

Product datasheet for RC201232L4V

OriGene Technologies, Inc.

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Glucose 6 phosphate isomerase (GPI) (NM_000175) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Glucose 6 phosphate isomerase (GPI) (NM_000175) Human Tagged ORF Clone Lentiviral

Particle

Symbol: Glucose 6 phosphate isomerase

Synonyms: AMF; GNPI; NLK; PGI; PHI; SA-36; SA36

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_000175 **ORF Size:** 1674 bp

ORF Nucleotide

Sequence:

The ORF insert of this clone is exactly the same as(RC201232).

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.

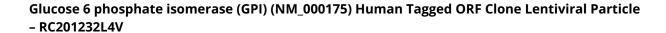
RefSeq: <u>NM 000175.2</u>

RefSeq Size: 4212 bp
RefSeq ORF: 1677 bp
Locus ID: 2821
UniProt ID: P06744

Cytogenetics: 19q13.11

Domains: PGI







Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic

pathways, Pentose phosphate pathway, Starch and sucrose metabolism

MW: 63.1 kDa

Gene Summary: This gene encodes a member of the glucose phosphate isomerase protein family. The

encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In the cytoplasm, the gene product functions as a glycolytic enzyme (glucose-6-phosphate isomerase) that interconverts glucose-6-phosphate and fructose-6-phosphate. Extracellularly, the encoded protein (also referred to as neuroleukin) functions as a neurotrophic factor that promotes survival of skeletal motor neurons and sensory neurons, and as a lymphokine that induces immunoglobulin secretion. The encoded protein is also referred to as autocrine motility factor based on an additional function as a tumor-secreted cytokine and angiogenic factor. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment. Alternative splicing

results in multiple transcript variants. [provided by RefSeq, Aug 2016]