

Product datasheet for **RC216865**

HIF1 beta (ARNT) (NM_178427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1 beta (ARNT) (NM_178427) 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)



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ORF Nucleotide Sequence:

>RC216865 representing NM_178427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGACTACTGCCAACCCGAAATGACATCAGATGTACCATCACTGGGTCCAGCCATTGCCTCTG
 GAAACTCTGGACCTGGAATTC AAGGTGGAGGAGCCATTGTCCAGAGGGCTATTAAGCGGCCAGCAGGGCT
 GGATTTTGATGATGATGGAGAAGGGAACAGTAAATTTTGGAGGTGTGATGATGATCAGATGTCTAACGAT
 AAGGAGCGGTTTCCAGGGAAAATCACAGTGAATTTGAACGGCGCGACGGAACAAGATGACAGCCTACA
 TCACAGAAGTGTGATATGGTACCCACCTGTAGTGCCCTGGCTCGAAAACAGACAAGTAACCATCTT
 ACGCATGGCAGTTTCTCACATGAAGTCTTGGGGAACTGGCAACACATCCACTGATGGCTCCTATAAG
 CCGTCTTCTCACTGATCAGGAACTGAAACATTTGATCTGGAGGCAGCAGATGGCTTTCTGTTTATTG
 TCTCATGTGAGACAGGCAGGGTGGTGTATGTGTCTGACTCCGTGACTCCTGTTTTGAACCAGCCACAGTC
 TGATGGTTTGGCAGCACACTCTATGATCAGGTGCACCCAGATGATGTGGATAAACTTCGTGAGCAGCTT
 TCCACTTCAGAAAATGCCCTGACAGGGCGTATCCCTGGATCTAAAGACTGGAACAGTGAAAAGGAAGGTC
 AGCAGTCTTCCATGAGAATGTGTATGGGCTCAAGGAGATCGTTTATTTGCCGAATGAGGTGTGGCAGTAG
 CTCTGTGGACCCAGTTTCTGTGAATAGGCTGAGCTTTGTGAGGAACAGATGCAGGAATGGACTTGGCTCT
 GTAAAGGATGGGGAACCTCACTTCGTGGTGGTCCACTGCACAGGCTACATCAAGGCTGGCCCCAGCAG
 GTGTTTCCCTCCCAGATGATGACCCAGAGGCTGGCCAGGGAAGCAAGTTTGCCTAGTGGCCATTGGCAG
 ATTGACAGTAAGTCTTCCAACTGTACAGACATGAGTAATGTTTGTCAACCAACAGAGTTTCTCTCC
 CGACACAACATTGAGGGTATCTTCACTTTGTGGATCACCGCTGTGTGGCTACTGTTGGCTACCAGCCAC
 AGGAACCTTAGGAAAGAATATTGTAATTTGTGATCCTGATCCTGAAGACCAGCAGCTTCTAAGAGACAGCTT
 CCAACAGGTAGTGAATTTAAAGGCCAAGTGTGTCTGTCTGATGTTCCGGTTCCGGTCTAAGAACCAAGAA
 TGGCTCTGGATGAGAACCAGCTCCTTTACTTTCCAGAACCCTTACTCAGATGAAATTTGAGTACATCATCT
 GTACCAACACCAATGTGAAGAACTTAGCCAAGAACCACGGCCTACACTCTCAACACAATCCAGAGGCC
 ACAACTAGGTCCCACAGCTAATTTACCCCTGGAGATGGGCTCAGGACAGCTGGCACCCAGGCAGCAGCAA
 CAGCAAACAGAATTGGACATGGTACCAGGAAGAGATGGACTGGCCAGCTACAATCATTCCCAGGTGGTTC
 AGCCTGTGACAACCACAGGACCAGAACACAGCAAGCCCTTGAGAAGTCAGATGGTTTATTTGCCAGGA
 TAGAGATCCAAGATTTTCAGAAATCTATCACAACTCAATGCGGATCAGAGTAAAGGCATCTCCTCCAGC
 ACTGTCCCTGCCACCAACAGCTATTCTCCAGGGCAACACATTCCTCCTACCCCCCGCCGGCAGAGA
 ATTTCCAGGAATAGTGGCCTAGCCCTCCTGTAACCATTGTCCAGCCATCAGCTTCTGCAGGACAGATGTT
 GGCCAGATTTCCCGCCACTCCAACCCACCAAGGAGCAACCCAACTTGGACCCCTACTACCCGCTCA
 GGCTTTTCTGCCAGCAGGTGGTACCCAGGCTACTGCTAAGACTCGTACTTCCCAGTTTGGTGTGGGCA
 GCTTTCAGACTCCATCCTCCTCAGCTCCATGTCCCTCCTGGTGGCCAACTGCATCGCTGGTGTGCTGC
 TGCTACCTAGTCTACCAATCGTGGATCTAATTTGCTCCTGAGACTGGACAGACTGCAGGACAATTC
 CAGACACGGACAGCAGAGGGTGTGGGTGTCTGGCCACAGTGGCAGGGCCAGCAGCCTCATCATCGTTCAA
 GTTCTAGTGAGCAACATGTTCAACAACCCAGCAGCAACCTGGCCAGCCTGAGGTCTTCCAGGAGAT
 GCTGTCCATGCTGGGAGATCAGAGCAACAGCTACAACAATGAAGAATTCCTGATCTAATATGTTTCCC
 CCCTTTTCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216865 representing NM_178427
Red=Cloning site Green=Tags(s)

MAATTANPEMTSDVPSLGPATIASGNSGPGIQGGGAIQVQRAIKRRPGLDFDDDGEGNSKFLRCDDQMSND
KERFARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKLTILRMVSHMKSLRGTGNTSTDGSYK
PSFLTDQELKHLILEAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDDVDKLRQL
STSENALTGRILDKTGTVKKEGQQSSMRMCMGSRSSFICRMRCGSSSVDPVSVNRLSFVRNRCRNLGS
VKDGEPHFVVVHCTGYIKAWPPAGVSLPDDPEAGQGSKFCLVAIGRLQVTSSPUNCTMSNVCQPTEFIS
RHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKGQVLSVMFRFRSKNQE
WLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRTLNTIQRQLGPTANLPLEMGSGQLAPRQQQ
QQTELDMPGRDGLASYNHSQVVQPVTGPEHSKPLEKSDGLFAQDRDPRFSEIYHNINADQSKGISSS
TVPATQQLFSQGNTPPTPRPAENFRNSGLAPPVTIVQPSASAGQMLAQISRHSNPTQGATPTWPTTRS
GFSAAQQVATQATAKTRTSQFGVGSFQTPSSFSSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQTAGQF
QTRTAEGVGVWPQWQQQPHRRSSSEQHVVQPPAQQPGQPEVFQEMLSMLGDQSNYNNEEFPDLTMFP
PFSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_178427.3](#)

RefSeq Size: 4858 bp

RefSeq ORF: 2325 bp

Locus ID: 405

UniProt ID: [P27540](#)

Cytogenetics: 1q21.3

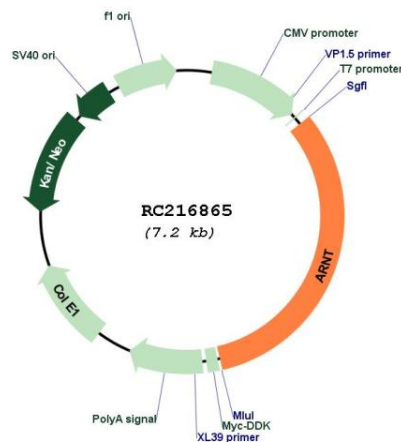
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Renal cell carcinoma

MW: 84.9 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 RC216865