

Table S1 Ingredients of the experimental diets

Ingredients (g kg ⁻¹)	Normal	SHR	EPL
Potato starch	349.5	349.5	349.5
Casein	200	200	200
Sucrose	100	100	100
Soy oil	50	50	46
Lard	200	200	184
Cellulose	50	50	50
Mineral-salt mix	35	35	35
Vitamin mix	10	10	10
L-cystine	3	3	3
Choline bitartrate	2.5	2.5	2.5
EPA-PL	0	0	20

Table S2 Primer sequence

Gene	Forward primer	Reverse primer
<i>β-actin</i>	GGAGATTACTGCCCTGGCTCCTA	GACTCATCGTACTCCTGCTTGCTG
<i>ucp2</i>	TGAGTCTGTGGTCGGGTGGATG	GCGGAGGAAGGAAGGCATGAAC
<i>lipe</i>	GAGGCCTTTGAGATGCCACT	AGATGAGCCTGGCTAGCACAG
<i>lpl</i>	AAGGTCAGAGCCAAGAGAAGCA	CCAGAAAAGTGAATCTTGACTTGGT
<i>gk</i>	GTGGTGCTTTTGAGACCCGTT	TTCGATGAAGGTGATTTGCA
<i>gpd1</i>	GCCGACATCCTGATCTTTGT	GCTCCCCAATCACTTCAGAG
<i>cpt1a</i>	AGGACGGAGACAGTCAGTCAGTAA C	GGAGGCAAGAGGATCAGAAGTTCAA G
<i>srebp1c</i>	CGCTACCGTTCCTCTATCAATGAC	AGTTTCTGGTTGCTGTGCTGTAAG
<i>scd1</i>	TTCTTCGCCACTGACTTGCT	ACGATGTTGAGATGTGAGACTGT
<i>FoxO1</i>	GCATCCATGGACAACAACAG	TGATGGTGCTAGCGTTTGAG
<i>acox1</i>	GTATAAACTCTCCCGCTCCTG	CCAGGTAGTAAAAGCCTTCAGC
<i>pi3k</i>	CCTCTCCTTATAAAGCTCCTGGAA	GATCACAATCAAGAAGCTGTCGTAA
<i>irs1</i>	ATGTCGCCAGTGGGAGATT	CTTCGGCAGTTGCGGTATA
<i>irs2</i>	CAGCACCTACGCAAGCATCG	CCGCAGCACTTTACTCTTTACC
<i>pparγ</i>	GTGATGGAAGACCACTCGC	CCCACAGACTCGGCACTC
<i>glut4</i>	ACTAAGAGCACCGAGACCAA	CTGCCCCGAAAGAGTCTAAAG
<i>akt</i>	TTCTACAACCAGGACCACGAGC	TGATGCTGAGGAAGAACCGATG
<i>ehhadh</i>	ATGGCCAGATTCAGGAATG	TGCCACTTTTGTGATTTGC
<i>cd36</i>	AGTTCTCAATCTGGCTGTGGC	CACACCAACTGTGGTACTTATAGGA
<i>ppara</i>	GAAGCAGATGACCTGGAAAGT	AGCCTGGACAGCTCCCTAA
<i>fasn</i>	CACAGCATTCAGTCCTATCCACAGA	CACAGCCAACCAGATGCTTCA
<i>acaa</i>	TCAGGTGAGTGATGGAGCAG	CACACAGTAGACGGCCTGAC

Table S3 The effect of EPA-PL on general parameters

	Normal	SHR	EPL
Food intake (g/day)	23.2±1.1	16.9±1.1 ^a	17.0±1.1 ^a
Initial body weight (g)	257.8±12.0	255.8±10.7 ^a	266.3±11.5 ^a
Final body weight (g)	334.5±19.4	274.4±12.6 ^a	293.4±2.7 ^a
Liver (g)	9.4±0.9	8.2±0.3 ^a	8.6±0.6 ^a
Perirenal fat (g)	6.6±1.1	4.3±0.1 ^a	4.7±0.3 ^a
Subcutaneous Fat (g)	5.2±0.5	3.8±0.4 ^a	4.0±0.2 ^a
epididymal fat (g)	5.7±0.6	4.4±0.1 ^a	4.6±0.3 ^a
gastrocnemius muscle(g)	4.9±0.4	3.4±0.1 ^a	3.6±0.1 ^a

Different letters indicated that significant difference at $p < 0.05$ between EPL group and SHR group.

Table S4 Sequence of CD36

0001	AGCAAGTGCT	CTTCCTTGAT	TCTGCTGCAC	GAGGAGGAGA	ATGGGCTGCG	ATCGGAACTG	Normal rats SHR rats
0061	TGGGCTCATT	ACTGGAGCCG	TTATTGGTGC	TGTCCTGGCT	GTGTTTGGAG	GCATTCTCAT	
0121	GCCGGTTGGA	GACCTACTCA	TTGAGAAGAC	AATCAAAAGG	GAAGTTGTCC	TTGAAGAAGG	
0181	AACCATTGCT	TTCAAAAAC	GGGTGAAAAC	GGGCACCACT	GTGTACAGAC	AGTTTTGGAT	
0241	CTTTGACGTG	CAAAACCCAG	AGGAAGTGGC	AAAGAATAGC	AGCAAGATCA	AGGTAAACA	
0301	GAGAGTCTCT	TACACATACA	GAGTTCGTTA	TTTAGCCAAG	GAAAGTATAA	CTCAGGACCC	
0361	CAAAGACAGC	ACTGTCTCTT	TTGTACAACC	CAATGGAGCC	ATCTTTGAGC	CTTCACTGTC	
0421	TGTTGGAACA	GAGAATGACA	ACTTCACAGT	TCTCAATCTG	GCTGTGGCAG	CTGCACCACA	
0481	TATCTACACA	AACTCATTTG	TTCAAGGTGT	GCTCAACAGC	CTTATCAAAA	AGTCCAAGTN	
0541	TTCTANGTTN	CAAACACGAA	GTTTGAAGGA	ACTCTTGTTG	GGTTACAAAG	ATCCATTCTT	
0601	GAGTTTGGTT	CCATATCCTA	TAAGTACCAC	AGTTGGTGTG	TTTTATCCTT	ACAATAACAC	
0661	TGTAGATGGA	GTTTATAAAG	TTTTCAATGG	AAAGGATAAC	ATAAGCAAAG	TTGCCATAAT	
0721	TGATACCTAT	AAAGGAAAAA	GGAATTTGTC	CTATTGAAAA	AGTTATTGCG	ACATGATTAA	
0781	TGGCACAGAT	GCAGCCTCCT	TTCCACCTTT	TGTTGAGAAG	TCTCAAACAC	TGAGGTTTTT	
0841	TTCTCTGAC	ATTGTCAGGT	CCATCTATGC	TGTGTTTGAA	TCTGAAGTGA	ACCTTAAAGG	
0901	AATCCCCGTA	TACAGATTTG	TTCTCCAGC	CAACGCCTTT	GCCTCCCCAC	TCCAGAACCC	
0961	AGACAACCAC	TGTTTCTGCA	CTGAAAAAGT	AATCTCAAAT	AACTGTACGT	CGTATGGTGT	
1021	GCTGGACATT	GGCAAGTGCA	AAGAAGGAAA	GCCTGTGTAC	ATTTCTCTTC	CACATTTCTT	
1081	ACATGCAAGT	CCTGATGTCT	CAGAACCCTAT	CGAAGGCTTG	AATCCTAACG	AAGATGAGCA	
1141	TAGGACATAC	TTGGATGTGG	AACCCATAAC	TGGATTCACT	CTACAGTTTG	CAAAACGACT	
1201	GCAGGTCAAC	ATACTGGTCA	AGCCAGCTAG	AAAAATAGAA	GCACTGAAGA	ATCTGAAGAG	
1261	ACCTTACATT	GTACCTATAC	TGTGGCTAAA	TGAGACTGGG	ACCATCGGCG	ATGAGAAAGC	
1321	AGAAATGTTT	AGAAACCAAG	TGACCGGGAA	AATAAAGCTC	CTGGGCCTGG	TTGAGATGGT	
1381	CTTACTTGGT	GTTGGAGTAG	TGATGTTTGT	TGCTTTTATG	ATTTCATACT	GTGCTTGCAG	
1441	ATCTAAGAAT	GGAAAATAAG	TAAGTGCACA	TCAAAGTATG	TATCATCTCA	TCAAAGTATG	
1501	TTTTCATCTC	ATCAAGAAGG	GATTATACAT	GAAAGCACAA	ATATACATTT	CTGCACATGT	
1561	TGTTTAGCCA	GCTATAACGC	CTTAATATAT	CCCTATTTTT	TATAACA	TTTCTGCAG	
1621	-TAGCCAG-T	ATA—GT-TT	AA—TATCCC	AA—T—GA-	-T-A—G—	TTGTAAAAGTA	
1621	AATTAAGAAG	CAAATGATGA	TTGAAATCAT	TACCACAGGG	AAATGAGTAC	-AAAG—AAT	
1621	TGAGAAGCAA	ATGATTATTG	AAATC			AAGTATAATT	
1681	TTTGTCCCAA	CTTAGACTTG	CTAATTTCT				

Figure S1 Raw data of western blots in liver tissue.



