

Product datasheet for **TG311828**

Cytokeratin 8 (KRT8) Human shRNA Plasmid Kit (Locus ID 3856)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cytokeratin 8 (KRT8) Human shRNA Plasmid Kit (Locus ID 3856)
Locus ID:	3856
Synonyms:	CARD2; CK-8; CK8; CYK8; K2C8; K8; KO
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	KRT8 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 3856). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC008200 , NM_001256282 , NM_001256293 , NM_002273 , NR_045962 , NM_002273.1 , NM_002273.2 , NM_002273.3 , NM_001256293.1 , NM_001256282.1 , BC008200.1 , BC063513 , BC063513.1 , BC000654 , BC011373 , BC073760 , BC075839 , BM854215 , NM_001256282.2 , NM_002273.4 , NM_001256293.2
UniProt ID:	P05787
Summary:	This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]
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).