OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC231410

HIF1 beta (ARNT) (NM_001197325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1 beta (ARNT) (NM_001197325) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIF1 beta
Synonyms:	bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC231410 representing NM_001197325
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGACTACTGCCAACCCCGAAATGACATCAGATGTACCATCACTGGGTCCAGCCATTGCCTCTG
GAAACTCTGGACCTGGAATTCAAGGTGGAGGAGCCATTGTCCAGAGGGCTATTAAGCGGCGACCAGGGCT
GGATTTTGATGATGATGGAGAAGGGAACAGTAAATTTTTGAGGTGTGATGATGATCAGATGTCTAACGAT
AAGGAGCGGTTTGCCAGGGAAAATCACAGTGAAATTGAACGGCGGCGACGGAACAAGATGACAGCCTACA
TCACAGAACTGTCAGATATGGTACCCACCTGTAGTGCCCTGGCTCGAAAACCAGACAAGCTAACCATCTT
ACGCATGGCAGTTTCTCACATGAAGTCCTTGCGGGGAACTGGCAACACATCCACTGATGGCTCCTATAAG
CCGTCTTTCCTCACTGATCAGGAACTGAAACATTTGATCTTGGAGGCAGCAGATGGCTTTCTGTTTATTG
TCTCATGTGAGACAGGCAGGGTGGTGTATGTGTCTGACTCCGTGACTCCTGTTTTGAACCAGCCACAGTC
TGAATGGTTTGGCAGCACACTCTATGATCAGGTGCACCCAGATGATGTGGATAAACTTCGTGAGCAGCTT
TCCACTTCAGAAAATGCCCTGACAGGGCGTATCCTGGATCTAAAGACTGGAACAGTGAAAAAGGAAGGTC
AGCAGTCTTCCATGAGAATGTGTATGGGCTCAAGGAGATCGTTTATTTGCCGAATGAGGTGTGGCAGTAG
CTCTGTGGACCCAGTTTCTGTGAATAGGCTGAGCTTTGTGAGGAACAGATGCAGGAATGGACTTGGCTCT
GTAAAGGATGGGGAACCTCACTTCGTGGTGGTCCACTGCACAGGCTACATCAAGGCCTGGCCCCCAGCAG
GTGTTTCCCTCCCAGATGATGACCCAGAGGCTGGCCAGGGAAGCAAGTTTTGCCTAGTGGCCATTGGCAG
ATTGCAGGTAACTAGTTCTCCCAACTGTACAGACATGAGTAATGTTTGTCAACCAACAGAGTTCATCTCC
CGACACAACATTGAGGGTATCTTCACTTTTGTGGATCACCGCTGTGTGGCTACTGTTGGCTACCAGCCAC
AGGAACTCTTAGGAAAGAATATTGTAGAATTCTGTCATCCTGAAGACCAGCAGCTTCTAAGAGACAGCTT
CCAACAGGTAGTGAAATTAAAAGGCCAAGTGCTGTCTGTCATGTTCCGGTTCCGGTCTAAGAACCAAGAA
TGGCTCTGGATGAGAACCAGCTCCTTTACTTTCCAGAACCCTTACTCAGATGAAATTGAGTACATCATCT
GTACCAACACCAATGTGAAGAACTCTAGCCAAGAACCACGGCCTACACTCTCCAACACAATCCAGAGGCC
ACAACTAGGTCCCACAGCTAATTTACCCCTGGAGATGGGCTCAGGACAGCTGGCACCCAGGCAGCAGCAA
CAGCAAACAGAATTGGACATGGTACCAGGAAGAGATGGACTGGCCAGCTACAATCATTCCCAGGTGGTTC
AGCCTGTGACAACCACAGGACCAGAACACAGCAAGCCCCTTGAGAAGTCAGATGGTTTATTTGCCCAGGA
TAGAGATCCAAGATTTTCAGAAATCTATCACAACATCAATGCGGATCAGAGTAAAGGCATCTCCTCCAGC
ACTGTCCCTGCCACCCAACAGCTATTCTCCCAGGGCAACACATTCCCTCCTACCCCCCGGCCGGCAGAGA
ATTTCAGGAATAGTGGCCTAGCCCCTCCTGTAACCATTGTCCAGCCATCAGCTTCTGCAGGACAGATGTT
GGCCCAGATTTCCCGCCACTCCAACCCCACCCAAGGAGCAACCCCAACTTGGACCCCTACTACCCGCTCA
GGCTTTTCTGCCCAGGTGGCTACCCAGGCTACTGCTAAGACTCGTACTTCCCAGTTTGGTGTGGGCAGCT
TTCAGACTCCATCCTCCTTCAGCTCCATGTCCCTCCCTGGTGCCCCAACTGCATCGCCTGGTGCTGCTGC
CTACCCTAGTCTCACCAATCGTGGATCTAACTTTGCTCCTGAGACTGGACAGACTGCAGGACAATTCCAG
ACACGGACAGCAGAGGGTGTGGGTGTCTGGCCACAGTGGCAGGGCCAGCAGCCTCATCATCGTTCAAGTT
CTAGTGAGCAACATGTTCAACAACCGCCAGCACAGCAACCTGGCCAGCCTGAGGTCTTCCAGGAGATGCT
GTCCATGCTGGGAGATCAGAGCAACAGCTACAACAATGAAGAATTCCCTGATCTAACTATGTTTCCCCCC
TTTTCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

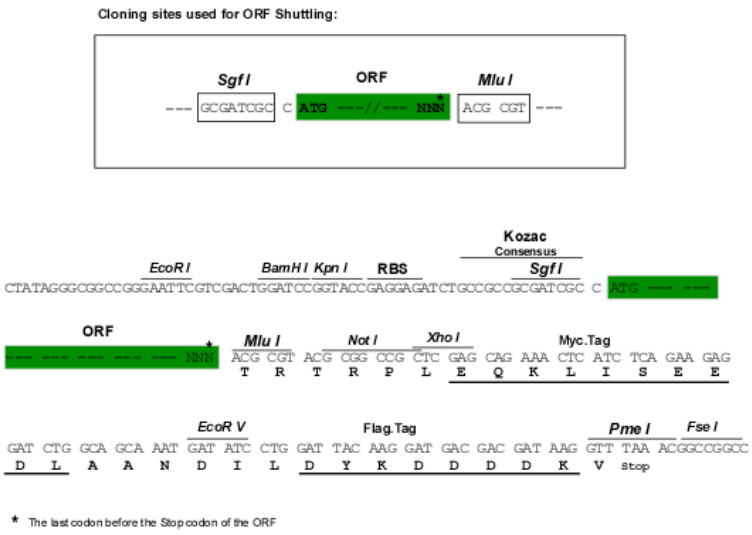
>RC231410 representing NM_001197325
Red=Cloning site Green=Tags(s)

MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDDQMSND
KERFARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPDKLTILRMAVSHMKSLRGTGNTSTDGSYK
PSFLTDQELKHLILEAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDDVDKLREQL
STSENALTGRILDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSVDPVSVNRLSFVRNRCRNGLGS
VKDGEPHFVVVHCTGYIKAWPPAGVSLPDDDPEAGQGSKFCLVAIGRLQVTSSPNCTDMSNVCQPTEFIS
RHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKGQVLSVMFRFRSKNQE
WLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRPTLSNTIQRPQLGPTANLPLEMGSGQLAPRQQQ
QQTELDMVPGRDGLASYNHSQVVQPVTTTGPEHSKPLEKSDGLFAQDRDPRFSEIYHNINADQSKGISSS
TVPATQQLFSQGNTFPPTPRPAENFRNSGLAPPVTIVQPSASAGQMLAQISRHSNPTQGATPTWTPTTRS
GFSAQVATQATAKTRTSQFGVGSFQTPSSFSSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQTAGQFQ
TRTAEGVGVWPQWQGQQPHHRSSSSEQHVQQPPAQQPGQPEVFQEMLSMLGDQSNSYNNEEFPDLTMFPP
FSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

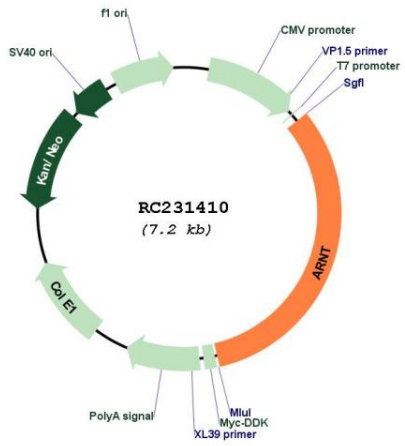
Cloning Scheme:



ACCN:	NM_001197325
ORF Size:	2319 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_001197325.2
RefSeq ORF:	2322 bp
Locus ID:	405
UniProt ID:	P27540
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Pathways in cancer, Renal cell carcinoma
MW:	85.3 kDa
Gene Summary:	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]

Product images:



Circular map for RC231410