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Product datasheet for RC220625L3V

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 Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_000402
ORF Size:	1635 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC220625).`
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:	NM_000402.3, NP_000393.4
RefSeq Size:	2395 bp
RefSeq ORF:	1638 bp
Locus ID:	2539
UniProt ID:	P11413
Cytogenetics:	Xq28
Domains:	G6PD

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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]