

## Product datasheet for **TF320632**

### HIPK3 Human shRNA Plasmid Kit (Locus ID 10114)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	HIPK3 Human shRNA Plasmid Kit (Locus ID 10114)
Locus ID:	10114
Synonyms:	DYRK6; FIST3; PKY; YAK1
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	HIPK3 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 10114). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001048200</a> , <a href="#">NM_001278162</a> , <a href="#">NM_001278163</a> , <a href="#">NM_005734</a> , <a href="#">NM_005734.1</a> , <a href="#">NM_005734.2</a> , <a href="#">NM_005734.3</a> , <a href="#">NM_005734.4</a> , <a href="#">NM_001048200.1</a> , <a href="#">NM_001048200.2</a> , <a href="#">NM_001278162.1</a> , <a href="#">NM_001278163.1</a> , <a href="#">BC030112</a> , <a href="#">BC146311</a> , <a href="#">BC156873</a> , <a href="#">NM_001048200.3</a> , <a href="#">NM_005734.5</a>
UniProt ID:	<a href="#">Q9H422</a>
Summary:	Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE).[UniProtKB/Swiss-Prot Function]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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](mailto: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).