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Product datasheet for TR307387

GLYR1 Human shRNA Plasmid Kit (Locus ID 84656)

Product data:

Product Type:	shRNA Plasmids
Product Name:	GLYR1 Human shRNA Plasmid Kit (Locus ID 84656)
Locus ID:	84656
Synonyms:	BM045; HIBDL; hNDF; N-PAC; NP60
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	GLYR1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 84656). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001308096, NM_001324096, NM_001324097, NM_001324098, NM_032569, NR_136695, NR_136696, NR_136697, NR_136698, NR_136699, NR_136700, NM_032569.1, NM_032569.2, NM_032569.3, BC032855, BC032855.1, BC003693, BC022809, BC047223, BC048291, BC063039, BC064940, BC071698, BC073868, NM_032569.4
UniProt ID:	Q49A26
Summary:	Putative oxidoreductase that is recruited on chromatin and promotes KDM1B demethylase activity (PubMed:23260659). Recognizes and binds trimethylated 'Lys-36' of histone H3 (H3K36me3) (PubMed:20850016). Regulates p38 MAP kinase activity by mediating stress activation of p38alpha/MAPK14 and specifically regulating MAPK14 signaling (PubMed:16352664). Indirectly promotes phosphorylation of MAPK14 and activation of ATF2 (PubMed:16352664). The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6 (PubMed:16352664).[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).