

## Product datasheet for **TG320453**

### PEPD Human shRNA Plasmid Kit (Locus ID 5184)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PEPD Human shRNA Plasmid Kit (Locus ID 5184)
Locus ID:	5184
Synonyms:	PROLIDASE
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PEPD - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 5184). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">BC028295</a> , <a href="#">NM_000285</a> , <a href="#">NM_001166056</a> , <a href="#">NM_001166057</a> , <a href="#">NM_032652</a> , <a href="#">NM_000285.1</a> , <a href="#">NM_000285.2</a> , <a href="#">NM_000285.3</a> , <a href="#">NM_001166057.1</a> , <a href="#">NM_001166056.1</a> , <a href="#">BC028295.1</a> , <a href="#">BC015027</a> , <a href="#">BC015027.1</a> , <a href="#">BC004305</a> , <a href="#">NM_001166056.2</a> , <a href="#">NM_001166057.2</a> , <a href="#">NM_000285.4</a>
UniProt ID:	<a href="#">P12955</a>
Summary:	This gene encodes a member of the peptidase family. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline residues. The enzyme serves an important role in the recycling of proline, and may be rate limiting for the production of collagen. Mutations in this gene result in prolidase deficiency, which is characterized by the excretion of large amount of di- and tri-peptides containing proline. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](mailto: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).