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Product datasheet for RC232759

HIF3 alpha (HIF3A) (NM_152796) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF3 alpha (HIF3A) (NM_152796) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIF3A
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)

ORF Nucleotide Sequence:

>RC232759 representing NM_152796
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCCCGCAGCCGGCGCAGCCAGGAGACCGAGGTGCTGTACCAGCTGGCTCACACGCTGCCCTTCGC
CCGCGGCGTCAGCGCCCACCTGGACAAGGCCTCTATCATGCGCCTCACCATCAGCTACCTGCGCATGCAC
CGCCTCTGCGCCGCAGCTGGAGCTCATTGGACACAGCATCTTTGATTTCATCCACCCCTGTGACCAAGAG
GAGCTTCAGGACGCCCTGACCCCCCAGCAGACCCTGTCCAGGAGGAAGGTGGAGGCCCCCACGGAGCGGT
GCTTCTCCTTGCGCATGAAGAGTACACTCACCAGCCGCGGGCGCACCCTCAACCTCAAGGCGGCCACCTG
GAAGGTGCTGAACTGCTCTGGACATATGAGGGCCTACAAGCCACCTGCGCAGACTTCTCCAGCTGGGAGC
CCTGACTCAGAGCCCCCGCTGCAGTGCCTGGTGCTCATCTGCGAAGCCATCCCCCACCCAGGCAGCCTGG
AGCCCCCACTGGGCCGAGGGGCCTTCCTCAGCCGCCACAGCCTGGACATGAAGTTCACCTACTGTGACGA
CAGGATTGCAGAAGTGGCTGGCTATAGTCCCGATGACCTGATCGGCTGTTCCGCCTACGAGTACATCCAC
GCGCTGGACTCCGATGCGGTCAGCAAGAGCATCCACACCTTGCTGAGCAAGGGCCAGGCAGTAACAGGGC
AGTATCGCTTCCTGGCCCGGAGTGGTGGCTACCTGTGGACCCAGACCCAGGCCACAGTGGTGTCAGGGGG
ACGGGGCCCCCAGTCGGAGAGTATCGTCTGTGTCCATTTTTTAATCAGCCAGGTGGAAGAGACCGGAGTG
GTGCTGTCCCTGGAGCAAACGGAGCAACACTCTCGCAGACCCATTCAGCGGGGCGCCCCCTCTCAGAAGG
ACACCCCTAACCCTGGGGACAGCCTTGACACCCCTGGCCCCCGGATCCTTGCCTTCCTGCACCCGCCTTC
CCTGAGCGAGGCTGCCCTGGCCGCTGACCCCCGCCGTTTCTGCAGCCCTGACCTCCGTCGCCTCCTGGGA
CCCATCCTGGATGGGGCTTCAGTAGCAGCCACTCCCAGCACCCCGCTGGCCACACGGCACCCCCAAAGTC
CTCTTTCGGCTGATCTCCCAGATGAACTACCTGTGGGCACCGAGAATGTGCACAGACTCTTCACCTCCGG
GAAAGACACTGAGGCAGTGGAGACAGATTTAGATATAGCTCAGGACCCCAGCACCCCACTCCTGAACCTG
AATGAGCCCCTGGGTTTTCACTTTGTCACCCAGTCTGGAGTGCAGTGGCACAAACACAGCTCACCGCAGC
CTCGACCTCCTGGGCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

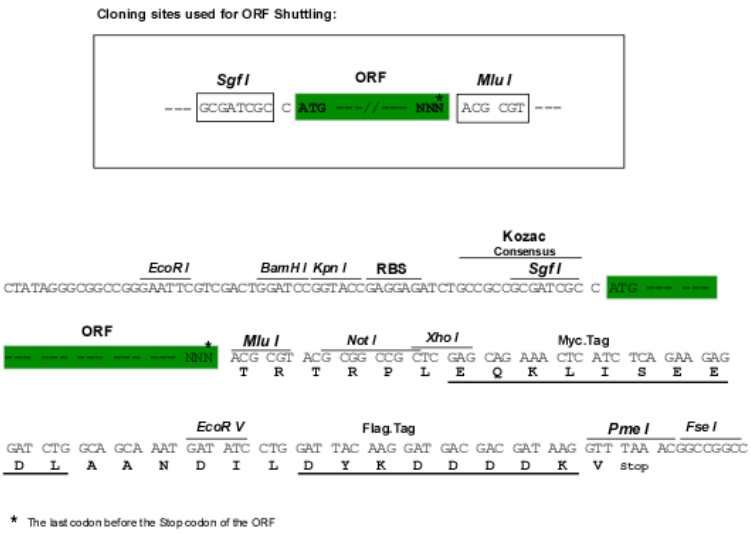
>RC232759 representing NM_152796
Red=Cloning site Green=Tags(s)

MRPAAGAARRPRCCTSWLTRCPSPAASAPTWTRPLSCASPSATCACTASAPQLELIGHSIFDFIHPCDQE
ELQDALTPQQTLSRRKVEAPTERCFSLRMKSTLTSRGRTLNLKAATWKVLNCSGHMRAYKPPAQTSPAGS
PDSEPPLQCLVLICEAIPHPGSLEPPLGRGAFLSRHSLDMKFTYCDDRIAEVAGYSPDDLIGCSAYEYIH
ALDSDAVSKSIHTLLSKGQAVTGQYRFLARSGGYLWTQTQATVVSGGRGPQSESIVCVHFLISQVEETGV
VLSLEQTEQHSRRPIQRGAPSQKDTPNPGDSLDTPGPRILAFLHPPSLSEAALAADPRRFCSPDLRRLLG
PILDGASVAATPSTPLATRHPQSPLSADLPDELPVGTENVHRLFTSGKDTEAVETDLDIAQDPSTPLLNL
NEPLGFHFVTQSGVQWHKHSSPQPRPPGLK

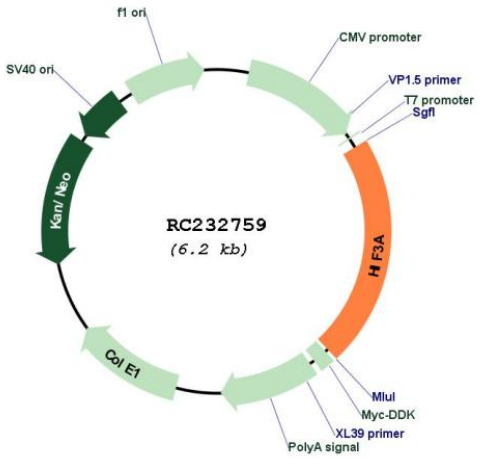
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_152796

ORF Size: 1350 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_152796.2, NP_690009.1
RefSeq Size:	1777 bp
RefSeq ORF:	1353 bp
Locus ID:	64344
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Transcription Factors
MW:	49 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]