

Supporting information

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Supplementary Table S1. Composition of AIN93M and OYC-NASH2.

	Name of nutrient	Unit	AIN-93M	OYC-NASH2
General ingredients	Water	g/100g(diet)	9.0	9.0
	Crude protein	g/100g(diet)	12.7	17.1
	Crude fat	g/100g(diet)	4.3	27.4
	Rough grey	g/100g(diet)	3.0	2.9
	Crude fiber	g/100g(diet)	5.0	4.7
	NFE	g/100g(diet)	65.9	39.0
	Calories	kcal/100g(diet)	353.5	470.5
Calorie ratio	Protein calorie ratio	%/ calorie	14.4	14.5
	Fat calorie ratio	%/ calorie	11.1	52.3
	NFE calorie ratio	%/ calorie	74.5	33.2
Main fatty acid composition	Saturated fatty acid	%/total fatty acids	15.9	41.7
	Monounsaturated fatty acid	%/total fatty acids	23.8	46.4
	Polyunsaturated fatty acids	%/total fatty acids	60.1	10.1
Others important ingredient	Amount of methionine added	g	0.34	0.11
	Amount of choline added	g	0.18	-

NFE: Nitrogen-Free Extract

Supplementary Table S2. Primer pairs used for qPCR analysis.

Gene	Accession #	Primer sequence (5'-3')
<i>18S rRNA</i>	NR_003278	F 5'-CACGGACAGGATTGACAGATTG-3' R 5'-CAGACAAATCGCTCCACCAA-3'
<i>Acta2</i>	NM_007392	F 5'-ACTGGGACGACATGGAAAAG-3' R 5'-GTTCAGTGGTGCCTCTGTCA-3'
<i>Afp</i>	NM_007423	F 5'-AGTTTCCAGAACCTGCCGAG-3' R 5'-ACCTTGTCGTACTGAGCAGC-3'
<i>Casp1</i>	NM_009807	F 5'-TACCTGGCAGGAATTCTGGA-3' R 5'-AGTCCTGGAAATGTGCCATC-3'
<i>Ccl2</i>	NM_011333	F 5'-AGGTCCCTGTGTCATGCTTCTG-3' R 5'-GGGATCATCTTGCTGGTGAA-3'
<i>Ccnd1</i>	NM_007631	F 5'-CCAGAGGCGGATGAGAACAA-3' R 5'-ATGGAGGGTGGGTGGAAA-3'
<i>Cdk4</i>	NM_009870	F 5'-CCTGAGGACATACCTGGACAAAG-3' R 5'-CCGCTTAGAAACTGACGCATT-3'
<i>Cd68</i>	NM_001291058	F 5'-GAGGTTGTGACGGTACCCAT-3' R 5'-ACATTGTATTCCACCGCCAT-3'
<i>Clec1b</i>	NM_019985.3	F 5'-CTGGGGATCATGTGCGGTCAC-3' R 5'-TGGTATCTCCACTTCGTGGC-3'
<i>Clec4f</i>	NM_016751.3	F 5'-TCACTACTGTGGGCTTGCAG-3' R 5'-GACTTAGGCCCCAGTCCTTG-3'
<i>Col1a1</i>	NM_007742	F 5'-ACATGTTTCAGCTTTGTGGACC-3' R 5'-TAGGCCATTGTGTATGCAGC-3'
<i>Cxcr3</i>	NM_009910.3	F 5'-AGCCATGTACCTTGAGGTTAG-3' R 5'-GTCAGAGAAGTCGCTCTCGT-3'
<i>Cxcr6</i>	NM_030712.4	F 5'-ACTGGGCTTCTCTTCTGATGCC-3' R 5'-CACTACCAGGTACACACAGGG-3'
<i>Ddit3</i>	NM_007837	F 5'-CAGCGACAGAGCCAGAATAA-3' R 5'-GACCAGGTTCTGCTTTCAGG-3'
<i>Itgam</i>	NM_008401	F 5'-ATTCGGTGATCCCTTGGATT-3' R 5'-GTTTGTTGAAGGCATTTCCC-3'

<i>Itga2</i>	NM_008396.3	F	5'-GCGGCTGCTAATGCTAGTTC-3'
		R	5'-CCAACCAGTAGCCAGTTGCC-3'
<i>Klrb1c</i>	NM_001159904.2	F	5'-GGGATGAGTGTCTTAGTGCGAG-3'
		R	5'-CCAGTCTTGTGGGCACTCTAAA-3'
<i>Lgals3</i>	NM_010705	F	5'-GTACAGCTAGCGGAGCGG-3'
		R	5'-CGGATATCCTTGAGGGTTTG-3'
<i>Myc</i>	NM_010849	F	5'-AGCCCCTAGTGCTGCATGA-3'
		R	5'-GTTTGCCTCTTCTCCACAGACA-3'
<i>Nrf2</i>	NM_007527	F	5'-GGACATGGAGCAAGTTTGGC-3'
		R	5'-GGCCTCAGCCCATCTTCTTC-3'
<i>Ncf1</i>	NM_010876	F	5'-GCCCAAAGATGGCAAGAATAAC-3'
		R	5'-TAGTCAGCAATGGCCCGATAG-3'
<i>Pcna</i>	NM_011045	F	5'-AGGAGGCGGTAACCATAGAGA-3'
		R	5'-GAGACAGTGGAGTGGCTTTTG-3'
<i>p16</i>	NM_001040654	F	5'-ATGGAGTCCGCTGCAGACAGAC-3'
		R	5'-ACGTTGCCCATCATCATCACCTGA-3'
<i>Spp1</i>	NM_009263	F	5'-CTCCTTGCGCCACAGAATG-3'
		R	5'-TTGGAAGAGTTTCTTGCTTAAAGTCA-3'
<i>Sqstm1</i>	NM_011018	F	5'-GTGGGACAGCCAGAGGAACAG-3'
		R	5'-TGAGGGGTCTAGAGAGCTTGG-3'
<i>Tgf</i>	NM_011577	F	5'-GGAGAGCCCTGGATACCAAC-3'
		R	5'-CAACCCAGGTCCTTCCTAAA-3'
<i>Timd4</i>	NM_178759.4	F	5'-GTCCGCCTTCACTACAGAATCA-3'
		R	5'-CTGCAAAGACTCACTTGTTGTT-3'
<i>Tnf</i>	NM_013693	F	5'-CCACCACGCTCTTCTGTCTAC-3'
		R	5'-AGGGTCTGGGCCATAGAACT-3'
<i>Tnfsf14</i>	NM_019418.4	F	5'-AGCACATCTTACAGGAGCCAAC-3'
		R	5'-AGTAACCGGGCTCCATGGTC-3'
<i>Vsig4</i>	NM_177789.5	F	5'-GCACTCCTCTTTGGAAGCAAC-3'
		R	5'-TCCCTGAACCAGCAATGGTC-3'

F, forward sequence; *R*, reverse sequence.

Acta2, actin a2 smooth muscle aorta

Afp, alpha fetoprotein

Casp1, caspase 1

Ccl2, chemokine (C-C motif) ligand 2
Ccnd1, cyclin D1
Cdk4, cyclin-dependent kinase 4
Cd68, CD68 antigen
Clec1b, C-type lectin domain family 1, member b
Clec4f, C-type lectin domain family 4, member f
Col1a1, collagen type I alpha 1 chain
Cxcr3, chemokine (C-X-C motif) receptor 3
Cxcr6, chemokine (C-X-C motif) receptor 6
Ddit3, DNA damage-inducible transcript 3
Itgam, integrin alpha M
Klrb1c, killer cell lectin-like receptor subfamily B member 1C
Lgals3, lectin, galactose binding, soluble 3
Myc, myelocytomatosis oncogene
Nrf2, Nuclear factor erythroid 2-related factor 2
Pcna, proliferating cell nuclear antigen
p16, cyclin dependent kinase inhibitor 2A
Ncf1, Neutrophil cytosol factor 1
Spp1, secreted phosphoprotein 1
Sqstm1, sequestosome 1
Tgf, transforming growth factor beta 1
Timd4, T cell immunoglobulin and mucin domain containing 4
Tnf, tumor necrosis factor alpha
Tnfsf14, tumor necrosis factor (ligand) superfamily, member 14
Vsig4, V-set and immunoglobulin domain containing 4

Supplementary Figure S1. Experimental design and time course of weight change in C57BL/6J mice fed OYC-NASH2 diet.

(A) C57BL/6J mice were divided into two groups, the control group (n=41) was fed a AIN93M diet and the OYC-NASH2 group (n=74, two mice died at 60 weeks) was fed the OYC-NASH2 diet for 60 weeks. (B) Body weight and some organ weight ratios of mice during the feeding period. Data are expressed as the means \pm SEM. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.001$ between AIN93M diet group and OYC-NASH2 diet group. Con, control; eWAT, epididymal white adipose tissue; W, week of the treatment.

