

Product datasheet for **TF304020**

Hsp60 (HSPD1) Human shRNA Plasmid Kit (Locus ID 3329)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Hsp60 (HSPD1) Human shRNA Plasmid Kit (Locus ID 3329)
Locus ID:	3329
Synonyms:	CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	HSPD1 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 3329). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	NM_002156 , NM_199440 , NM_199440.1 , NM_002156.1 , NM_002156.2 , NM_002156.3 , NM_002156.4 , BC002676 , BC002676.2 , BC003030 , BC047350 , BC067082 , BC073746 , NM_002156.5
UniProt ID:	P10809
Summary:	This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Several pseudogenes have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq, Jun 2010]
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).