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Product datasheet for TL310217V

PPP4C Human shRNA Lentiviral Particle (Locus ID 5531)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	PPP4C Human shRNA Lentiviral Particle (Locus ID 5531)
Locus ID:	5531
Synonyms:	PP-X; PP4; PP4C; PPH3; PPP4; PPX
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	PPP4C - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001303503, NM_001303504, NM_001303506, NM_001303507, NM_002720, NM_002720.1, NM_002720.2, BC001416, BC001416.2, NM_002720.3
UniProt ID:	P60510
Summary:	Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on Ser-140 (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to chromatin.[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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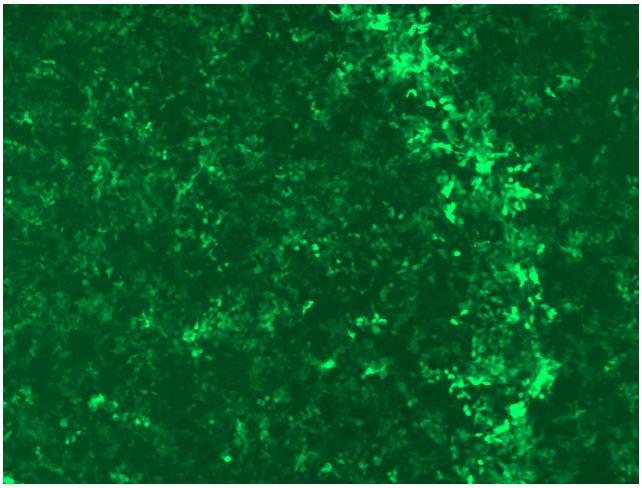
Performance Guaranteed:

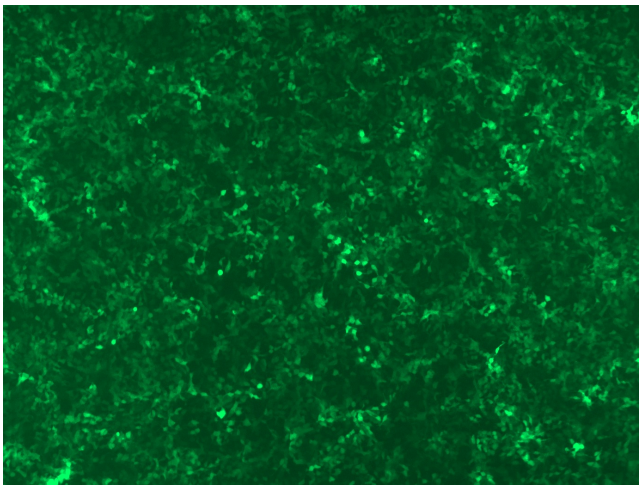
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

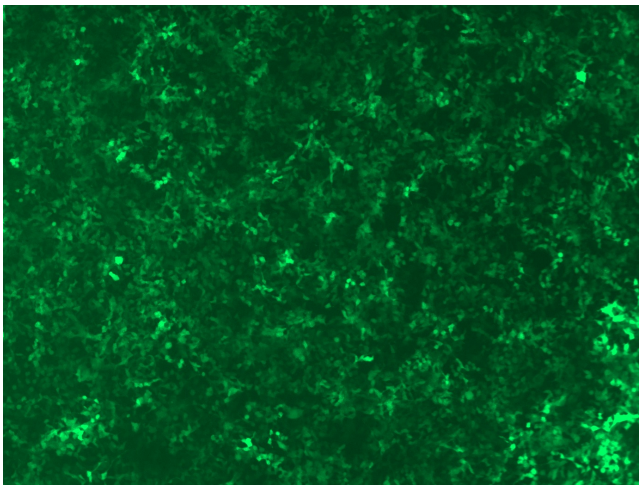
Product images:



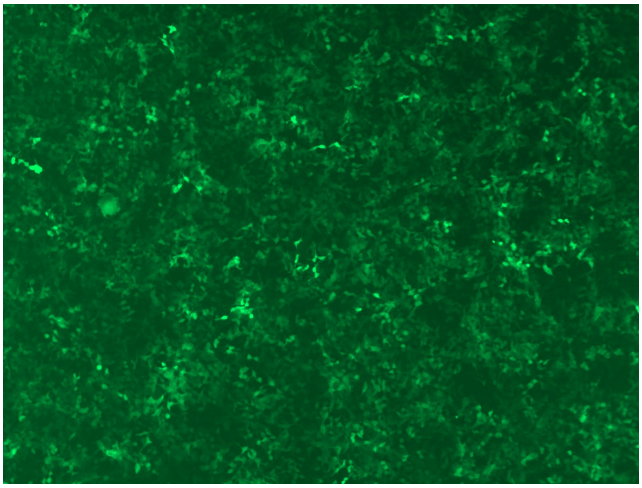
GFP signal was observed under microscope at 48 hours after transduction of TL310217A virus into HEK293 cells. TL310217A virus was prepared using lenti-shRNA TL310217A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL310217B virus into HEK293 cells. TL310217B virus was prepared using lenti-shRNA TL310217B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310217C] virus into HEK293 cells. [TL310217C] virus was prepared using lenti-shRNA [TL310217C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310217D] virus into HEK293 cells. [TL310217D] virus was prepared using lenti-shRNA [TL310217D] and [TR30037] packaging kit.