

Product datasheet for KN209446BN

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

LYPLA3 (PLA2G15) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo
Symbol: LYPLA3
Locus ID: 23659

Components: KN209446G1, LYPLA3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN209446G2, LYPLA3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN209446BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, 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: <u>NM 012320</u>, <u>NM 001363551</u>

UniProt ID: Q8NCC3

Synonyms: ACS; GXVPLA2; LLPL; LPLA2; LYPLA3

Summary: Lysophospholipases are enzymes that act on biological membranes to regulate the

multifunctional lysophospholipids. The protein encoded by this gene hydrolyzes

lysophosphatidylcholine to glycerophosphorylcholine and a free fatty acid. This enzyme is present in the plasma and thought to be associated with high-density lipoprotein. A later paper contradicts the function of this gene. It demonstrates that this gene encodes a lysosomal enzyme instead of a lysophospholipase and has both calcium-independent

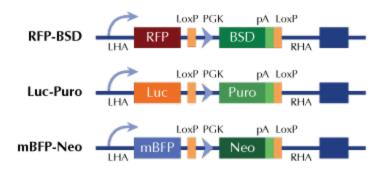
phospholipase A2 and transacylase activities. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter