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Product datasheet for TL320374V

Glucocorticoid Receptor (NR3C1) Human shRNA Lentiviral Particle (Locus ID 2908)

Product data:

Product Type: shRNA Lentiviral Particles

Product Name: Glucocorticoid Receptor (NR3C1) Human shRNA Lentiviral Particle (Locus ID 2908)

Locus ID: 2908

Synonyms: GCCR; GCR; GCRST; GR; GRL

Vector: pGFP-C-shLenti (TR30023)

Format: Lentiviral particles

Components: NR3C1 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.

RefSeq: NM_000176, NM_001018074, NM_001018075, NM_001018076, NM_001018077, NM_001020825, NM_001024094, NM_001204258, NM_001204259, NM_001204260, NM_001204261, NM_001204262, NM_001204263, NM_001204264, NM_001204265, NM_001018074.1, NM_000176.1, NM_000176.2, NM_001018076.1, NM_001020825.1, NM_001024094.1, NM_001018075.1, NM_001018077.1, NM_001204264.1, NM_001204263.1, NM_001204262.1, NM_001204265.1, NM_001204261.1, NM_001204260.1, NM_001204259.1, NM_001204258.1, BC015610, BC015610.2, NM_001364182, NM_001364184, NR_157096, NM_001364180, NM_001364181, NM_001364183, NM_001364185, NM_001204265.2, NM_001204258.2, NM_001204261.2, NM_001204263.2, NM_001204259.2, NM_001204262.2, NM_001204260.2, NM_001024094.2, NM_001204264.2, NM_001020825.2, NM_001018076.2, NM_000176.3

UniProt ID: P04150

Summary: This gene encodes glucocorticoid receptor, which can function both as a transcription factor that binds to glucocorticoid response elements in the promoters of glucocorticoid responsive genes to activate their transcription, and as a regulator of other transcription factors. This receptor is typically found in the cytoplasm, but upon ligand binding, is transported into the nucleus. It is involved in inflammatory responses, cellular proliferation, and differentiation in target tissues. Mutations in this gene are associated with generalized glucocorticoid resistance. Alternative splicing of this gene results in transcript variants encoding either the same or different isoforms. Additional isoforms resulting from the use of alternate in-frame translation initiation sites have also been described, and shown to be functional, displaying diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175). [provided by RefSeq, Feb 2011]

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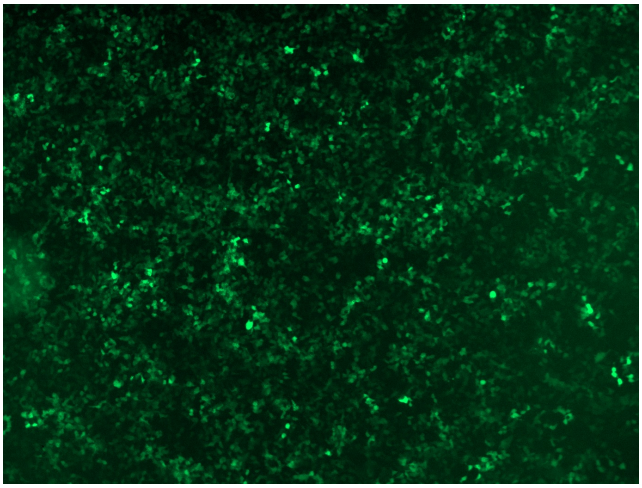
shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

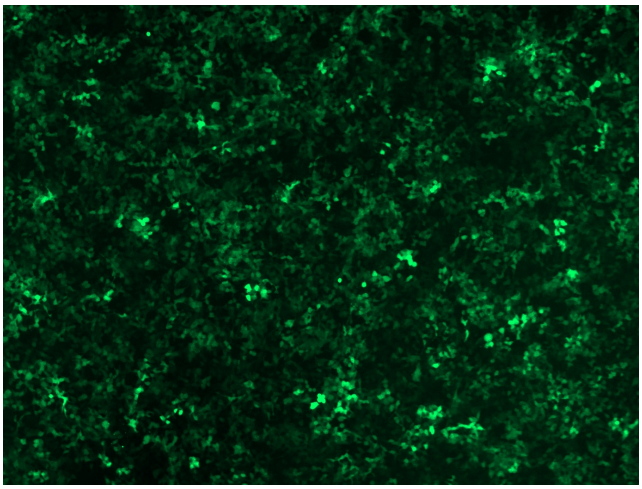
Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency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

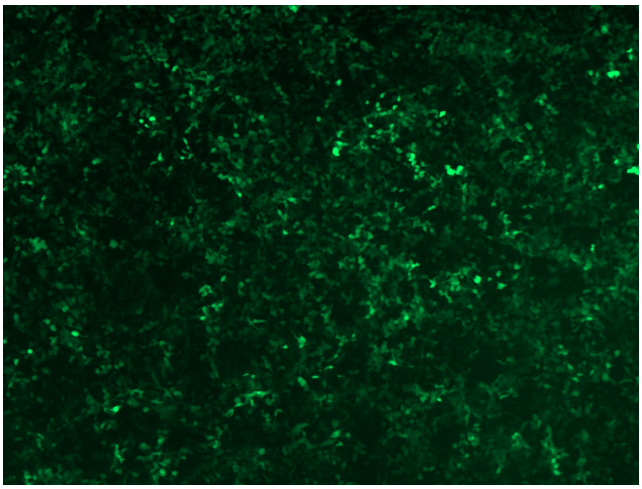
Product images:



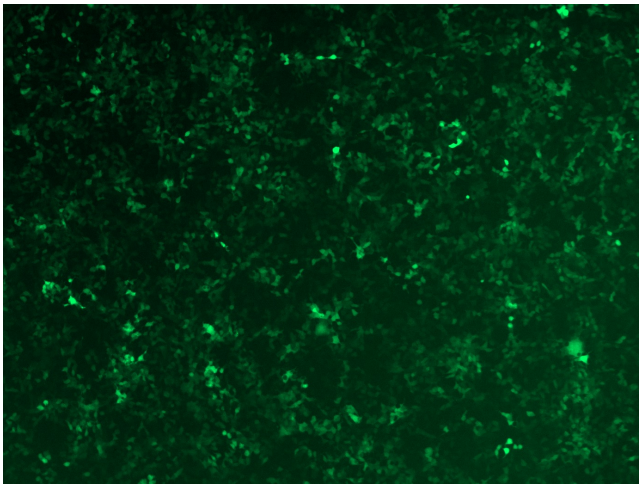
GFP signal was observed under microscope at 48 hours after transduction of TL320374A virus into HEK293 cells. TL320374A virus was prepared using lenti-shRNA TL320374A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL320374B virus into HEK293 cells. TL320374B virus was prepared using lenti-shRNA TL320374B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320374C] virus into HEK293 cells. [TL320374C] virus was prepared using lenti-shRNA [TL320374C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320374D] virus into HEK293 cells. [TL320374D] virus was prepared using lenti-shRNA [TL320374D] and [TR30037] packaging kit.