

Product datasheet for **TG320458**

PPAR alpha (PPARA) Human shRNA Plasmid Kit (Locus ID 5465)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PPAR alpha (PPARA) Human shRNA Plasmid Kit (Locus ID 5465)
Locus ID:	5465
Synonyms:	hPPAR; NR1C1; PPAR; PPAR-alpha; PPARalpha
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PPARA - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 5465). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC000052 , NM_001001928 , NM_001001929 , NM_001001930 , NM_005036 , NM_032644 , NM_005036.1 , NM_005036.2 , NM_005036.3 , NM_005036.4 , NM_001001928.1 , NM_001001928.2 , NM_001001929.2 , NM_001001930.2 , NM_032644.3 , BC004162 , BC009069 , BC071932 , NM_001362872 , NM_001362873 , NM_005036.6 , NM_001001928.3
UniProt ID:	Q07869
Summary:	Peroxisome proliferators include hypolipidemic drugs, herbicides, leukotriene antagonists, and plasticizers; this term arises because they induce an increase in the size and number of peroxisomes. Peroxisomes are subcellular organelles found in plants and animals that contain enzymes for respiration and for cholesterol and lipid metabolism. The action of peroxisome proliferators is thought to be mediated via specific receptors, called PPARs, which belong to the steroid hormone receptor superfamily. PPARs affect the expression of target genes involved in cell proliferation, cell differentiation and in immune and inflammation responses. Three closely related subtypes (alpha, beta/delta, and gamma) have been identified. This gene encodes the subtype PPAR-alpha, which is a nuclear transcription factor. Multiple alternatively spliced transcript variants have been described for this gene, although the full-length nature of only two has been determined. [provided by RefSeq, Jul 2008]



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- 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](#).
- 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).