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Product datasheet for TL320713

RIOK2 Human shRNA Plasmid Kit (Locus ID 55781)

Product data:

Product Type:	shRNA Plasmids
Product Name:	RIOK2 Human shRNA Plasmid Kit (Locus ID 55781)
Locus ID:	55781
Synonyms:	RIO2
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	RIOK2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 55781). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001159749, NM_018343, NM_018343.1, NM_018343.2, NM_001159749.1, BC000953, NM_001159749.2, NM_018343.3
UniProt ID:	Q9BVS4
Summary:	Serine/threonine-protein kinase involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in export of the 40S pre-ribosome particles (pre-40S) from the nucleus to the cytoplasm. Its kinase activity is required for the release of NOB1, PNO1 and LTV1 from the late pre-40S and the processing of 18S-E pre-rRNA to the mature 18S rRNA (PubMed:19564402). Regulates the timing of the metaphase-anaphase transition during mitotic progression, and its phosphorylation, most likely by PLK1, regulates this function (PubMed:21880710).[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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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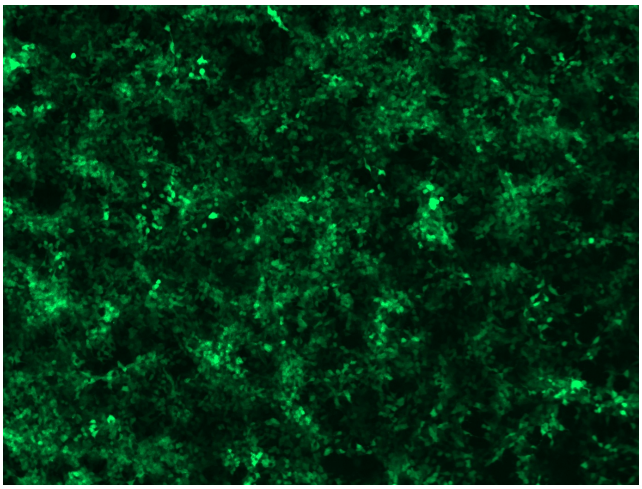
Performance Guaranteed:

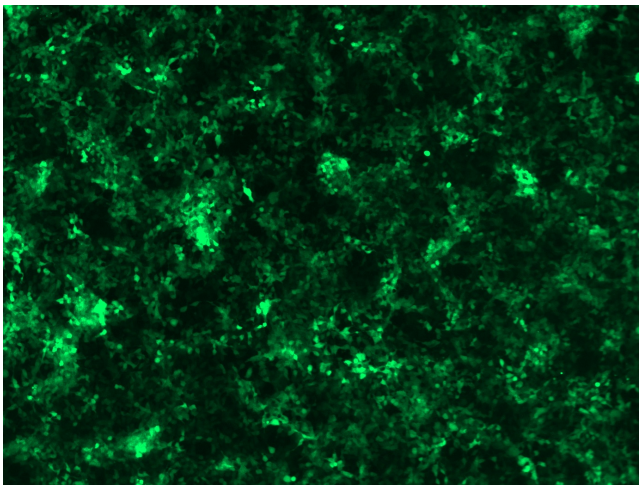
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

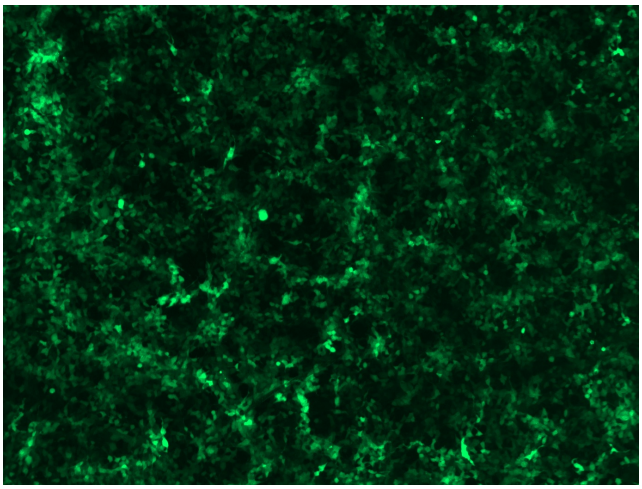
Product images:



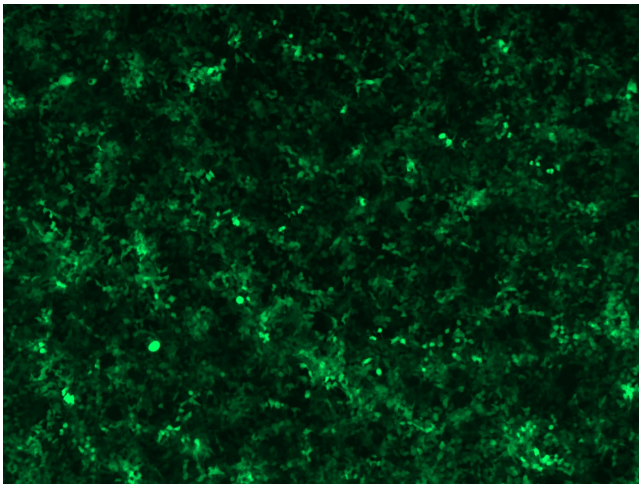
GFP signal was observed under microscope at 48 hours after transduction of TL320713A virus into HEK293 cells. TL320713A virus was prepared using lenti-shRNA TL320713A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL320713B virus into HEK293 cells. TL320713B virus was prepared using lenti-shRNA TL320713B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320713C] virus into HEK293 cells. [TL320713C] virus was prepared using lenti-shRNA [TL320713C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320713D] virus into HEK293 cells. [TL320713D] virus was prepared using lenti-shRNA [TL320713D] and [TR30037] packaging kit.