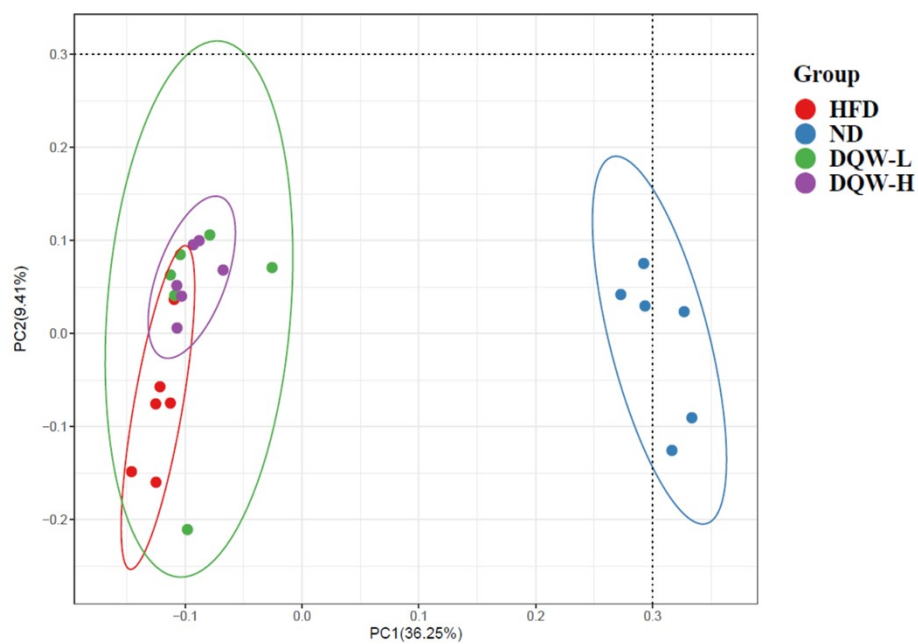


Supplementary material



Supplementary Figure 1. The effect of peptide DQW on PCA score plot of gut microbiota in NAFLD mice.

Supplementary Table 1. The detailed diet ingredients of the mice diet.

Ingredient	Normal diet (gm%)	High-fat diet (gm%)
Casein	200	200
L-Cystine	3	3
Corn Starch	351	0
Maltodextrin	35	125
Sucrose	350	68.8
Cellulose	50	50
Soybean oil	25	25
Lard	20	245
Mineral Mix	10	10
Dicalcium phosphate	13	13
Calcium carbonate	5.5	5.5
Potassium citrate	16.5	16.5
Vitamin Mix	10	10
Choline bitartrate	2	2
Macronutrients:		
Protein (kcal%)	20	20
Carbohydrate (kcal%)	70	20
Fat (kcal%)	10	60
Total (kcal/g)	3.85	5.24

Supplementary Table 2. The sequences of the primers in this study.

Gene	gene ID	Sequences of primers (5' - 3')	Size, bp
PPAR α	19013	F: AGGCTGTAAGGGCTTCTTTC	100
		R: GCATTTGTTCCGGTTCTTCTTC	
IRS1	16367	F: AATAGCCGTGGTGATTACAT	178
		R: CAGAAGCAGAAGCAGAGG	
PI3K	18708	F: AAGGAGCTGGTGCTACATTATC	98
		R: CGCCTCTGTTGTGCATATACT	
AKT	11651	F: ACGACGTAGCCATTGTGAAG	120
		R: GCCGTTCCCTTGTAGCCAATA	
GSK3 β	56637	F: GAGGAGAGCCCAATGTTTCATA	107
		R: GCCTGCAGACCATACATCTATAC	
GLUT4	20528	F: GTTTCTCCAACCTGGACCTGTAA	96
		R: GGACGGCAAATAGAAGGAAGA	
β -actin	11461	F: GGCTGTATTCCCCTCCATCG	154
		R: CCAGTTGGTAACAATGCCATGT	