

Table 1

Primer names and sequences.

Primer names	Primer sequences (5'-3')
HSL-F	ACTGTCTCATCCTCCTGCTC
HSL-R	TCCATCCCTACGAAAGACC
MnHSL-3'-outer	CTTGCAACTACACCAGGGGATGCTACT
MnHSL-3'-inner	AGAGTGAGCAGGAGGATGAGAC
MnHSL-5'-outer	AAGTAGCATCCCCTGGTGTAGTTGCA
MnHSL-5'-inner	ACAGCAGATAGCAAGTTATGGGACGAGC
UPM Long	CTAATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGAGT
UPM Short	CTAATACGACTCACTATAGGGC
β -Actin F	GTGCCCATCTACGAGGGTTA
β -Actin R	CGTCAGGGAGCTCGTAAGAC
HSL-RTF	TCAAAGAAGCAGAGGCATTA
HSL-RTR	ATCGGTTTCGGGAATCTAAAA

Table 2

Ingredients and chemical composition of the experimental diets.

Items	L3P1	L3P2	L6P2	L6P4	L9P3	L9P6
Ingredients/ % (air dry matter basis)						
Fish meal	30	30	30	30	30	30
Soybean meal	10	10	10	10	10	10
Squid paste	3	3	3	3	3	3
Peanut meal	8	8	8	8	8	8
Rapeseed meal	6	6	6	6	6	6
Cottonseed meal	4	4	4	4	4	4
Corn gluten meal	4	4	4	4	4	4
α -Starch	24	24	18	18	12	12
A mixture of fish oil and soybean oil	2	1	4	2	6	3
Soybean phospholipids	1	2	2	4	3	6
Vitamin mineral premix ^a	2	2	2	2	2	2
Each molt	0.1	0.1	0.1	0.1	0.1	0.1
Spirulina powder	3	3	3	3	3	3
Ca(H ₂ PO ₄) ₂ ·H ₂ O	1.5	1.5	1.5	1.5	1.5	1.5
Cholesterol	0.2	0.2	0.2	0.2	0.2	0.2
Adhesive	0.5	0.5	0.5	0.5	0.5	0.5
CMC	0.7	0.7	3.7	3.7	6.7	6.7
Total	100.0	100.0	100.0	100.0	100.0	100.0
Chemical composition/ % (dry matter basis)						
Moisture	9.8	9.6	10.1	9.9	10.0	10.3
Crude protein	40.8	41.0	41.2	40.9	40.9	41.0
Ether extract	7.0	7.0	10.1	10.1	12.8	13.0
Ash	7.6	7.7	7.4	7.9	7.4	7.6
Gross energy/ (kJ/ g) ^b	19.54	20.23	19.77	19.52	20.33	19.64

Mineral premix provided the following per kg of diets: Cu 2.00 mg, Zn 34.30 mg, Fe 20.90 mg, Mn 6.20 mg, Se 0.18 mg, I 1.61 mg, Mg 52 mg, and Co 0.24 mg.

^a Vitamin premix provided the following per kg of diets: VA 16 000 IU, VD38 000 IU, VE 160 mg, VK3 14.70 mg, VB1 17.80 mg, VB2 48 mg, VB6 29.52 mg, VB12 240 mg, VC (35%) 800 mg, niacinamide 79.20 mg, calcium-D-pantothenate 73.60 mg, folic acid 6.40 mg, biotin 640 µg, inositol 320 mg, choline chloride 1500 mg, and L-carnitine 100 mg.

^b Gross energy was obtained from a Parr adiabatic bomb calorimeter (Changji XPY-1C, China).

Table 3

Primer names and sequences of the two lipid metabolism genes.

GenBank numbers	Primer names	Primer sequences (5'-3')
KP658863.1	SR-BI-F	TGCAGTTCTACCTCTTTCAC
	SR-BI-R	TGTCCTCCCTGAAGAAGTAA
KP690136	CPT1-F	AATTTTGTGACTGGCTTCTCC
	CPT1-R	TCCATTCTGGAAATCATCTG

Table 4

Percent identity of the HSL protein comparison between *Macrobrachium nipponense* and other known species performed with BLAST.

GenBank numbers	Gene names	Species names	similarity	E value
XP_027226179.1	hormone-sensitive lipase-like isoform X1	<i>Penaeus vannamei</i>	75.47%	0
XP_027218429.1	hormone-sensitive lipase-like	<i>Penaeus vannamei</i>	75.16%	0
XP_027226180.1	hormone-sensitive lipase-like isoform X2	<i>Penaeus vannamei</i>	75.09%	0
ROT66917.1	Hormone-sensitive lipase	<i>Penaeus vannamei</i>	75.09%	0
ROT72408.1	Hormone-sensitive lipase	<i>Penaeus vannamei</i>	73.26%	1e-175
RXG73536.1	Hormone-sensitive lipase	<i>Armadillidium vulgare</i>	53.72%	0
OWR50353.1	putative hormone-sensitive lipase	<i>Danaus plexippus</i>	45.00%	2e-147
XP_023702786.1	hormone-sensitive lipase isoform X2	<i>Cryptotermes secundus</i>	42.40%	1e-167
XP_023702785.1	hormone-sensitive lipase isoform X1	<i>Cryptotermes secundus</i>	42.02%	0