

## Product datasheet for **RG239562**

### **HIF1 beta (ARNT) (NM\_001286036) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HIF1 beta (ARNT) (NM_001286036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIF1 beta
Synonyms:	bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239562 representing NM\_001286036.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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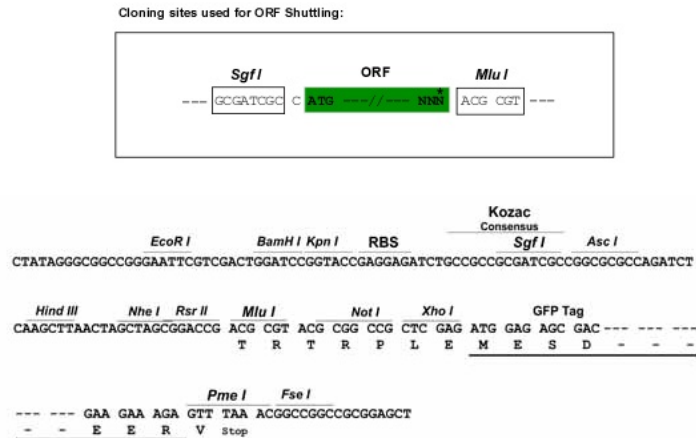
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CCCCCTTTTCAGAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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**Protein Sequence:** >Peptide sequence encoded by RG239562  
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAATTANPEMTSDVPSLGPALIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDQMSN
DKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKL TILRMAVSH
MKSLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFIVSCETGRVVVSDSVTPVLNQPQSEWFGS
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VSVNRLSFVRNRCRNLGSKVDGEPHFVVVHCTGYIKAWPPAGVSLPDDDPEAGQSKFCLVAIGRLQV
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LGPTANLPLEMGSGQLAPRQQQQTELD MVPGRDGLASYNHSQVVQPVT TTGPEHSPLEKSDGLFAQD
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```

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001286036

**ORF Size:** 2361 bp

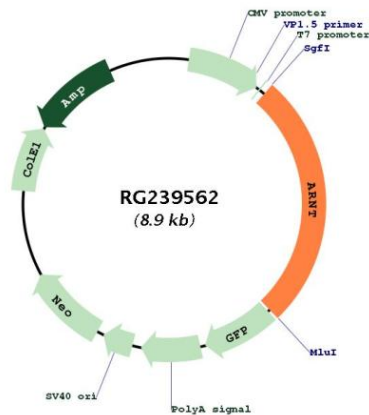
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

RefSeq:	<a href="#">NM_001286036.2</a>
RefSeq Size:	4897 bp
RefSeq ORF:	2364 bp
Locus ID:	405
UniProt ID:	<a href="#">P27540</a>
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Pathways in cancer, Renal cell carcinoma
MW:	86.8 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]

**Product images:**



Circular map for RG239562