

Supplemental Table 1. The contents of phospholipids in MFGM-PL. The contents of phospholipids in MFGM-PL were determined using ultra-performance liquid chromatography and tandem mass spectrometry. Values were expressed as mean \pm SEM, n=6. PC: Phosphatidylcholine; PE: Phosphatidylethanolamine; PA: Phosphatidic acid; PI: Phosphatidylinositol; PG: Phosphatidylglycerol; SM: Sphingomyelin; LPC: Lyso-Phosphatidylcholine; LPE: Lyso-Phosphatidylethanolamine.

Supplemental Table 2. Maternal body weight and serum biomarkers. Values were expressed as mean \pm SEM, n=6. The statistical analysis was performed using one-way ANOVA and Tukey's multiple-comparison test by SPSS software (version 20.0, IBM Inc., Chicago, IL, USA). Different letters indicate significant differences ($P < 0.05$). TC, total cholesterol; TG total triglyceride; LDL-C, low-density lipoprotein cholesterol; HDL-C, high-density lipoprotein cholesterol; LPS, lipopolysaccharide; TNF- α , tumor necrosis factor-alpha; IL-1 β , interleukin-1 β ; IL-6, interleukin-6.

Supplementary Figure 1. Maternal body weight after 8 weeks of high-fat diet before mating. Values were expressed as mean \pm SEM, n=6. The statistical analysis was performed using one-way ANOVA and Tukey's multiple-comparison test by SPSS software (version 20.0, IBM Inc., Chicago, IL, USA). Different letters indicate significant differences ($P < 0.05$).

Supplemental Table 1

Phospholipid	Content (nmol/mg MFGM-PL)
PC	22.79±0.40
PE	17.40±0.27
PA	20.46±4.04
PI	1.76±0.05
PG	0.28±0.01
SM	5.71±0.15
LPC	0.37±0.01
LPE	0.57±0.01

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Supplemental Table 2

	CON	CON+MFGM-PL	HFD	HFD+MFGM-PL
Body weight (g)	341.84 ± 10.24 ^b	345.17 ± 10.64 ^b	386.12 ± 14.44 ^a	346.76 ± 8.77 ^b
Serum insulin (ng/mL)	1.06 ± 0.05 ^c	1.00 ± 0.06 ^c	1.68 ± 0.03 ^a	1.39 ± 0.02 ^b
Serum TC (mg/dL)	1.65 ± 0.05 ^c	1.72 ± 0.12 ^c	3.65 ± 0.12 ^a	2.05 ± 0.09 ^b
Serum TG (mg/dL)	0.59 ± 0.06 ^b	0.54 ± 0.05 ^b	1.91 ± 0.36 ^a	0.62 ± 0.04 ^b
Serum LDL-C (mg/dL)	0.21 ± 0.01 ^b	0.24 ± 0.02 ^b	0.50 ± 0.12 ^a	0.28 ± 0.03 ^b
Serum HDL-C (mg/dL)	1.28 ± 0.06 ^a	1.22 ± 0.06 ^a	0.82 ± 0.09 ^b	1.25 ± 0.12 ^a
Serum LPS (EU/L)	334.24 ± 14.87 ^b	349.39 ± 16.20 ^b	541.31 ± 16.63 ^a	353.43 ± 7.64 ^b
Serum TNF-α (pg/mL)	74.43 ± 1.49 ^b	73.08 ± 5.91 ^b	90.91 ± 2.32 ^a	75.04 ± 3.54 ^b
Serum IL-1β (pg/mL)	23.55 ± 1.61 ^b	23.10 ± 1.09 ^b	41.19 ± 1.62 ^a	24.14 ± 0.77 ^b
Serum IL-6 (pg/mL)	83.36 ± 1.53 ^b	84.68 ± 3.26 ^b	106.98 ± 2.24 ^a	86.23 ± 3.76 ^b

Supplementary Figure 1

