

Product datasheet for TR307914

FAM173B Human shRNA Plasmid Kit (Locus ID 134145)

Product data:

Product Type: shRNA Plasmids

134145 Locus ID:

Synonyms: FAM173B; hFAM173B; JS-2

pRS (TR20003) Vector:

E. coli Selection: **Ampicillin**

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

FAM173B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

134145). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM_001258388, NM_001258389, NM_199133, NR_047668, NR_047669, NR_047670, NM_199133.1, RefSeq:

NM_199133.2, NM_199133.3, NM_001258388.1, NM_001258389.1, BC063406, BC063406.1, BC048801

UniProt ID: Q6P4H8

Mitochondrial protein-lysine N-methyltransferase that trimethylates ATP synthase subunit C, **Summary:**

ATP5MC1 and ATP5MC2. Trimethylation is required for proper incorporation of the C subunit into

the ATP synthase complex and mitochondrial respiration (PubMed:29444090,

PubMed:30530489). Promotes chronic pain (PubMed:29444090). Involved in persistent

inflammatory and neuropathic pain: methyltransferase activity in the mitochondria of sensory neurons promotes chronic pain via a pathway that depends on the production of reactive oxygen species (ROS) and on the engagement of spinal cord microglia (PubMed:29444090).

[UniProtKB/Swiss-Prot Function]

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.



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn



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).