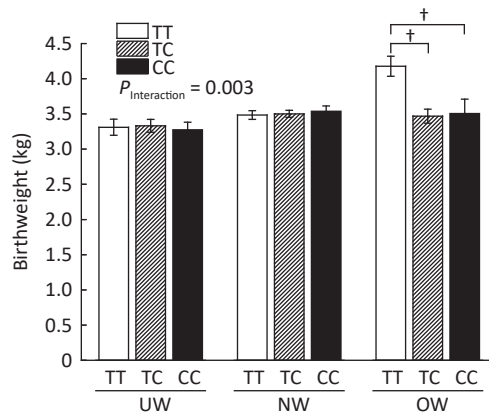


**Supplementary Figure S1.** Correlations between dietary fatty acids intake and fatty acids content of breast milk. LA, Linoleic acid; GLA,  $\gamma$ - Linoleic acid; DGLA, Dihomo- $\gamma$ -linolenic acid; AA, Arachidonic acid; DTA, Docosatetraenoic acid; ALA,  $\alpha$ -linolenic acid; EPA, Eicosapentaenoic acid; DHA, Docosahexenoic acid. \* $P < 0.05$ .



**Supplementary Figure S2.** Infant birthweight according to BMI and ADIPOQ SNP rs1063538 genotype adjusted by age. BMI, Body mass index; UW, Underweight; NW, Normal weight; OW, Overweight. † $P < 0.001$  between OW group T/T and TC/CC for birthweight (4.18 ± 0.14 vs. 3.47 ± 0.10; 4.18 ± 0.14 vs. 3.51 ± 0.20).

**Supplementary Table S1.** Relationship between the selected SNPs and the concentrations of PUFAs in breast milk (g/100 g, mean  $\pm$  SD)

	SNP	LA	GLA <sup>a</sup>	DGLA <sup>a</sup>	AA	DTA	ALA	EPA <sup>a</sup>	DHA <sup>a</sup>
rs1501299	G/G	0.37 $\pm$ 0.20	0.19 $\pm$ 0.06	0.22 $\pm$ 0.06	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.15 $\pm$ 0.09	0.09 $\pm$ 0.03	0.22 $\pm$ 0.08
	G/T	0.37 $\pm$ 0.17	0.20 $\pm$ 0.06	0.23 $\pm$ 0.07	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.14 $\pm$ 0.07	0.09 $\pm$ 0.03	0.22 $\pm$ 0.06
	T/T	0.38 $\pm$ 0.16	0.20 $\pm$ 0.05	0.23 $\pm$ 0.06	0.09 $\pm$ 0.03	0.02 $\pm$ 0.01	0.15 $\pm$ 0.06	0.09 $\pm$ 0.03	0.22 $\pm$ 0.06
	<i>P</i>	0.913	0.801	0.398	0.685	0.998	0.670	0.976	0.812
rs1063538	T/T	0.38 $\pm$ 0.18	0.20 $\pm$ 0.06	0.23 $\pm$ 0.06	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.15 $\pm$ 0.07	0.09 $\pm$ 0.03	0.22 $\pm$ 0.07
	T/C	0.37 $\pm$ 0.18	0.20 $\pm$ 0.06	0.22 $\pm$ 0.06	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.14 $\pm$ 0.08	0.09 $\pm$ 0.03	0.22 $\pm$ 0.06
	C/C	0.35 $\pm$ 0.20	0.19 $\pm$ 0.06	0.22 $\pm$ 0.07	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.15 $\pm$ 0.08	0.09 $\pm$ 0.03	0.22 $\pm$ 0.08
	<i>P</i>	0.619	0.757	0.578	0.789	0.863	0.944	0.399	0.889

**Note.** LA, Linoleic acid; GLA,  $\gamma$ -Linoleic acid; DGLA, Dihomo- $\gamma$ -linolenic acid; AA, Arachidonic acid; DTA, Docosatetraenoic acid; ALA,  $\alpha$ -linolenic acid; EPA, Eicosapentaenoic acid; DHA, Docosahexenoic acid. SNP, Single nucleotide polymorphism. <sup>a</sup>The data were normalized by square root transformation.