

Product datasheet for **RC215953**

HIF3 alpha (HIF3A) (NM_022462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_022462) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIF3 alpha
Synonyms:	bHLHe17; HIF-3A; HIF3-alpha-1; IPAS; MOP7; PASD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215953 representing NM_022462
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATCGCGCCCGCAGCCGGCGCAGCCAGGAGACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGC
 CCGCGCGGTGAGCGCCACCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCAC
 CGCCTCTGCGCCGAGCTGGAGCTCATTGGACACAGCATCTTTGATTTTCATCCACCCTGTGACCAAGAG
 GAGCTTACAGGACGCCCTGACCCCGCAGCAGCCCTGTCCAGGAGGAAGGTGGAGGCCCCACGGAGCGGT
 GCTTCTCCTTGCATGAAGAGTAACTCACCAGCCGCGGGCGCACCCCTCAACCTCAAGGCGCCACCTG
 GAAGGTGCTGAAGTCTGGACATATGAGGGCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGC
 CCTGACTCAGAGCCCCGCTGCAGTGCCTGGTGCATCTGCGAAGCCATCCCCACCCAGGAGCCTGG
 AGCCCCACTGGCCGAGGGGCTTCTCAGCCGCCACAGCCTGGACATGAAGTTCACCTACTGTGACGA
 CAGGATTGCAGAAGTGGCTGGCTATAGTCCCGATGACCTGATCGGCTGTTCCGCCTACGAGTACATCCAC
 GGCTGGACTCCGATGCGGTGAGCAAGAGCATCCACACCTTGCTGAGCAAGGGCCAGGCAGTAAACAGGGC
 AGTATCGCTTCTGGCCCGGAGTGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTACAGGGG
 ACGGGGCCCCAGTGGAGAGTATCGTCTGTGTCCATTTTTTAATCAGCCAGGTGGAAGAGACCGGAGTG
 GTGCTGTCCCTGGAGCAAACGGAGCAACTCTCGCAGACCCATTCAGCGGGGCGCCCTCTCAGAAGG
 ACACCCCTAACCTGGGGACAGCCTTGACACCCCTGGCCCCGGATCCTTGCTTCTGCACCCGCTTC
 CCTGAGCGAGGCTGCCCTGGCCGCTGACCCCGCGTTCCTGACGCCGTGACCTCCGTGCGCTCCTGGGA
 CCCACTGGATGGGGCTCAGTAGCAGCACTCCAGCACCCGCTGGCCACACGGCACCCCAAGTC
 CTCTTTCCGGCTGATCTCCAGATGAACACTGTGGGCACCGAGAATGTGCACAGACTCTCACCTCCGG
 GAAAGCACTGAGGCAGTGGAGACAGATTTAGATATAGCTCAGGATGCTGATGCTCTGGATTTGGAGATG
 CTGGCCCCCTACATCTCCATGGATGATGACTTCCAGCTCAACGCCAGCGAGCAGTACCCAGGGCTACC
 ACAGACCTCTGGGGGCTGTCCCCGGCCCCGTGCTCGGAGCTTCCATGGCCTGTACCTCCAGCCCTTGA
 GCCCTCCTGCTACCCCGCTGGGGGAGTGACCCCGGCTGAGCTGCTCCAGCCCTCCAGAGGGGACCCC
 TCAGCATCTCTCCATGGTGGGGCTCGGAAGAGGACCCTGGCCAGAGCTCAGAGGACGAGGACGAGG
 GAGTGGAGCTGTGGGAGTGAACCTCCAAAAGTCCCCAGCCAGAACACGAAAACCTTCTGCTCTT
 TCCTCTCAGCCTGAGTTTCTTCTGACAGGAGGACCAGCCCCAGGGAGCCTGCAGGACCCAGCACCCCA
 CTCTGAACCTGAATGAGCCCTGGGCTGGGCCCTCACTGCTCTCTCCGTAAGTACAGACGAGGACACTA
 CCCAGCCCGGGGCCCTTCCAGCCAAGGGCAGGCTCAGCCAGGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215953 representing NM_022462
 Red=Cloning site Green=Tags(s)

MRPAAGAARRRCCTSWLTRCPSPAASAPTWRPLSCASPSATCACTASAPQLELIGHISIFDFIHPCDQE
 ELQDALTPQQLSRRKVEAPTERCFSLRMKSTLTSRGRTLNLKAATWKVLNCSGHMRAKPPAQTSPAGS
 PDSEPLQLVLICEAIPHPGSLEPPLGRGAFSLRHSMDKFTYDDRIAIEVAGYSPDDLIGCSAYEYIH
 ALDSDAVSKSIHTLLSKGQAVTQYRFLARSGGYLWTQTQATVVSGRGPQSEIIVCVHFLISQVEETGV
 VLSLEQTEQHSRRPIQRGAPSQKDPNPGDSLDPGPRILAFHPPSLSEAALAADPRRFCSPDLRRLG
 PILDGASVAATPSTPLATRHPQSPLSADLPDELPGVTENVHRLFTSGKDEAVETDLIAQDADALDLEM
 LAPYISMDDDFQLNASEQLPRAYHRPLGAVPRPARSFHGLSPPALEPSLLPRWGSPPRLSCSSPSRGGP
 SASSPMAGARKRTLAQSSSEDEDEGVLLGVRPPKRSPEHENFLLFPLSLFLLTGGPAPGSLQDPSTP
 LLNLNEPLGLGPSLLSPYSEDTTQPGGPFQPRAGSAQAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8071_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022462

ORF Size: 1800 bp

OTI Disclaimer: 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_022462.4](#)

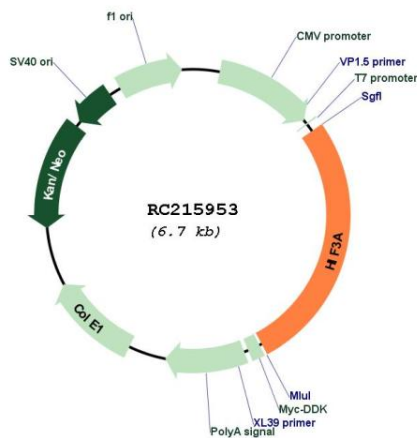
RefSeq Size: 2626 bp

RefSeq ORF: 1803 bp

Locus ID: 64344

UniProt ID: [Q9Y2N7](#)
Cytogenetics: 19q13.32
Domains: PAS
Protein Families: Druggable Genome, Transcription Factors
MW: 66 kDa
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 RC215953