGAGGGCTTC
 GTCATGGTGCTCACCGCCGAGGGAGACATGGCTTACCTGTGCGAGAATGTCAGCAAACAC
 CTGGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTCCATCCACCCTGT
 GACCAAGAGGAGCTTCAGGACGCCCTGACCCCCAGCAGACCCCTGCCAGGAGGAAGGTG
 GAGGCCCCACGGAGCGGTGCTTCTCCTTGCATGAAGAGTACTACCAGCCCGGGG
 CGCACCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCTGAACTGCTCTGGACATATGAGG
 GCCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCCTGACTCAGAGCCCCGCTG
 CAGTGCCTGGTGCTCATCTGCGAAGCCATCCCCACCCAGGCAGCCTGGAGCCCCACTG
 GGCCGAGGGGCTTCTCAGCCGCCACAGCCTGGACATGAAGTTCACCTACTGTGACGAC
 AGGATTGCAGAAGTGGCTGGCTATAGTCCCGATGACCTGATCGGCTGTTCCGCTACGAG
 TACATCCACGCGTGGACTCCGACGCGGTGAGCAAGAGCATCCACACCTTGTGAGCAAG
 GGCCAGGCAGTAACAGGGCAGTATCGCTTCTGGCCCGGAGTGGTGGCTACCTGTGGACC
 CAGACCCAGGCCACAGTGGTGTGAGGGGACGGGGCCCCAGTCGGAGAGTATCGTCTGT
 GTCATTTTTTAATCAGCCGGGTGGAAGAGACCGGAGTGGTGTGCTGCCCTGGAGCAAACG
 GAGCAACATTCTCGCAGACCCATTACAGCGGGGCGCCCCCTCTCAGAAGGACACCCCTAAC
 CCTGGGGACAGCCTTGACACCCCTGGCCCCGGATCCTTGCTTCTGACCCCGCTTCC
 CTGAGCGAGGCTGCCCTGGCCGCTGACCCCGCCGTTTCTGCAGCCCTGACCTCCGTCGC
 CTCCTGGGACCCATCCTGGATGGGGCTTCAAGTACAGCCACTCCAGCACCCTGGCC
 ACACGGCACCCCCAAAGTCTCTTTCGGCTGATCTCCAGATGAACTACCTGTGGGCACC
 GAGAATGTGCACAGACTTTCACCTCCGGGAAAGACTGAGGCAGTGGAGACAGATTTA
 GATATAGCTCAGGATGCTGATGCTTGGATTTGGAGATGCTGGCCCCCTACATCTCCATG
 GATGATGACTTCCAGCTCAACGCCAGCAGCAGCTACCCAGGGCCTACCACAGACCTCTG
 GGGGCTGTCCCCGCCCCGTGCTCGGAGCTTCCATGGCCTGTACCTCCAGCCCTTGAG
 CCCTCCCTGCTACCCCGCTGGGGAGTGACCCCGGCTGAGCTGCTCCAGCCCTTCCAGA
 GGGGACCCCTCAGCATCTCTCCATGGCTGGGGCTCGGAAGAGGACCCTGGCCAGAGC
 TCAGAGGACGAGGACGAGGGAGTGGAGCTGCTGGGAGTGAACCTCCAAAAGTCCCCC
 AGCCAGAACACGAAAACCTTCTGCTCTTCTCTCAGCCTGAGTTTCTTCTGACAGGA
 GGACCAGCCCCAGGGAGCTGCAGGACCCAGCACCCTCCTGAACCTGAATGAGCCC
 CTGGGCTGGGCCCTACTGCTCTCTCGTACTCAGACGAGGACTACCAGCCCGGG
 GGCCCTTCCAGCAAGGCGAGGCTCAGCCAGGCTGACTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_022462
- Insert Size:** 1900 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_022462.2.
- 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_022462.2](#), [NP_071907.2](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1947 bp

Locus ID: 64344

UniProt ID: [Q9Y2N7](#)

Cytogenetics: 19q13.32

Domains: PAS

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 (2) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 3. The resulting isoform (b) has a distinct and shorter N-terminus, compared to 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.