

Product datasheet for TL303171

OriGene Technologies, Inc.

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MRPL30 Human shRNA Plasmid Kit (Locus ID 51263)

Product data:

Product Type: shRNA Plasmids

Product Name: MRPL30 Human shRNA Plasmid Kit (Locus ID 51263)

Locus ID: 51263

Synonyms: FLJ44438; MGC3314; MGC24095; mitochondrial ribosomal protein L30; MRP-L28; MRPL28;

OTTHUMP00000161222; RPML28; RPML28, MGC3314, MRP-L28, FLJ44438, MGC24095

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: MRPL30 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID =

51263). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 016503, NM 145212, NM 145213, NR 028356, NM 145212.1, NM 145212.2,

NM 145212.3, NM 145213.1, NM 145213.2, BC022391, BC022391.1, BC000217, BC013822,

NM 145212.4

UniProt ID: Q8TCC3

Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in

protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that

the latter contain a 5S rRNA. Among different species, the proteins comprising the

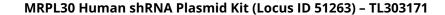
mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this

gene are found on chromosomes 6p and 12p. Read-through transcription also exists

between this gene and the neighboring upstream lipoyltransferase 1 (LIPT1) gene. [provided

by RefSeq, Mar 2011]







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).