

## Product datasheet for **RC201729L2V**

### PGD (NM\_002631) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	PGD (NM_002631) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PGD
Synonyms:	6PGD
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002631
ORF Size:	1449 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201729).
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. <a href="#">More info</a>
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:	<a href="#">NM_002631.2</a>
RefSeq Size:	1937 bp
RefSeq ORF:	1452 bp
Locus ID:	5226
UniProt ID:	<a href="#">P52209</a>
Cytogenetics:	1p36.22
Domains:	6PGD, NAD_binding_2
Protein Pathways:	Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway



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**MW:** 53.1 kDa

**Gene Summary:** 6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]