

## Product datasheet for **TR312387**

### Heme oxygenase 2 (HMOX2) Human shRNA Plasmid Kit (Locus ID 3163)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Heme oxygenase 2 (HMOX2) Human shRNA Plasmid Kit (Locus ID 3163)
Locus ID:	3163
Synonyms:	HO-2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	HMOX2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 3163). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001127204</a> , <a href="#">NM_001127205</a> , <a href="#">NM_001127206</a> , <a href="#">NM_001286267</a> , <a href="#">NM_001286268</a> , <a href="#">NM_001286269</a> , <a href="#">NM_001286270</a> , <a href="#">NM_001286271</a> , <a href="#">NM_002134</a> , <a href="#">NM_002134.1</a> , <a href="#">NM_002134.2</a> , <a href="#">NM_002134.3</a> , <a href="#">NM_001127204.1</a> , <a href="#">NM_001127205.1</a> , <a href="#">NM_001127206.1</a> , <a href="#">NM_001127206.2</a> , <a href="#">NM_001286271.1</a> , <a href="#">NM_001286268.1</a> , <a href="#">NM_001286269.1</a> , <a href="#">NM_001286270.1</a> , <a href="#">NM_001286267.1</a> , <a href="#">BC002396</a> , <a href="#">BC002396.2</a> , <a href="#">BM905872</a> , <a href="#">NM_002134.4</a>
UniProt ID:	<a href="#">P30519</a>
Summary:	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]
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).