

## Product datasheet for RC220625L3V

## OriGene Technologies, Inc.

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## Glucose 6 Phosphate Dehydrogenase (G6PD) (NM\_000402) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** Glucose 6 Phosphate Dehydrogenase (G6PD) (NM\_000402) Human Tagged ORF Clone

Lentiviral Particle

Symbol: Glucose 6 Phosphate Dehydrogenase

**Synonyms:** G6PD1

Mammalian Cell Puro

Selection:

Puromycin

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

Tag: Myc-DDK
ACCN: NM 000402

ORF Size: 1635 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC220625).

OTI Disclaimer:

Sequence:

**Domains:** 

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 000402.3</u>, <u>NP 000393.4</u>

G6PD

 RefSeq Size:
 2395 bp

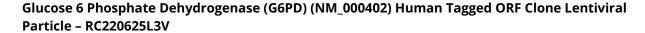
 RefSeq ORF:
 1638 bp

 Locus ID:
 2539

 UniProt ID:
 P11413

 Cytogenetics:
 Xq28







**Protein Families:** Druggable Genome

**Protein Pathways:** Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

MW: 62.3 kDa

**Gene Summary:** This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme

encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key

electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly

produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]