

## ***Supplementary Material***

### **Supplementary Figures and Tables**

#### **Supplementary Tables**

##### **Supplementary Table S1.** The nutritional composition of the daily diet

Diet composition (%)	CON group	ML group
Mulberry leaves	0.00	8.00
Soybean meal	14.00	14.00
Puffing of soybean	5.00	5.00
Soy protein concentrate	1.00	1.00
Wheat bran	7.00	0.00
corn	61.00	60.60
Protect merchant	0.30	0.30
Fish meal	0.00	0.00
A powder	6.00	5.00
salt	0.40	0.40
Soybean oil	1.00	1.00
montmorillonite	0.20	0.20
In the pig premix	2.00	2.00
Stone powder	1.20	1.20
Calcium hydrogen	1.00	1.40

A combined	100.10	100.10
Total digestible energy (MJ/kg)	13.85	13.60
Crude protein (%)	15.60	15.66
Lysine (%)	0.94	0.93
(egg + cysteine) (%)	0.65	0.63
Threonine (%)	0.52	0.50
Tryptophan (%)	0.22	0.21
Calcium (%)	0.82	0.85
Total phosphorus (%)	0.54	0.55

Note: per kg of premix to feed: Fe,155mg/kg diet; Cu,200mg; n 140mg; Mn,50mg; VA,17500IU; VE,20IU; Riboflavin, 3.6mg; Niacin, 27mg; Pantothenic acid, 13mg; B12, 0.09 mg; Biotin, 0.15mg; Choline, 0.92mg

**Supplementary Table S2** The primer sequence of qPCR

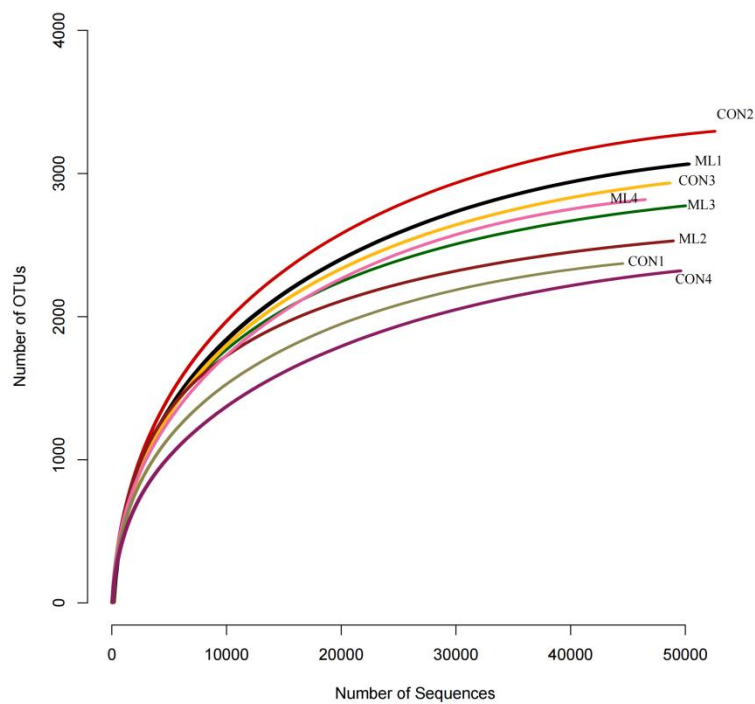
Primer name	Sequence (5'-3')
ACC-F	GGCCATCAAGGACTTCAACC
ACC-R	ACGATGTAAGCGCCGAACCTT
FASN-F	GTCCTGCTGAAGCCTAACTC
FASN-R	TCCTTGGAACCGTCTGTG
PPAR $\gamma$ -F	AGCCCTTTGGTGACTT
PPAR $\gamma$ -R	AGGACTCTGGGTGGTT

FABP4-F	CTGAGATTGCCTTCAAATTG
FABP4-R	CTTGGCTTATGCTCTCTCATA
LPL-F	CTCGTGCTCAGATGCCCTAC
LPL-R	GGCAGGGTGAAAGGGATGTT
PPAR $\alpha$ -F	AGAGCCCCATCTGTCCTCTC
PPAR $\alpha$ -R	ACTGGTAGTCTGCAAAACCAAA
HSL-F	CTTTCGCACCAGCCACAAC
HSL-R	CTCGTCGCCCTCAAAGAAGA
DGAT1-F	TGGACTACTCACGCATCAT
DGAT1-R	GTGGAAGAGCCAGTAGAAGAA

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## Supplementary Figure

### Supplementary Figure S1 Species rarefaction curve



Supplementary Figure S2 The index of Chao1 Shannon Simpson

