

## Product datasheet for **TR320305**

### CLK2 Human shRNA Plasmid Kit (Locus ID 1196)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CLK2 Human shRNA Plasmid Kit (Locus ID 1196)
Locus ID:	1196
Synonyms:	CDC-like kinase 2; CLK kinase; dual specificity protein kinase CLK2; hCLK2; hCLK2, MGC61500; MGC61500
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CLK2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 1196). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001291</a> , <a href="#">NM_001294338</a> , <a href="#">NM_001294339</a> , <a href="#">NM_003993</a> , <a href="#">NM_003993.1</a> , <a href="#">NM_003993.2</a> , <a href="#">NM_003993.3</a> , <a href="#">NM_001294339.1</a> , <a href="#">NM_001294338.1</a> , <a href="#">NM_001291.2</a> , <a href="#">BC053603</a> , <a href="#">BC006274</a> , <a href="#">BC014067</a> , <a href="#">NM_001363704</a> , <a href="#">NM_001294338.2</a> , <a href="#">NM_001294339.2</a>
UniProt ID:	<a href="#">P49760</a>
Summary:	This gene encodes a dual specificity protein kinase that phosphorylates serine/threonine and tyrosine-containing substrates. Activity of this protein regulates serine- and arginine-rich (SR) proteins of the spliceosomal complex, thereby influencing alternative transcript splicing. Chromosomal translocations have been characterized between this locus and the PAFAH1B3 (platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)) gene on chromosome 19, resulting in the production of a fusion protein. Note that this gene is distinct from the TELO2 gene (GeneID:9894), which shares the CLK2 alias, but encodes a protein that is involved in telomere length regulation. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]
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).