

Product datasheet for **KN201232LP**

Glucose 6 phosphate isomerase (GPI) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	Glucose 6 phosphate isomerase
Locus ID:	2821
Components:	<p>KN201232G1, Glucose 6 phosphate isomerase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN201232G2, Glucose 6 phosphate isomerase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN201232LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	<u>NM_000175</u> , <u>NM_001184722</u> , <u>NM_001289789</u> , <u>NM_001289790</u> , <u>NM_001329909</u> , <u>NM_001329910</u> , <u>NM_001329911</u>
UniProt ID:	<u>P06744</u>
Synonyms:	AMF; GNPI; NLK; PGI; PHI; SA-36; SA36
Summary:	<p>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]</p>



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Product images:

