

Product datasheet for **KN216724LP**

HIF1 beta (ARNT) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	HIF1 beta
Locus ID:	405
Components:	<p>KN216724G1, HIF1 beta gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACTACTGCCAACCCCGGTG</p> <p>KN216724G2, HIF1 beta gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGACTGGGGCGCCTCTAAA</p> <p>KN216724LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p>

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; Luciferase-Puro in green; Right arm in violet

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GCTAATTTTG TATTTTTAGT AGAGACGGGG TTTCCCATG TTGCCAGGC TGGTTTCGAA CCCCTGGCCA
CAGGTGATCC GGCCGCCTCG GCCTCCAAA GTGCTGGAT TACAGACGCG AGCCACCGCG CCCAGCCTAA
AATACCCATT TTAATTGCAT TTCAATGACG TTAAGTCTT TACTCGGTC ATTGACCTCT TACGCAAGGA GGGCGAGATT
AGGGAGACAG CTGGACTTCT TCCTCGCCCT CCCTTCACTG GACTGGCTGG CGCAGTGACT AGCCCTGCCC
TTGGACGATT TGGCATTTTC ATTGGTCAAT TTTTCTTAGG AGGCTGGCCG TGTGTTGACT CCGCTACTA
TATAGGCGGG GTCTCCCCGC CGCAGGGGCT GGGATGCTGG GGGCTGCTGA AGCCGCCATC TTGGATTCCG
CGGTAGCGGA GGCAGCGGTC AGGCGCCGCT TCTGGGAGT GGCCTTTCTT TTCCCTCCC TCCCGTTTCG
GTGGCGGCGG CTCCTCCCAC TGGGGGGGGG GGTGGCGCGG CGGCGGTGGC ATCTGCGGCC TGAGGGGACG
CAGCTGGAGC TGAAGGCGCC GGGGCGGGGC GGGGCGCGG AGAGACGGTG GGGGAGCGGT GACCTGGGGA
GGGGCCCGAT CCCGGGGACT TGGGTAGACT CGAGTATACC CAAGGGAGCG AGGGGGCAGG TGGGAGTTGA
GGGGGGCTCC CTGTCCTGAC CTCGGTTGGA GCGGCAGCCA GTGCGGGGCT GGCCCGCCT CACTCCTCGG
TCGGCGTCTG GTCTGTGATG TGGTCTCTT TTAACCCTT GCCCGCTGGA GCCGCTTGAT GCCGAAACT
GTAGGCAGAG GTCTCGGTT TACTTTAAGA GTAGTTTGA TTCATAAACC CTGGACCACA CTGCTCTTTA
GTTGAGGGGT TGCTTCCAAA CATTTAAAGG TTAGATTTT AATTTAAAAA ATAAAAAATG GACATTCTTT
GATATATACG ACGTTTCTTT AGGCTGTAC CTCCCACCG CAACCCCGT CCCCCTCTCC GTCCCCGGAC
TATACTTTGA AACTTAGATC TTGTGTTAAG AGGGCCTGTA GGTCTTTGCC TGCTGAGGGC AGGGGTTTGT
GTAATGGTTA TGGTTCCGGA CAGGTCTTTA
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GE100003, scramble sequence in pCas-Guide vector



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Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_001197325](#), [NM_001286035](#), [NM_001286036](#), [NM_001668](#), [NM_178426](#), [NM_178427](#), [NM_001350224](#), [NM_001350225](#), [NM_001350226](#)

UniProt ID: [P27540](#)

Synonyms: bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO

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:

