

Product datasheet for TR312714

OriGene Technologies, Inc.

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GLCNE (GNE) Human shRNA Plasmid Kit (Locus ID 10020)

Product data:

Product Type: shRNA Plasmids

Product Name: GLCNE (GNE) Human shRNA Plasmid Kit (Locus ID 10020)

Locus ID: 10020

Synonyms: DMRV; GLCNE; IBM2; NM; Uae1

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

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

10020). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001128227, NM 001190383, NM 001190384, NM 001190388, NM 005476, NM 005476.1,

NM 005476.2, NM 005476.3, NM 005476.4, NM 005476.5, NM 001128227.1,

NM 001128227.2, NM 001190384.1, NM 001190383.1, NM 001190388.1, BC121179,

BM996750, BM999446, NM 005476.7, NM 001190383.3, NM 001128227.3, NM 001190384.3

UniProt ID: Q9Y223

Summary: The protein encoded by this gene is a bifunctional enzyme that initiates and regulates the

biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a rate-limiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. Differential sialylation of cell surface molecules is also implicated in the tumorigenicity and metastatic behavior of malignant cells. Mutations in this gene are

associated with sialuria, autosomal recessive inclusion body myopathy, and Nonaka myopathy. Alternative splicing of this gene results in transcript variants encoding different

isoforms. [provided by RefSeq, Jul 2008]

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).