

Product datasheet for RC222626L3

OriGene Technologies, Inc.

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GLCNE (GNE) (NM_005476) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GLCNE (GNE) (NM_005476) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: GLCNE

Synonyms: DMRV; GLCNE; IBM2; NM; Uae1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222626).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_005476

ORF Size: 2166 bp





GLCNE (GNE) (NM_005476) Human Tagged Lenti ORF Clone - RC222626L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 005476.3</u>

 RefSeq Size:
 5329 bp

 RefSeq ORF:
 2169 bp

 Locus ID:
 10020

 UniProt ID:
 Q9Y223

 Cytogenetics:
 9p13.3

Domains: ROK, Epimerase_2
Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways

MW: 79.3 kDa

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

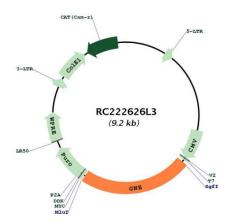
biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a ratelimiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. 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

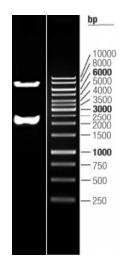
isoforms. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC222626L3



Double digestion of RC222626L3 using Sgfl and Mlul