

Product datasheet for TL320380

OriGene Technologies, Inc.

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HIF-1 alpha (HIF1A) Human shRNA Plasmid Kit (Locus ID 3091)

Product data:

Product Type: shRNA Plasmids

Product Name: HIF-1 alpha (HIF1A) Human shRNA Plasmid Kit (Locus ID 3091)

Locus ID: 3091

Synonyms: bHLHe78; HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1; HIF1-ALPHA; MOP1; PASD8

Vector:pGFP-C-shLenti (TR30023)E. coli Selection:Chloramphenicol (34 ug/ml)

Mammalian Cell

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Puromycin

Selection: Format:

Lentiviral plasmids

Components: HIF1A - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 3091).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 001243084, NM 001530, NM 181054, NM 001530.1, NM 001530.2, NM 001530.3,

NM 181054.1, NM 181054.2, NM 001243084.1, BC012527, BC012527.2, NM 001530.4,

NM 181054.3

UniProt ID: Q16665

Summary: This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1),

which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate

metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic

vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

[provided by RefSeq, Jul 2011]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



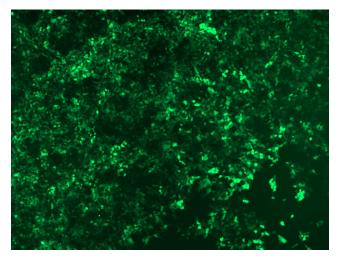


Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

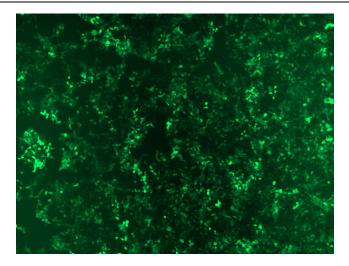
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

Product images:

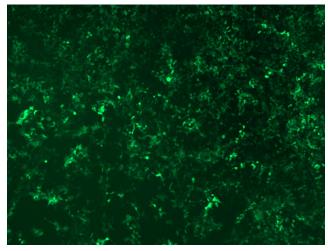


GFP signal was observed under microscope at 48 hours after transduction of TL320380A virus into HEK293 cells. TL320380A virus was prepared using lenti-shRNA TL320380A and [TR30037] packaging kit.

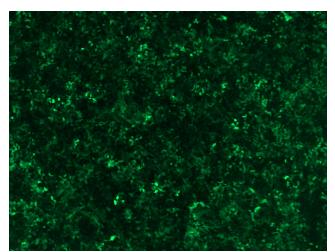




GFP signal was observed under microscope at 48 hours after transduction of TL320380B virus into HEK293 cells. TL320380B virus was prepared using lenti-shRNA TL320380B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320380C] virus into HEK293 cells. [TL320380C] virus was prepared using lenti-shRNA [TL320380C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320380D] virus into HEK293 cells. [TL320380D] virus was prepared using lenti-shRNA [TL320380D] and [TR30037] packaging kit.