

## Product datasheet for **TR305142**

### CYB5R2 Human shRNA Plasmid Kit (Locus ID 51700)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CYB5R2 Human shRNA Plasmid Kit (Locus ID 51700)
Locus ID:	51700
Synonyms:	B5R.2; cytochrome b5 reductase 2; cytochrome b5 reductase b5R.2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CYB5R2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51700). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001001336</a> , <a href="#">NM_001302826</a> , <a href="#">NM_001302827</a> , <a href="#">NM_016229</a> , <a href="#">NR_126508</a> , <a href="#">NM_016229.1</a> , <a href="#">NM_016229.2</a> , <a href="#">NM_016229.3</a> , <a href="#">NM_016229.4</a> , <a href="#">NM_001302827.1</a> , <a href="#">NM_001302826.1</a> , <a href="#">NM_001001336.1</a> , <a href="#">BC001346</a> , <a href="#">BM693762</a> , <a href="#">BM968347</a>
UniProt ID:	<a href="#">Q6BCY4</a>
Summary:	The protein encoded by this gene belongs to the flavoprotein pyridine nucleotide cytochrome reductase family of proteins. Cytochrome b-type NAD(P)H oxidoreductases are implicated in many processes including cholesterol biosynthesis, fatty acid desaturation and elongation, and respiratory burst in neutrophils and macrophages. Cytochrome b5 reductases have soluble and membrane-bound forms that are the product of alternative splicing. In animal cells, the membrane-bound form binds to the endoplasmic reticulum, where it is a member of a fatty acid desaturation complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
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).