Supplementary Figure 1

a

5% VSV-G (1 μg)

GFP

5% LCMV (1 μg)

GFP

b

	CON	shLKB1						
	5	1	5	20	1	5	20	% of pMD2G vector

LKB1

β-actin

5	2	μl of virus

c

Loop

Sense strand   Antisense strand

CCGG(N)$_{21}$CTCGAG(N)$_{21}$TTTTTG
(N)$_{21}$GAGCTC(N)$_{21}$AAAAACTTAA

hU6

PGK

pLKO.1-eGFP

eGFP

5'   Sense strand
3'-UU   Loop
Antisense strand

d

pMD2-G   pCMV8.74   pLKO1-eGFP

HEK293T packaging   10 cm^2 dish   Harvest viral supernatant   Filter and centrifuge @28,000 *rpm* on a sucrose gradient   Concentrated virus (100X)

Crude virus Filtered only

e

Concentrated				Crude			
CON	5	2	1	CON	100	50	25

LKB1

β-actin
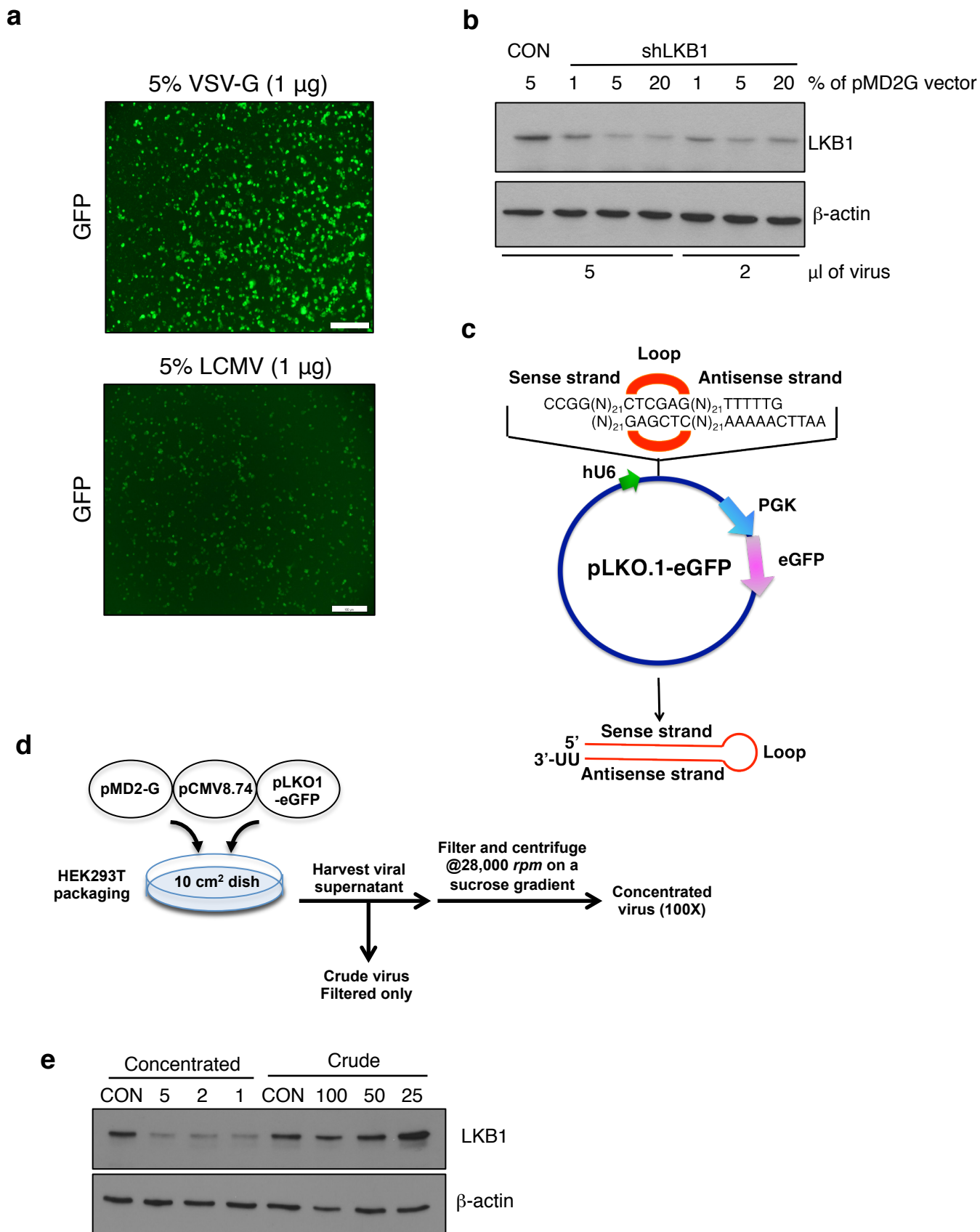
Supplementary Figure Legend

Supplementary Figure 1. a. Fluorescence images with the two different GP coding vectors packaged lentivirus. Scale bar = 100 μm. **b.** Western blot showing the best ratio of pMD2G vector to use, by measuring LKB1 protein level. Beta actin is shown as loading control. Human islets were dispersed, infected with GFP$^+$ lentiviral encoding for sh-LKB1. **c.** Schematic of the pLKO1-eGFP plasmid used to generate GFP$^+$ lentivirus encoding shRNA. **d.** Flow chart of lentivirus production and concentration for screen purposes showing distinction between crude and concentrated virus preps. **e.** Representative western blot showing concentrated and crude virus infection efficiency by measuring LKB1 level. Actin in shown as loading and toxicity control.