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Product datasheet for SC337456

HIF1 beta (ARNT) (NM_001286036) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1 beta (ARNT) (NM_001286036) 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_001286036, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGACTACTGCCAACCCCGAAATGACATCAGATGTACCATCACTGGGTCCAGCCATTGCCTCTG
GAAACTCTGGACCTGGAATTCAAGGTGGAGGAGCCATTGTCCAGAGGGCTATTAAGCGGCGACCAGGGCT
GGATTTTGATGATGATGGAGAAGGGAACAGTAAATTTTTGAGGTGTGATGATGATCAGATGTCTAACGAT
AAGGAGCGGTTTGCCAGGTCGGATGATGAGCAGAGCTCTGCGGATAAAGAGAGACTTGCCAGGGAAAATC
ACAGTGAAATTGAACGGCGGCGACGGAACAAGATGACAGCCTACATCACAGAACTGTCAGATATGGTACC
CACCTGTAGTGCCCTGGCTCGAAAACCAGACAAGCTAACCATCTTACGCATGGCAGTTTCTCACATGAAG
TCCTTGCGGGGAACTGGCAACACATCCACTGATGGCTCCTATAAGCCGTCTTTCCTCACTGATCAGGAAC
TGAAACATTTGATCTTGGAGGCAGCAGATGGCTTTCTGTTTATTGTCTCATGTGAGACAGGCAGGGTGGT
GTATGTGTCTGACTCCGTGACTCCTGTTTTGAACCAGCCACAGTCTGAATGGTTTGGCAGCACACTCTAT
GATCAGGTGCACCCAGATGATGTGGATAAACTTCGTGAGCAGCTTTCCACTTCAGAAAATGCCCTGACAG
GGCGTATCCTGGATCTAAAGACTGGAACAGTGAAAAAGGAAGGTCAGCAGTCTTCCATGAGAATGTGTAT
GGGCTCAAGGAGATCGTTTATTTGCCGAATGAGGTGTGGCAGTAGCTCTGTGGACCCAGTTTCTGTGAAT
AGGCTGAGCTTTGTGAGGAACAGATGCAGGAATGGACTTGGCTCTGTAAAGGATGGGGAACCTCACTTCG
TGGTGGTCCACTGCACAGGCTACATCAAGGCCTGGCCCCCAGCAGGTGTTTCCCTCCCAGATGATGACCC
AGAGGCTGGCCAGGGAAGCAAGTTTTGCCTAGTGGCCATTGGCAGATTGCAGGTAACTAGTTCTCCCAAC
TGTACAGACATGAGTAATGTTTGTCAACCAACAGAGTTCATCTCCCGACACAACATTGAGGGTATCTTCA
CTTTTGTGGATCACCGCTGTGTGGCTACTGTTGGCTACCAGCCACAGGAACTCTTAGGAAAGAATATTGT
AGAATTCTGTCATCCTGAAGACCAGCAGCTTCTAAGAGACAGCTTCCAACAGGTAGTGAAATTAAAAGGC
CAAGTGCTGTCTGTCATGTTCCGGTTCCGGTCTAAGAACCAAGAATGGCTCTGGATGAGAACCAGCTCCT
TTACTTTCCAGAACCCTTACTCAGATGAAATTGAGTACATCATCTGTACCAACACCAATGTGAAGAACTC
TAGCCAAGAACCACGGCCTACACTCTCCAACACAATCCAGAGGCCACAACTAGGTCCCACAGCTAATTTA
CCCCTGGAGATGGGCTCAGGACAGCTGGCACCCAGGCAGCAGCAACAGCAAACAGAATTGGACATGGTAC
CAGGAAGAGATGGACTGGCCAGCTACAATCATTCCCAGGTGGTTCAGCCTGTGACAACCACAGGACCAGA
ACACAGCAAGCCCCTTGAGAAGTCAGATGGTTTATTTGCCCAGGATAGAGATCCAAGATTTTCAGAAATC
TATCACAACATCAATGCGGATCAGAGTAAAGGCATCTCCTCCAGCACTGTCCCTGCCACCCAACAGCTAT
TCTCCCAGGGCAACACATTCCCTCCTACCCCCCGGCCGGCAGAGAATTTCAGTGGCCTAGCCCCTCCTGT
AACCATTGTCCAGCCATCAGCTTCTGCAGGACAGATGTTGGCCCAGATTTCCCGCCACTCCAACCCCACC
CAAGGAGCAACCCCAACTTGGACCCCTACTACCCGCTCAGGCTTTTCTGCCCAGCAGGTGGCTACCCAGG
CTACTGCTAAGACTCGTACTTCCCAGTTTGGTGTGGGCAGCTTTCAGACTCCATCCTCCTTCAGCTCCAT
GTCCCTCCCTGGTGCCCCAACTGCATCGCCTGGTGCTGCTGCCTACCCTAGTCTCACCAATCGTGGATCT
AACTTTGCTCCTGAGACTGGACAGACTGCAGGACAATTCCAGACACGGACAGCAGAGGGTGTGGGTGTCT
GGCCACAGTGGCAGGGCCAGCAGCCTCATCATCGTTCAAGTTCTAGTGAGCAACATGTTCAACAACCGCC
AGCACAGCAACCTGGCCAGCCTGAGGTCTTCCAGGAGATGCTGTCCATGCTGGGAGATCAGAGCAACAGC
TACAACAATGAAGAATTCCCTGATCTAACTATGTTTCCCCCCTTTTCAGAATAG

Restriction Sites: SgfI-MluI

ACCN: NM_001286036

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_001286036.1, NP_001272965.1
RefSeq Size:	4897 bp
RefSeq ORF:	2364 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 (6) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (6) 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.