

**Table S1. Component of high-fat diet**

Component	Gm%	Kcal%
Protein	26.2	20
Carbohydrate	26.3	20
Fat	34.9	60
Total (kcal/gm)	5.24	100
Component of high fat diet:		
Component	Gm	Kcal
Casein, 80 Mesh	200	800
L-Cystine	3	12
Corn Starch	0	0
Maltodextrin 10	125	500
Sucrose	68.8	275.2
Cellulose, BW200	50	0
Soybean Oil	25	225
Lard	245	2205
Mineral Mix, S10026	10	0
DiCalcium Phosphate	13	0
Calcium Carbonate	5.5	0
Potassium Citrate, 1 H <sub>2</sub> O	16.5	0
Vitamin Mix, V10001	10	40
Choline Bitartrate	2	0
FD&C Blue Dye	0.05	0
Total	773.85	4057

Typical analysis of cholesterol in lard = 0.95 mg/gram.

**Table S2. Sequences for real-time PCR primers in this study**

Gene name	Sequences (5'-3')
Mouse <i>Rpl13a</i> -F	GGGCAGGTTCTGGTATTGGAT
Mouse <i>Rpl13a</i> -R	GGCTCGGAAATGGTAGGGG
Mouse <i>Il-4</i> -F	TTGTCAT CCTGCTCTTCTTTCTC
Mouse <i>Il-4</i> -R	CAGGAAGTCTTTCAGTGATGTGG
Mouse <i>Il-5</i> -F	CTCTGTTGACAAGCAATGAGACG
Mouse <i>Il-5</i> -R	TCTTCAGTATGTCTAGCCCCTG
Mouse <i>Il-10</i> -F	GCCAAGCCTTATCGGAAATG
Mouse <i>Il-10</i> -R	TCTTCACCTGCTCCACTG
Mouse <i>Il-13</i> -F	CCTGGCTCTTGCTTGCCTT
Mouse <i>Il-13</i> -R	GGTCTTGTGTGATGTTGCTCA
Mouse <i>Ifng</i> -F	ATGAACGCTACACACTGCATC
Mouse <i>Ifng</i> -R	CCATCCTTTTGCCAGTTCCTC
Mouse <i>klf2</i> -F	GAGCCTATCTTGCCGTCCTTT
Mouse <i>klf2</i> -R	CACGTTGTTTAGGTCCTCATCC
Mouse <i>p53</i> -F	CTCTCCCCCGCAAAAGAAAAA
Mouse <i>p53</i> -R	CGGAACATCTCGAAGCGTTTA
Mouse <i>hif1<math>\alpha</math></i> -F	ACCTTCATCGGAAACTCCAAAG
Mouse <i>hif1<math>\alpha</math></i> -R	CTGTTAGGCTGGGAAAAGTTAGG
Mouse <i>cyclind2</i> -F	GAGTGGGAACTGGTAGTGTTG
Mouse <i>cyclind2</i> -R	CGCACAGAGCGATGAAGGT
Mouse <i>cyclind3</i> -F	CGAGCCTCCTACTTCCAGTG
Mouse <i>cyclind3</i> -R	GGACAGGTAGCGATCCAGGT
Human <i><math>\beta</math>-actin</i> -F	CCAACCGCGAGAAGATGA
Human <i><math>\beta</math>-actin</i> -R	CCAGAGGCGTACAGGGATAG
Human <i>Il-4</i> -F	CCAAGTCTTCCCCCTCTG
Human <i>Il-4</i> -R	TCTGTTACGGTCAACTCGGTG
human <i>Il-5</i> -F	TGGAGCTGCCTACGTGTATG
human <i>Il-5</i> -R	TTCGATGAGTAGAAAGCAGTGC
human <i>Il-13</i> -F	GAGGATGCTGAGCGGATTCTG
human <i>Il-13</i> -R	CACCTCGATTTTGGTGTCTCG

human <i>Ifng</i> -F	TCGGTAACTGACTTGAATGTCCA
human <i>Ifng</i> -R	TCGCTTCCCTGTTTTAGCTGC

**Table S3. Sequences for mouse bisulfite PCR primers in this study**

Gene name	Sequences (5'-3')
<i>Il4</i> promoter 1 -F	TTGTAAGATTAGTTGGTTTAGGATG
<i>Il4</i> promoter 1 -R	TTTCAACATAAAAAATTACACCATA
<i>Il4</i> promoter 2 -F	GTTAGTATTGTATTGTTAGTATTTTTTGAT
<i>Il4</i> promoter 2 -R	ATCTCTTAACTTTATCCCTAATCCTA
<i>Il4</i> CNS 1 -F	TATAAGGGTTGAGGAAGAGTAATGTAGTTTTTATAT
<i>Il4</i> CNS 1 -R	CACTTTAACTAATCAAACCTAAACTATATCCATA
<i>Il4</i> intron 1 and exon 2-F	TGGTTGAGGTAGGATTAGGGATAAAG
<i>Il4</i> intron 1 and exon 2-R	CCTCCAAATATACCACAACAAACC

**Table S4. Sequences for human bisulfite PCR primers in this study**

Gene name	Sequences (5'-3')
<i>Il4</i> promoter 1 -F	AAATTTATAGGGAGGTTTAGGTATAGTG
<i>Il4</i> promoter 1 -R	TTCTCCTACCTCAACCTCCCCRAATAACTA
<i>Il4</i> promoter 2 -F	GGTTTGATTTTATAGGAATATTTTATTTGTTTGTG
<i>Il4</i> promoter 2 -R	CCCATTAATAAATATCRATTTACAATAACAATATAAAAC
<i>Il4</i> promoter 3 -F	TTTAGTAAATGGGGAGATTTATTTTAAATGTTTG
<i>Il4</i> promoter 3 -R	AACCAAAACATACTTAAAAATAAAAAATCAAACCTC

**Table S5. Comparison of maternal and neonatal variables**

	CON	HC	P value
	n(%)	n(%)	
Maternal			
Age	31.05±3.02	30.83±3.45	0.84
Education background			0.56
High school	1(5.00)	3(16.67)	
Undergraduate	16(80.00)	13(72.22)	
Graduate	3(15.00)	2(11.11)	
Height (cm)	162.90±5.18	161.11±3.63	0.23
Pre-pregnancy weight (kg)	55.65±7.15	57.22±4.99	0.44
Pre-pregnancy BMI	20.91±1.80	22.02±1.60	0.05
Gestational weight gain (kg)	13.97±4.40	16.25±4.04	0.11
Prenatal BMI	26.14±2.93	28.27±2.56	0.02*
Gravidity			0.92
1	8(40)	7(38.89)	
2	6(30)	4(22.22)	
≥3	6(30)	7(38.89)	
Parity			0.34
1	10(50.00)	12(66.67)	
2	10(50.00)	6(33.33)	
Neonatal			
Gestational age	38.98±0.75	39.35±1.01	0.18
Birthweight (kg)	3.57±0.48	3.71±0.51	0.37
Birth length (cm)	50.35±1.50	50.78±1.40	0.37
Sex			0.52
Male	11(55.00)	12(66.67)	
Female	9(45.00)	6(33.33)	

Note: Data were summarized as mean ± SEM. Categorical variables are expressed as a frequency with a proportion. *P* values were determined by two-tailed Student's *t* test or Fisher's exact test, \**P*<0.05.