

Product datasheet for **TL310301**

POLR2A Human shRNA Plasmid Kit (Locus ID 5430)

Product data:

Product Type:	shRNA Plasmids
Product Name:	POLR2A Human shRNA Plasmid Kit (Locus ID 5430)
Locus ID:	5430
Synonyms:	hRPB220; hsRPB1; NEDHIB; POLR2; POLRA; RPB1; RPBh1; RpiILS; RPO2; RPOL2
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	POLR2A - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5430). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_000937 , NM_000937.1 , NM_000937.2 , NM_000937.3 , NM_000937.4 , BC067295 , BC107140 , BC137231 , NM_000937.5
UniProt ID:	P24928
Summary:	This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. [provided by RefSeq, Jul 2008]
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 .

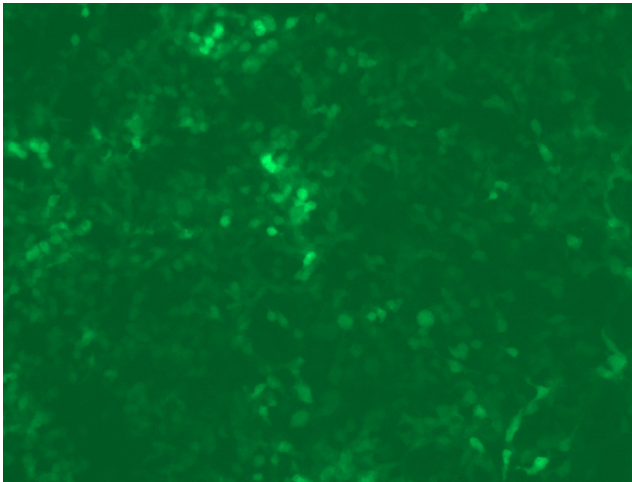


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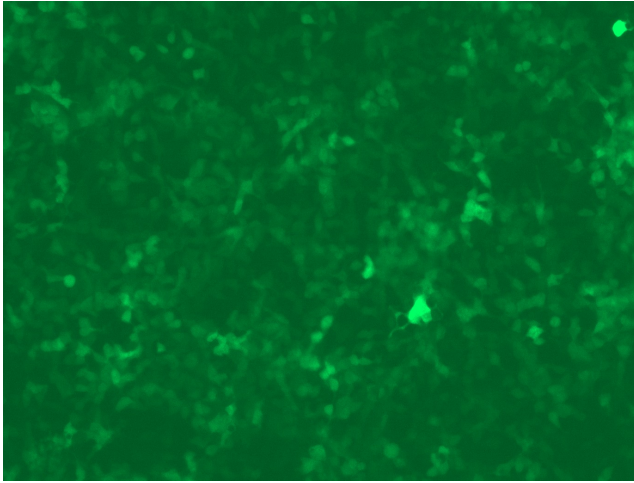
**Performance
Guaranteed:**

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.

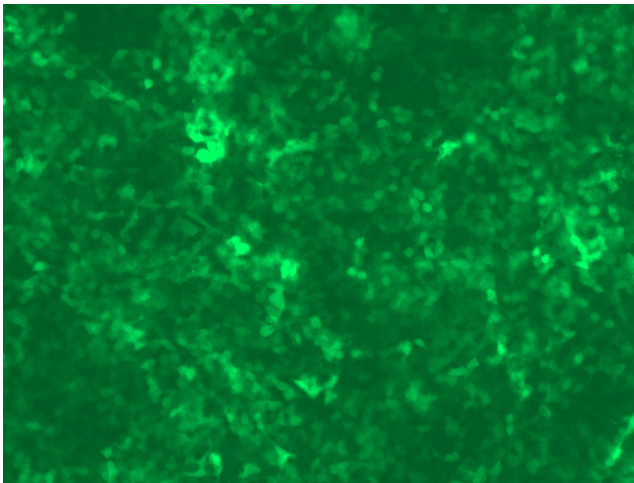
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

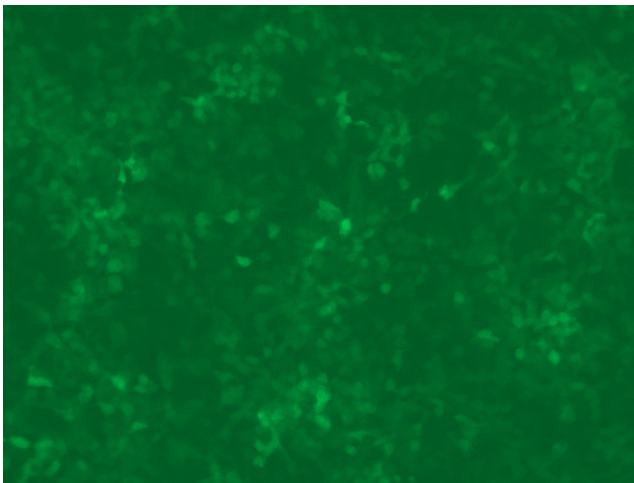
GFP signal was observed under microscope at 48 hours after transduction of TL310301A virus into HEK293 cells. TL310301A virus was prepared using lenti-shRNA TL310301A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL310301B virus into HEK293 cells. TL310301B virus was prepared using lenti-shRNA TL310301B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310301C] virus into HEK293 cells. [TL310301C] virus was prepared using lenti-shRNA [TL310301C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310301D] virus into HEK293 cells. [TL310301D] virus was prepared using lenti-shRNA [TL310301D] and [TR30037] packaging kit.