

## Product datasheet for **KN220972LP**

### Phospholipase A2 (PLA2G4A) 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:	Phospholipase A2
Locus ID:	5321
Components:	<b>KN220972G1</b> , Phospholipase A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN220972G2</b> , Phospholipase A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN220972LPD</b> , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	<a href="#">NM_001311193</a> , <a href="#">NM_024420</a>
UniProt ID:	<a href="#">P47712</a>
Synonyms:	cPLA2; cPLA2-alpha; PLA2G4
Summary:	This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]



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## Product images:

