

Product datasheet for **TL315603**

PHGDH Human shRNA Plasmid Kit (Locus ID 26227)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PHGDH Human shRNA Plasmid Kit (Locus ID 26227)
Locus ID:	26227
Synonyms:	3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PHGDH - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 26227). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_006623 , NM_032692 , NM_006623.1 , NM_006623.2 , NM_006623.3 , BC011262 , BC011262.1 , BC000303 , BC001349 , BC023235 , BC032110
UniProt ID:	O43175
Summary:	This gene encodes the enzyme which is involved in the early steps of L-serine synthesis in animal cells. L-serine is required for D-serine and other amino acid synthesis. The enzyme requires NAD/NADH as a cofactor and forms homotetramers for activity. Mutations in this gene have been found in a family with congenital microcephaly, psychomotor retardation and other symptoms. Multiple alternatively spliced transcript variants have been found, however the full-length nature of most are not known. [provided by RefSeq, Aug 2011]
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 .

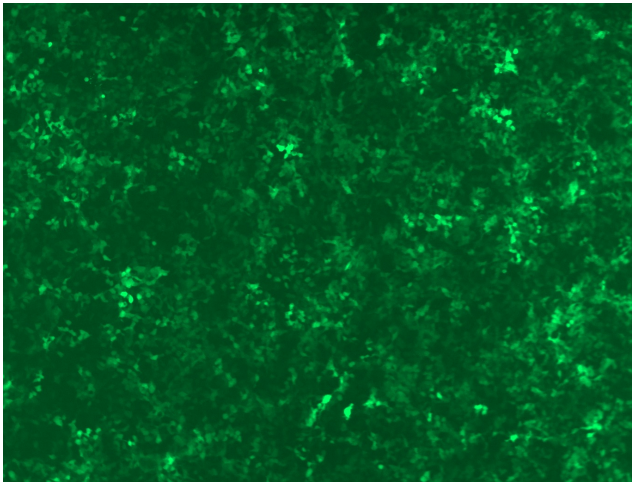


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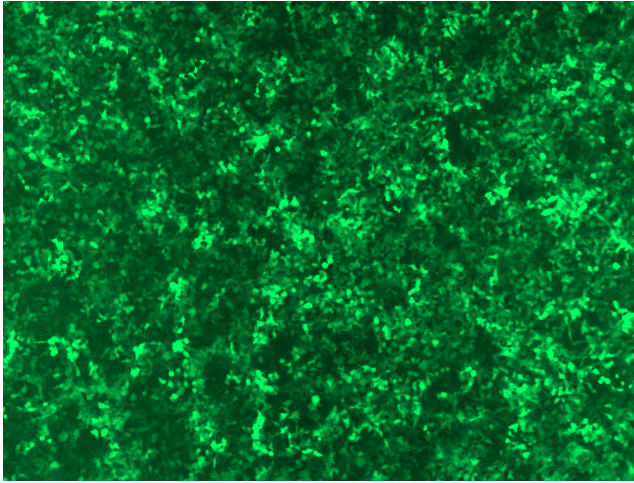
**Performance
Guaranteed:**

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.

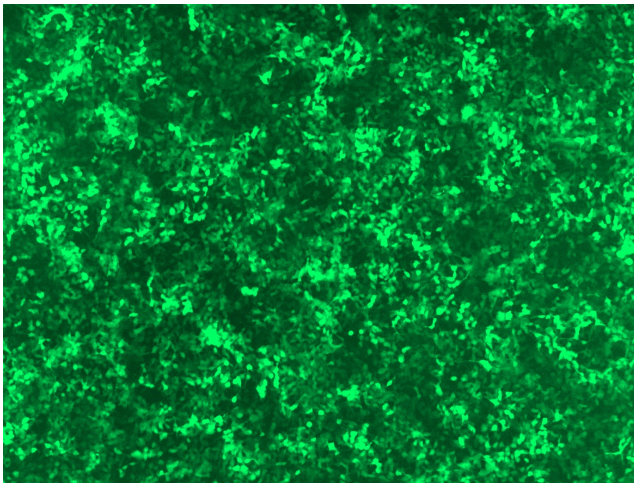
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

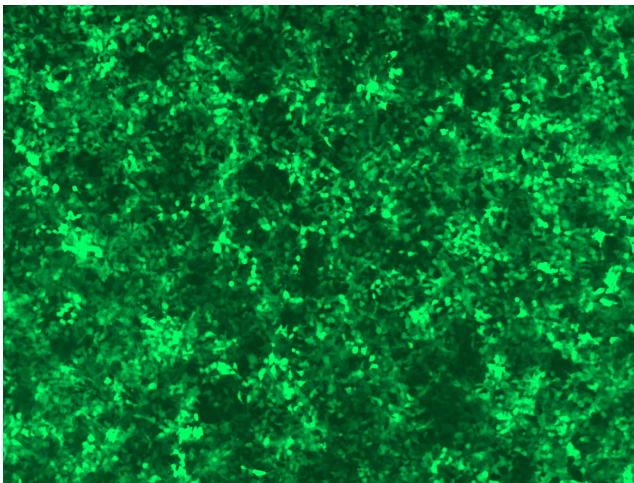
GFP signal was observed under microscope at 48 hours after transduction of TL315603A virus into HEK293 cells. TL315603A virus was prepared using lenti-shRNA TL315603A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL315603B virus into HEK293 cells. TL315603B virus was prepared using lenti-shRNA TL315603B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL315603C] virus into HEK293 cells. [TL315603C] virus was prepared using lenti-shRNA [TL315603C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL315603D] virus into HEK293 cells. [TL315603D] virus was prepared using lenti-shRNA [TL315603D] and [TR30037] packaging kit.