

Product datasheet for **SC337433**

HIF1 beta (ARNT) (NM_001286035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1 beta (ARNT) (NM_001286035) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARNT
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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Fully Sequenced ORF: >NCBI ORF sequence for NM_001286035, the custom clone sequence may differ by one or more nucleotides

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ATGACATCAGATGTACCATCACTGGGTCCAGCCATTGCCTCTGAAACTCTGGACCTGGAATTCAGGTTG
GAGGAGCCATTGTCCAGAGGGCTATTAAGCGGCGACCAGGGCTGGATTTTGATGATGATGGAGAAGGGAA
CAGTAAATTTTTGAGGTGTGATGATCAGATGTCTAACGATAAGGAGCGGTTTCCAGGTCGGATGAT
GAGCAGAGCTCTGCGGATAAAGAGAGACTTGCCAGGGAAAATCACAGTAAATTGAACGGCGGCGACGGA
ACAAGATGACAGCCTACATCACAGAACTGTCAGATATGGTACCCACCTGTAGTGCCTGGCTCGAAAACC
AGACAAGTAACCATCTTACGCATGGCAGTTTCTCACATGAAGTCCTTGCGGGAACTGGCAACACATCC
ACTGATGGCTCTATAAGCCGTCTTCTCACTGATCAGGAACTGAAACATTTGATCTTGGAGGCAGCAG
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TTTGAACCAGCCACAGTCTGAATGGTTTGGCAGCACACTATGATCAGGTGCACCCAGATGATGTGGAT
AAACTTCGTGAGCAGCTTCCACTTCAGAAAATGCCCTGACAGGGCGTATCCTGGATCTAAAGACTGGAA
CAGTGA AAAAGGAAGGTCAGCAGTCTTCCATGAGAATGTGTATGGCTCAAGGAGATCGTTTATTTGCCG
AATGAGGTGTGGCAGTAGCTCTGTGGACCCAGTTTCTGTGAATAGGCTGAGCTTTGTGAGGAACAGATGC
AGGAATGGACTTGGCTCTGTAAGGATGGGGAACCTCACTTCGTGGTGGTCCACTGCACAGGCTACATCA
AGGCTGGCCCCAGCAGATGATGACCCAGAGGCTGGCCAGGGAAGCAAGTTTGCCTAGTGGCCATTGG
CAGATTGCAGGTAAGTAGTTCTCCAACTGTACAGACATGAGTAATGTTTGTCAACCAACAGAGTTCATC
TCCCGACACAACATTGAGGGTATCTTCACTTTTGTGGATCACCCTGTGTGGCTACTGTTGGCTACCAGC
CACAGAACTCTTAGGAAAGAATATTGTAGAATTCTGTATCCTGAAGACCAGCAGCTTCTAAGAGACAG
GAATGGCTCTGGATGAGAACCAGCTCCTTTACTTTCCAGAACCCTACTCAGATGAAATTGAGTACATCA
TCTGTACCAACACCAATGTGAAGAACTCTAGCCAAGAACCACGGCCTACACTCTCCAACACAATCCAGAG
GCCACAAC TAGTCCCACAGCTAATTTACCCCTGGAGATGGGCTCAGGACAGCTGGCACCACAGGACGAG
CAACAGCAAAACAGAAATTGGACATGGTACCAGGAAGAGATGGACTGGCCAGCTACAATCATTCCCAGGTGG
TTCAGCCTGTGACAACCACAGGACCAGAACACAGCAAGCCCTTGAGAAGTCAGATGGTTTATTTGCCCA
GGATAGAGATCCAAGATTTTCAGAAATCTATCACAACTCAATGCGGATCAGAGTAAAGGCATCTCTCC
AGCACTGTCCCTGCCACCAACAGCTATTCTCCAGGGCAACACATTCCCTCTACCCCCGGCCGGCAG
AGAATTTTCAGGAATAGTGGCTAGCCCCTCTGTAACCATTGTCCAGCCATCAGCTTCTGCAGGACAGAT
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TCAGGCTTTTCTGCCAGCAGGTGGCTACCCAGGCTACTGCTAAGACTCGTACTTCCCAGTTTGGTGTGG
GCAGCTTTCAGACTCCATCCTCCTTTCAGCTCCATGTCCCTCCCTGGTGGCCCAACTGCATCGCCTGGTGC
TGCTGCCTACCCTAGTCTACCAATCGTGGATCTAACTTTGCTCCTGAGACTGGACAGACTGCAGGACAA
TTCCAGACACGGACAGCAGAGGGTGTGGGTGTCTGGCCACAGTGGCAGGGCCAGCAGCCTCATCATCGTT
CAAGTTCTAGTGAGCAACATGTTCAACAACCGCCAGCAGCAACCTGGCCAGCCTGAGGTCTTCCAGGA
GATGCTGTCCATGCTGGGAGATCAGAGCAACAGCTACAACAATGAAGAATCCCTGATCTAACTATGTTT
CCCCCTTTTCAGAA TAG
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001286035

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001286035.1](#), [NP_001272964.1](#)

RefSeq Size: 4944 bp

RefSeq ORF: 2328 bp

Locus ID: 405

UniProt ID: [P27540](#)

Cytogenetics: 1q21.3

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Renal cell carcinoma

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]

Transcript Variant: This variant (5) contains an alternate exon in the 5' region, initiates translation at a downstream in-frame start codon, and uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (5) is shorter than isoform 1. **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.