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Product datasheet for SC306504

HIF3 alpha (HIF3A) (NM_152794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_152794) 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_152794 edited
ATGGACTGGCAAGACCACAGGTCGACCACGGAGCTGCGCAAGGAAAAGTCCCGGGATGCG
GCCCGCAGCCGGCGCAGCCAGGAGACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCC
TTCGCCCGCGGCGTCAGCGCCCACCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGC
TACCTGCGCATGCACCGCCTCTGCGCCGCAGGGGAGTGGAACCAGGTGGGAGCAGGGGGA
GAACCACTGGATGCCTGCTACCTGAAGGCCCTGGAGGGCTTCGTCATGGTGCTCACCGCC
GAGGGAGACATGGCTTACCTGTCGGAGAATGTCAGCAAACACCTGGGCCTCAGTCAGCTG
GAGCTCATTGGACACAGCATCTTTGATTTCATCCACCCCTGTGACCAAGAGGAGCTTCAG
GACGCCCTGACCCCCCAGCAGACCCTGTCCAGGAGGAAGGTGGAGGCCCCCACGGAGCGG
TGCTTCTCCTTGCGCATGAAGAGTACGCTCACCAGCCGCGGGCGCACCCTCAACCTCAAG
GCGGCCACCTGGAAGGTGCTGAACTGCTCTGGACATATGAGGGCCTACAAGCCACCTGCG
CAGACTTCTCCAGCTGGGAGCCCTGACTCAGAGCCCCCGCTGCAGTGCCTGGTGCTCATC
TGCGAAGCCATCCCCCACCCAGGCAGCCTGGAGCCCCCACTGGGCCGAGGGGCCTTCCTC
AGCCGCCACAGCCTGGACATGAAGTTCACCTACTGTGACGACAGGATTGCAGAAGTGGCT
GGCTATAGTCCCGATGACCTGATCGGCTGTTCCGCCTACGAGTACATCCACGCGCTGGAC
TCCGATGCGGTCAGCAAGAGCATCCACACCTTGCTGAGCAAGGGCCAGGCAGTAACAGGG
CAGTATCGCTTCCTGGCCCGGAGTGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTG
GTGTCAGGGGGACGGGGCCCCCAGTCGGAGAGTATCGTCTGTGTCCATTTTTTAATCAGC
CAGGTGGAAGAGACCGGAGTGGTGCTGTCCCTGGAGCAAACGGAGCAACACTCTCGCAGA
CCCATTCAGCGGGGCGCCCCCTCTCAGAAGGACACCCCTAACCCTGGGGACAGCCTTGAC
ACCCCTGGCCCCCGGATCCTTGCCTTCCTGCACCCGCCTTCCCTGAGCGAGGCTGCCCTG
GCCGCTGACCCCCGCCGTTTCTGCAGCCCTGACCTCCGTCGCCTCCTGGGACCCATCCTG
GATGGGGCTTCAGTAGCAGCCACTCCCAGCACCCCGCTGGCCACACGGCACCCCCAAAGT
CCTCTTTCGGCTGATCTCCCAGATGAACTACCTGTGGGCACCGAGAATGTGCACAGACTC
TTCACCTCCGGGAAAGACACTGAGGCAGTGGAGACAGATTTAGATATAGCTCAGGATGCT
GATGCTCTGGATTTGGAGATGCTGGCCCCCTACATCTCCATGGATGATGACTTCCAGCTC
AACGCCAGCGAGCAGCTACCCAGGGCCTACCACAGACCTCTGGGGGCTGTCCCCCGGCCC
CGTGCTCGGAGCTTCCATGGCCTGTCACCTCCAGCCCTTGAGCCCTCCCTGCTACCCCGC
TGGGGGAGTGACCCCCGGCTGAGCTGCTCCAGCCCTTCCAGAGGGGACCCCTCAGCATCC
TCTCCCATGGCTGGGGCTCGGAAGAGGACCCTGGCCCAGAGCTCAGAGGACGAGGACGAG
GGAGTGGAGCTGCTGGGAGTGAGACCTCCCAAAAGGTCCCCCAGCCCAGAACACGAAAAC
TTTCTGCTCTTTCCTCTCAGCCTGAGTTTCCTTCTGACAGGAGGACCAGCCCCAGGGAGC
CTGCAGGACCCCAGCACCCCACTCCTGAACCTGAATGAGCCCCTGGGCCTGGGCCCCTCA
CTGCTCTCTCCGTACTCAGACGAGGACACTACCCAGCCCGGGGGCCCCTTCCAGCCAAGG
GCAGGCTCAGCCCAGGCTGACTGAGCCGGCTCCTCTCCCCATCTGCCTTCTCCTCCCCCA
GAAAGGACCTCAACCACACTCCACGCCGGCAGCCAACGCACAGGATGGGGGCGCCAGGAG
AGGGGCCCCTCTCTCCTCTATGTACCCCCTGCCCACCTCGGGCCTACCTCAGCCCTCACC
CCTCTGCCTGCTCCCAATCTGGGGGCTCTCTGGGGTGGTCTCAGCTCAGTGACCTCTGGG
AGGTGGTCCCTGGCCCCCTCCTCCTTCTCTCAGGATTTCTCTTGGGGTTCTCAATACTTG
GTTACCTCATTATCCCTTTCTCTGCCTCTCTTGGCTTTATTTTGGGGAATCAGGGGTGAG
GAGGGTTGGGGGGGTCATATCTGTGTTTCCAGGTTCTGGGGAGAACAATGATCCACGGGT
CAACGTGATCACATTTCCTTCTAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_152794

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_152794.1, NP_690007.1
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]
Transcript Variant: This variant (1) differs in the 5' UTR and 5' coding region, compared to variant 3. The resulting isoform (a) 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.