

Product datasheet for TR303444

OriGene Technologies, Inc.

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LRTOMT Human shRNA Plasmid Kit (Locus ID 220074)

Product data:

Product Type: shRNA Plasmids

Product Name: LRTOMT Human shRNA Plasmid Kit (Locus ID 220074)

Locus ID: 220074

Synonyms: CFAP111; DFNB63; LRRC51

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

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Format: Retroviral plasmids

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

220074). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001145307, NM 001145308, NM 001145309, NM 001145310, NM 001205138,

NM 001271471, NM 145309, NR 026886, NR 134858, NM 145309.1, NM 145309.2, NM 145309.3, NM 145309.4, NM 145309.5, NM 001145307.1, NM 001145307.2,

NM 001145307.3, NM 001145307.4, NM 001145308.1, NM 001145308.2, NM 001145308.3, NM 001145308.4, NM 001145309.1, NM 001145309.2, NM 001145309.3, NM 001145310.1, NM 001145310.2, NM 001145310.3, NM 001271471.1, NM 001271471.2, NM 001205138.1,

NM 001205138.2, NM 001205138.3, BC012855, BC012855.1, BC035223, NR 073187, NR 073188, NM 001145307.5, NM 001271471.3, NM 001145310.4, NM 001145308.5,

NM 145309.6, NM 001145309.4, NM 001205138.4

UniProt ID: 096E66

Summary: This locus represents naturally occurring readthrough transcription between the neighboring

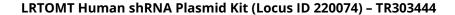
LRRC51 (leucine-rich repeat containing 51) and TOMT (transmembrane O-methyltransferase) genes on chromosome 11. The readthrough transcript encodes a fusion protein that shares sequence identity with each individual gene product. Multiple reports implicate mutations in

this gene in nonsyndromic deafness.[provided by RefSeq, Feb 2021]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







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).