

Product datasheet for TL303803

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

OriGene Technologies, Inc.

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

KCNQ5 Human shRNA Plasmid Kit (Locus ID 56479)

Product data:

Product Type: shRNA Plasmids

Product Name: KCNQ5 Human shRNA Plasmid Kit (Locus ID 56479)

Locus ID: 56479

Synonyms: Kv7.5; MRD46

Vector: pGFP-C-shLenti (TR30023)

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

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: KCNQ5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 56479).

5µg purified plasmid DNA per construct

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

RefSeq: NM 001160130, NM 001160132, NM 001160133, NM 001160134, NM 019842, NM 019842.1,

NM 019842.2, NM 019842.3, NM 001160134.1, NM 001160132.1, NM 001160133.1, NM 001160130.1, BC117359, BC050689, BC143554, BC143555, NM 001160133.2,

NM 001160134.2, NM 001160132.2, NM 001160130.2, NM 019842.4

UniProt ID: O9NR82

Summary: This gene is a member of the KCNQ potassium channel gene family that is differentially

expressed in subregions of the brain and in skeletal muscle. The protein encoded by this gene yields currents that activate slowly with depolarization and can form heteromeric channels with the protein encoded by the KCNQ3 gene. Currents expressed from this protein

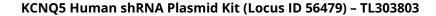
have voltage dependences and inhibitor sensitivities in common with M-currents. They are also inhibited by M1 muscarinic receptor activation. Multiple transcript variants encoding

different isoforms have been found for this gene. [provided by RefSeq, May 2009]

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 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).