**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 RC217284L4V

## HIF1 beta (ARNT) (NM_178426) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | HIF1 beta (ARNT) (NM_178426) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | HIF1 beta |
| **Synonyms:** | aryl hydrocarbon receptor nuclear translocator; bHLHe2; dioxin receptor, nuclear translocator; HIF-1beta; HIF1B; HIF1BETA; hypoxia-inducible factor 1, beta subunit; OTTHUMP00000032943; TANGO |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_178426 |
| **ORF Size:** | 984 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC217284).` |
| **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. |
| **RefSeq:** | NM_178426.1, NP_848513.1 |
| **RefSeq Size:** | 3563 bp |
| **RefSeq ORF:** | 986 bp |
| **Locus ID:** | 405 |
| **Cytogenetics:** | 1q21.3 |
| **Protein Families:** | Druggable Genome, Transcription Factors |
| **Protein Pathways:** | Pathways in cancer, Renal cell carcinoma |

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**MW:** 35.8 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]