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Product datasheet for SC110606

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:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_152795 edited
CCGAGGGCTCCGGAGCGGCGACTGGCGAGCCATGGCGCTGGGGCTGCAGCGCGCAAGGTC
GACCACGGAGCTGCGCAAGGAAAAGTCCCGGGATGCGGCCCGCAGCCGGCGCAGCCAGGA
GACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCGCGGCGTCAGCGCCCA
CCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCACCGCCTCTG
CGCCGCAGGGGAGTGGAACCAGGTGGGAGCAGGGGGAGAACCACTGGATGCCTGCTACCT
GAAGGCCCTGGAGGGCTTCGTCATGGTGCTCACCGCCGAGGGAGACATGGCTTACCTGTC
GGAGAATGTCAGCAAACACCTGGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTT
TGATTTCATCCACCCCTGTGACCAAGAGGAGCTTCAGGACGCCCTGACCCCCCAGCAGAC
CCTGTCCAGGAGGAAGGTGGAGGCCCCCACGGAGCGGTGCTTCTCCTTGCGCATGAAGAG
TACGCTCACCAGCCGCGGGCGCACCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCTGAA
CTGCTCTGGACATATGAGGGCCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCC
TGACTCAGAGCCCCCGCTGCAGTGCCTGGTGCTCATCTGCGAAGCCATCCCCCACCCAGG
CAGCCTGGAGCCCCCACTGGGCCGAGGGGCCTTCCTCAGCCGCCACAGCCTGGACATGAA
GTTCACCTACTGTGACGACAGGATTGCAGAAGTGGCTGGCTATAGTCCCGATGACCTGAT
CGGCTGTTCCGCCTACGAGTACATCCACGCGCTGGACTCCGATGCGGTCAGCAAGAGCAT
CCACACCTTGCTGAGCAAGGGCCAGGCAGTAACAGGGCAGTATCGCTTCCTGGCCCGGAG
TGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTCAGGGGGACGGGGCCCCCA
GTCGGAGAGTATCGTCTGTGTCCATTTTTTAATCAGCCAGGTGGAAGAGACCGGAGTGGT
GCTGTCCCTGGAGCAAACGGAGCAACACTCTCGCAGACCCATTCAGCGGGGCGCCCCCTC
TCAGAAGGACACCCCTAACCCTGGGGACAGCCTTGACACCCCTGGCCCCCGGATCCTTGC
CTTCCTGCACCCGCCTTCCCTGAGCGAGGCTGCCCTGGCCGCTGACCCCCGCCGTTTCTG
CAGCCCTGACCTCCGTCGCCTCCTGGGACCCATCCTGGATGGGGCTTCAGTAGCAGCCAC
TCCCAGCACCCCGCTGGCCACACGGCACCCCCAAAGTCCTCTTTCGGCTGATCTCCCAGA
TGAACTACCTGTGGGCACCGAGAATGTGCACAGACTCTTCACCTCCGGGAAAGACACTGA
GGCAGTGGAGACAGATTTAGATATAGCTCAGGATGCTGATGCTCTGGATTTGGAGATGCT
GGCCCCCTACATCTCCATGGATGATGACTTCCAGCTCAACGCCAGCGAGCAGCTACCCAG
GGCCTACCACAGACCTCTGGGGGCTGTCCCCCGGCCCCGTGCTCGGAGCTTCCATGGCCT
GTCACCTCCAGCCCTTGAGCCCTCCCTGCTACCCCGCTGGGGGAGTGACCCCCGGCTGAG
CTGCTCCAGCCCTTCCAGAGGGGACCCCTCAGCATCCTCTCCCATGGCTGGGGCTCGGAA
GAGGACCCTGGCCCAGAGCTCAGAGGACGAGGACGAGGGAGTGGAGCTGCTGGGAGTGAG
ACCTCCCAAAAGGTCCCCCAGCCCAGAACACGAAAACTTTCTGCTCTTTCCTCTCAGCCT
GAGTTTCCTTCTGACAGGAGGACCAGCCCCAGGGAGCCTGCAGGACCCCAGCACCCCACT
CCTGAACCTGAATGAGCCCCTGGGCCTGGGCCCCTCACTGCTCTCTCCGTACTCAGACGA
GGACACTACCCAGCCCGGGGGCCCCTTCCAGCCAAGGGCAGGCTCAGCCCAGGCTGACTG
AGCCGGCTCCTCTCCCCATCTGCCTTCTCCTCCCCCAGAAAGGACCTCAACCACACTCCA
CGCCGGCAGCCAACGCACAGGATGGGGGCGCCAGGAGAGGGGCCCCTCTCTCCTCTATGT
ACCCCCTGCCCACCTCGGGCCTACCTCAGCCCTCACCCCTCTGCCTGCTCCCAATCTGGG
GGCTCTCTGGGGTGGTCTCAGCTCAGTGACCTCTGGGAGGTGGTCCCTGGCCCCCTCCTC
CTTCTCTCAGGATTTCTCTTGGGGTTCTCAATACTTGGTTACCTCATTATCCCTTTCTCT
GCCTCTCTTGGCTTTATTTTGGGGAATCAGGGGTGAGGAGGGTTGGGGGGGTCATATCTG
TGTTTCCAGGTTCTGGGGAGAACAATGATCCACGGGTCAACGTGATCACATTTCCTTCTA
AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152795 unedited
GCATTTTGTAATACGACTCACTATTAGGGCGGCCGCGATTCGGCACGAGGCCGAGGGCTC
CGGAGCGGCGACTGGCGAGCCATGGCGCTGGGGCTGCAGCGCGCAAGGTCGACCACGGAG
CTGCGCAAGGAAAAGTCCCGGGATGCGGCCCGCAGCCGGCGCAGCCAGGAGACCGAGGTG
CTGTACCAGCTGGCTCACACGCTGCCCTTCGCCCGCGGCGTCAGCGCCCACCTGGACAAG
GCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCACCGCCTCTGCGCCGCAGGG
GAGTGGAACCAGGTGGGAGCAGGGGGAGAACCACTGGATGCCTGCTACCTGAAGGCCCTG
GAGGGCTTCGTCATGGTGCTCACCGCCGAGGGAGACATGGCTTACCTGTCGGAGAATGTC
AGCAAACACCTGGGCCTCAGTCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTCATC
CACCCCTGTGACCAAGAGGAGCTTCAGGACGCCCTGACCCCCCAGCAGACCCTGTCCAGG
AGGAAGGTGGAGGCCCCCACGGAGCGGTGCTTCTCCTTGCGCATGAAGAGTACGCTCACC
AGCCGCGGGCGCACCCTCAACCTCAAGGCGGCCACCTGGAAGGTGCTGAACTGCTCTGGA
CATATGAGGGCCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGCCCTGACTCAGAG
CCCCCGCTGCAGTGCCTGGTGCTCATCTGCGAAGCCATCCCCCACCCAGGCAGCCTGGAG
CCCCCACTGGGGCCGAGGGCCTTCCTCAGCCGCCCAGCCTGACATGAAGTCACCTACTGT
GACACAGGATTGCAGAAGTGCTGGCTTAGTCCGATGACTGATCGCTGNTCGNCTACAGTA
CTNCCGCGCTGACTCGATGCGTCAGCAGACATTCACACTGCTGACAGGGCCAGCATACAG
GCATATCGTTCTGGCCGGAGTGTGGTACTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152795 unedited
ATGGACCCGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTAGAAGGAAATG
TGATCACGTTGACCCGTGGATCATTGTTCTCCCCANAACCTGGAAACACAGATATGACCC
CCCCAACCCTCCTCACCCCTGATTCCCCAAAATAAAGCCAAGAGAGGCAGAGAAAGGGAT
AATGAGGTAACCAAGTATTGAGAACCCCAAGAGAAATCCTGAGAGAAGGAGGAGGGGGCC
AGGGACCACCTCCCAGAGGTCACTGAGCTGAGACCACCCCAGAGAGCCCCCAGATTGGGA
GCAGGCAGAGGGGTGAGGGCTGAGGTAGGCCCGAGGTGGGCAGGGGGTACATAGAGGAGA
GAGGGGCCCCTCTCCTGGCGCCCCCATCCTGTGCGTTGGCTGCCGGCGTGGAGTGTGGTT
GAGGTCCTTTCTGGGGGAGGAGAAGGCAGATGGGGAGAGGAGCCGGCTCAGTCAGCCTGG
GCTGAGCCTGCCCTTGGCTGGAAGGGGCCCCCGGGCTGGGTAGTGTCCTCGTCTGAGTAC
GGAGAGAGCAGTGAGGGGCCCAGGCCCAGGGGCTCATTCAGGTTCAGGAGTGGGGTGCTG
GGGTCCTGCAGGCTCCCTGGGGCTGGTCCTCCTGTCAGAAGGAAACTCAGGCTGAGAGGA
AAGAGCAGAAAGTTTTCGTGTTCTGGGCTGGGGGACCTTTTGGGAGGTCTCACTCCCAGC
AGCTCCACTCCCTCGTCCTCGTCCTCTGAGCTCTGGGCCAGGGTCCTCTTCCGAGCCCCA
NCCATGGGAGAGGATGCTGAGGGGTCCCCTCTGGGAGGNCTGGAGCAGCTCANCCCGGGG
TCACTCCCCAGCGGGGTAGCAGGGNAGGGCTCAGGGGCTGNAGTGACAAGCCATGGAAGC
TCCGAGCACGGGGCGGGGGGACAGCCCCANAGGTCTGTGGGAAGCCCTGGGTAGCTGCTC
NCTTGCCTTGAGCTGGAAGTCTCATTCATGGAGATTAGGGGGGCCGCATCTCC

Restriction Sites: NotI-NotI

ACCN: NM_152795

Insert Size: 2500 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 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_152795.1, NP_690008.1
RefSeq Size:	2090 bp
RefSeq ORF:	1899 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.