SUPPLEMENTARY MATERIAL

Supplementary Figure 1. Loss of hepatic fatty acid oxidation does not alter body weight or adiposity during low fat feeding, related to Figure 1.

Supplementary Figure 2. Loss of hepatic fatty acid oxidation does not significantly alter serum TBARS or transcriptional programming of oxidative stress genes related to Figure 2.

Supplementary Figure 3. Loss of hepatic fatty acid oxidation did not affect bone quality related to Figure 3.

Supplementary Figure 4. Transcriptional programming of bile acid metabolism genes in the liver was not significantly altered in $Cpt2^{L-/-}$ mice by HFD, related to Figure 4.

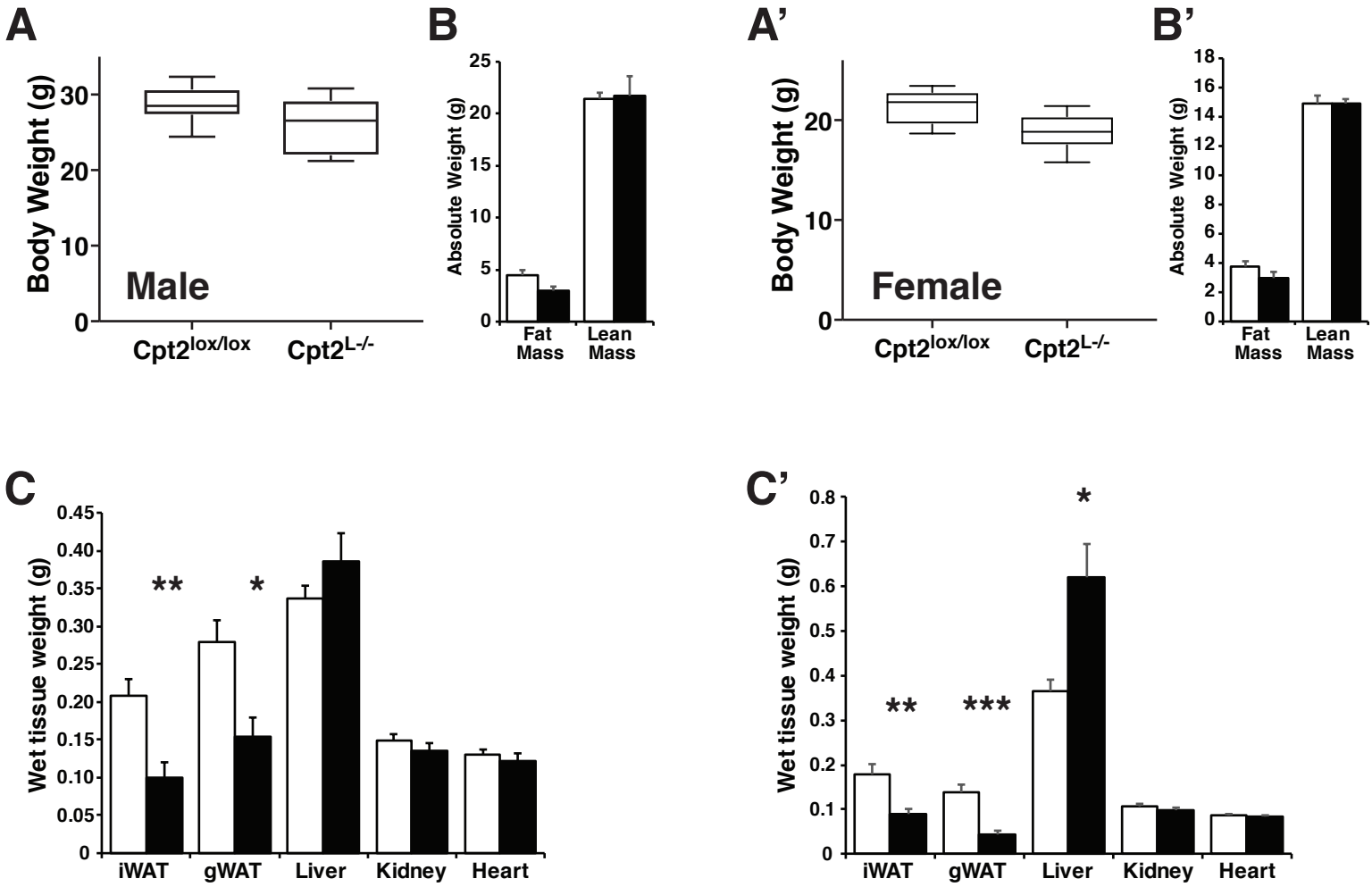
Supplementary Figure 5. 2-Deoxy-glucose uptake in skeletal muscle and adipose tissue is not different in $Cpt2^{lox/lox}$ and $Cpt2^{L-/-}$ mice under hyperinsulinemic-euglycemic clamp, related to Figure 5.

Supplementary Figure 6. Liver-specific loss of Cpt2 did not induce browning in adipose tissue, related to Figure 6.

Supplementary Figure 7. Effects of feeding female Cpt2L-/- mice a high fat diet at thermoneutrality, related to Figure 7.

Supplementary Table 1. List of PCR primers, related to Experimental Procedures.

Supplementary Table 2. Fatty acid composition of Liver and iWAT of $Cpt2^{lox/lox}$ and $Cpt2^{L-/-}$ mice fed a HFD for 16wks, related to Figure 2.



Supplementary Figure 1. Loss of hepatic fatty acid oxidation does not alter body weight or adiposity during low fat feeding, related to Figure 1.

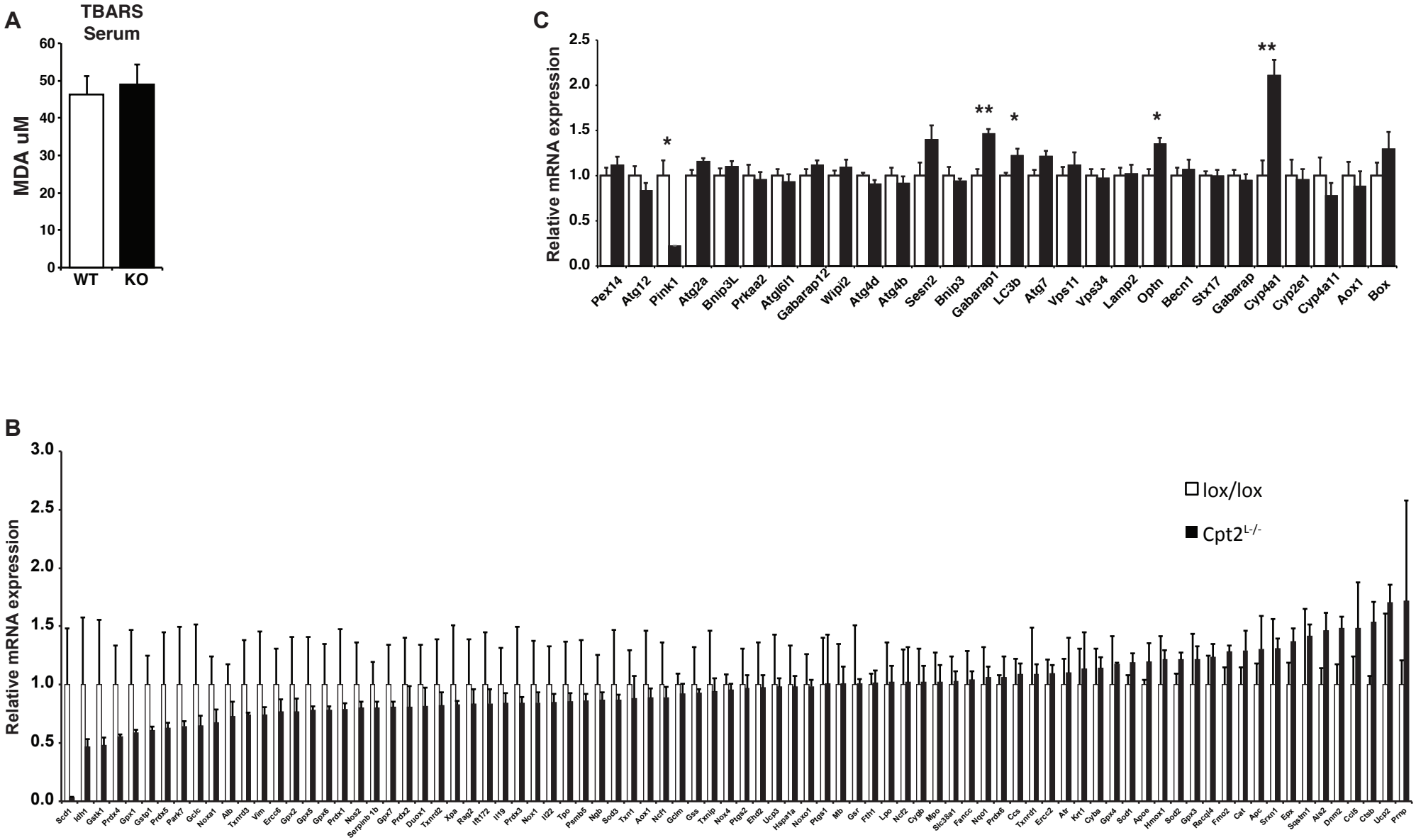
(A) Body weight of male Cpt2lox/lox and Cpt2L-/- mice fed a LFD for 16wks (n=5-10).

(B) Body compositions of male Cpt2lox/lox and Cpt2L-/- mice fed a LFD for 16wks measured by EchoMRI (n=5-10).

(C) Wet weights of iWAT and gWAT unilateral depots, liver and kidney for male Cpt2lox/lox and Cpt2L-/- mice fed a LFD for 16wks (n=5-10).

A', B' and C' indicate body weight, body composition and wet tissue weights, respectively, of female Cpt2lox/lox and Cpt2L-/- mice fed a LFD for 16 weeks (n=5-8).

Data are expressed as mean ± SEM. *p<0.05; **p<0.01; ***p<0.001



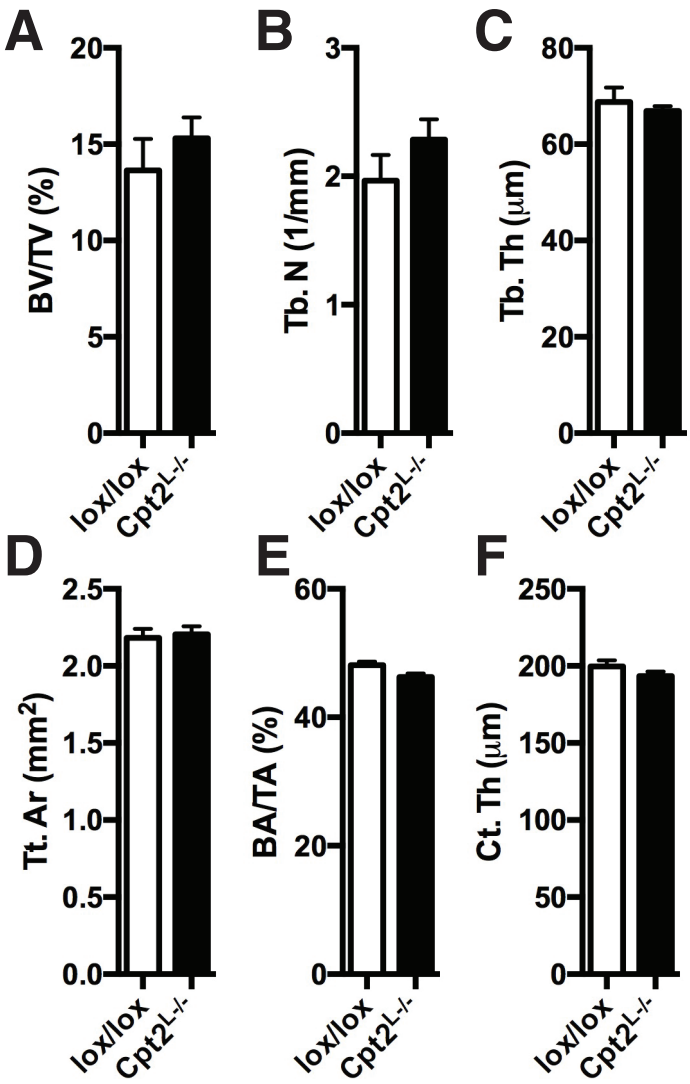
Supplementary Figure 2. Loss of hepatic fatty acid oxidation does not significantly alter serum TBARS or transcriptional programming of oxidative stress genes, related to Figure 2.

(A) TBARS assay measuring lipid peroxidation in serum of male Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks (n=6).

(B) Gene expression profiling of genes involved in oxidative stress via oxistress array in livers of male Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks (n=3).

(C) Gene expression profiling of genes involved in peroxisome and authophagy genes in livers of male Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks (n=6).

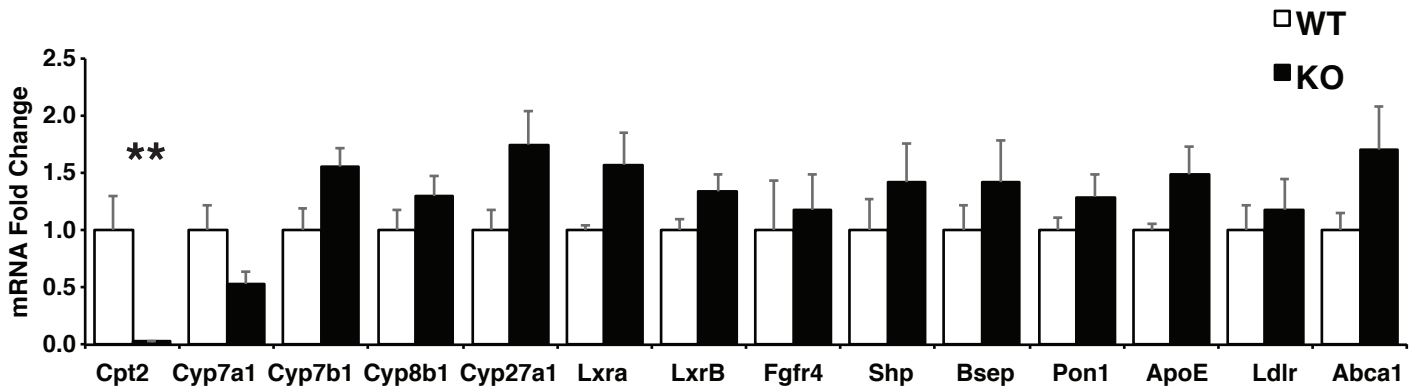
Data are expressed as mean ± SEM. *p<0.05; **p<0.01; ***p<0.001



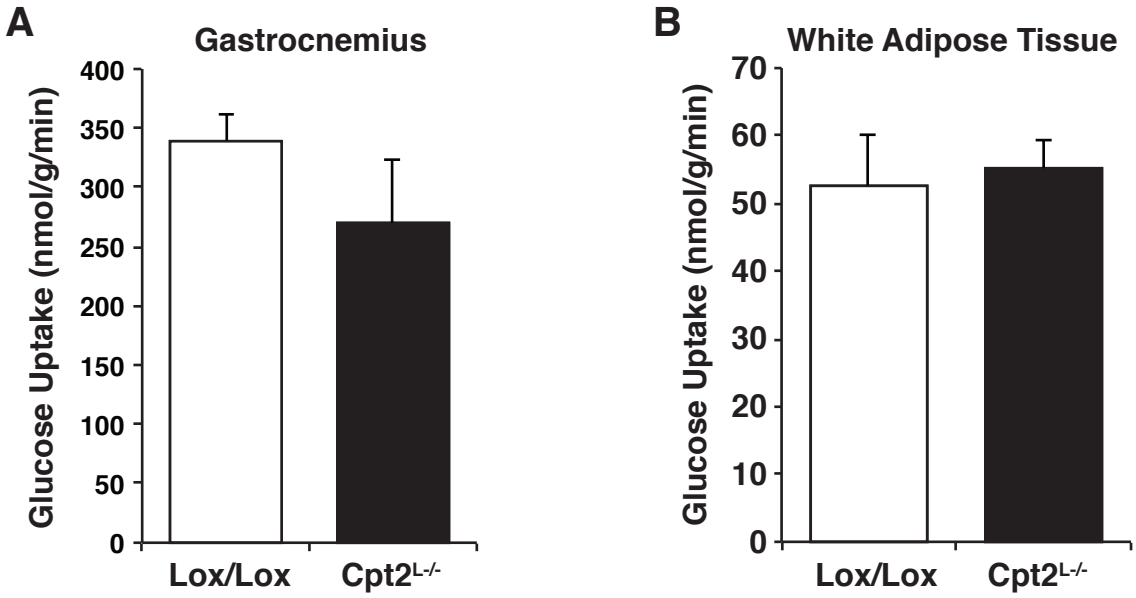
Supplementary Figure 3. Loss of hepatic fatty acid oxidation did not affect bone structure, related to Figure 3.

(A) Trabecular bone volume/tissue volume (BV/TV) of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.
(B) Trabecular number of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.
(C) Trabecular thickness of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.
(D) Cortical bone volume/tissue volume (BV/TV) of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.
(E) Cortical number of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.
(F) Cortical thickness of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks.

Data are expressed as mean ± SEM (n=8-12)



Supplementary Figure 4. Transcriptional programming of bile acid metabolism genes in the liver was not significantly altered in Cpt2L-/- mice by HFD, related to Figure 4. Data are expressed as mean ± SEM. **p<0.01 (n=4).

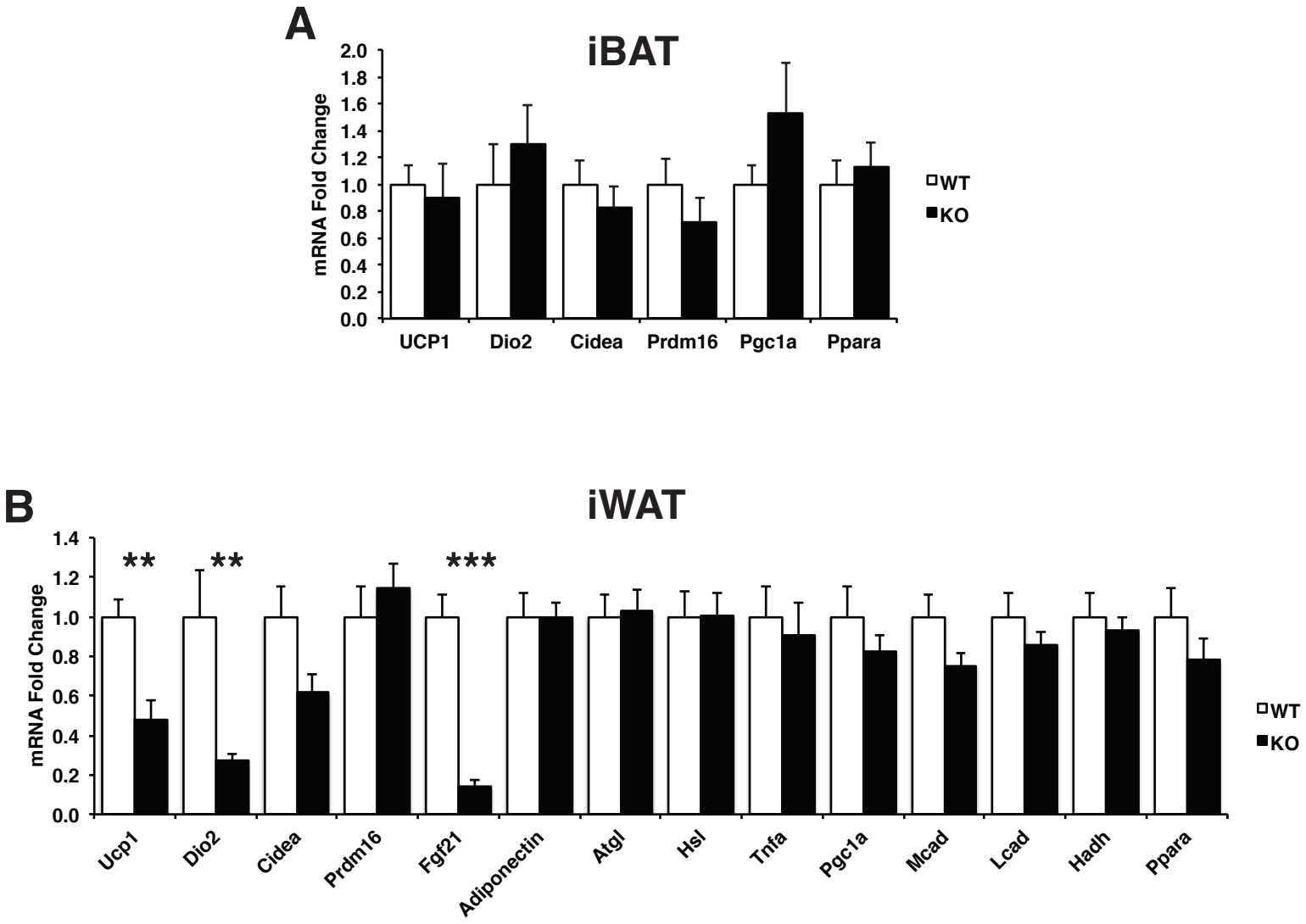


Supplementary Figure 5. 2-Deoxy-glucose uptake in skeletal muscle and adipose tissue is not different in Cpt2lox/lox and Cpt2L-/- mice under hyperinsulinemic-euglycemic clamp, related to Figure 5.

(A) 2-Deoxy-glucose uptake in Gastrocnemius muscle in Cpt2lox/lox and Cpt2L-/- mice (n=7-9).

(B) 2-Deoxy-glucose uptake in gWAT in Cpt2lox/lox and Cpt2L-/- mice (n=7-9).

Data are expressed as mean ± SEM.

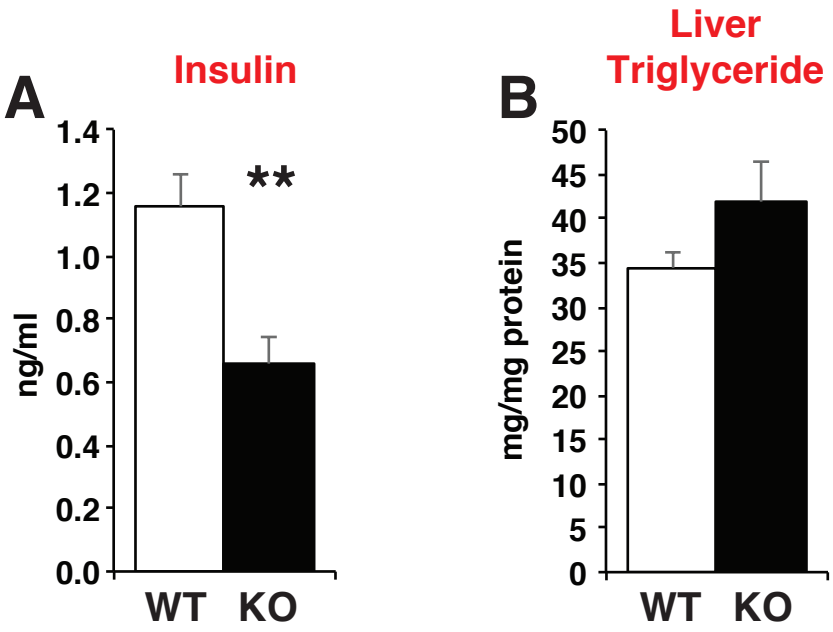


Supplementary Figure 6. Liver-specific loss of Cpt2 did not induce browning in adipose tissue, related to Figure 6.

(A) BAT gene expression in Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks (n=6).

(B) iWAT gene expression in Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks (n=6).

Data are expressed as mean ± SEM. **p<0.01; ***p<0.001



Supplementary Figure 7. Effects of feeding female Cpt2L-/- mice a high fat diet at thermoneutrality, related to Figure 7.

(A) Serum insulin concentration of female Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks at 30°C (n=6).

(B) Liver triglyceride concentration of female Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks at 30°C (n=6).

Data are expressed as mean ± SEM. **p<0.01

Supplementary Table 1. List of PCR primers, related to Experimental Procedures.

Gene	Forward	Reverse
fgf15	gaggaccaaaacgaacgaaatt	acgtccttgatggcaatcg
fxr	gcttgatgtgctacaaaagctg	cgtggtgatggttgaatgtcc
ostα	atgcatctgggtgaacagaa	gagtagggaggtgagcaagc
ostb	gaccacagtgcagagaaagc	cttgtcatgaccaccaggac
ibabp	caaggctaccgtgaagatgga	cccacgacctccgaagtct
diet1	actgttcggttctggttctac	ctccagatgcacacgttggtg
cyp4a1	ctcattcctgcccttctcag	tcccatttttggacttcagc
cyp2e1	atgtctgccctcggagtga	gatgtccttccaggtaggtcc
cyp4a11	aggagctccaacaggaccag	cctgatggctgaaggcacac
Aox1	agctccgatcagccagacat	ttcttgaaacagagcccagaatg
box	gggcattccacatccggttg	tggctcctgagcagatcagc
pex14	aggactgacagacgaagagatt	tgatgatagccaaggcaccata
atg12	ggcctcggaacagttgttta	cagcaccgaaatgtctctga
pink1	ttcttccgccagtcggtag	ctgcttctcctcgatcagcc
atg2a	ccacctctgcaaatcggca	ccagttgtcctgatacctcca
bnip3l	atgtctcacttagtcgagccg	ctcatgctgtgcatccagga
prkaa2	caggccataaagtggcagtta	aaaagtctgtcggagtgctga
atg16l1	cgaatctggactgtggatga	agcaggaacttggcagagag
gabarapl2	tcgggctctcagattgttgac	atggccttctcggagggaa
wipi2	aggataacacgtccctagctg	tctctccacaatgcagacatct
atg4d	gtcaagtatggttgggcagtt	tgtcaccctctccctcgaaat
atg4b	catccatcagatagcgcaaa	tgatttcctccatcaccaca
sesn2	tccgagtgccattccgagat	tccgggtgtagacccatcac
bnip3	tcctgggtagaactgcacttc	gctgggcatccaacagtattt
gabarapl1	ggaccacccctttcgagtatc	cctcttatccagatcagggacc
lc3b	cccaccaagatcccagtgat	ccaggaacttggtcttgtcca
atg7	tgcctatgatgatctgtgtc	caccaactgttatctttgtcc
vps11	aaaagagagacggtggcaatc	agcccagtaacgggatagttg
vps34	cctggacatcaacgtgcag	tgtctcttggtatagcccagaaa
lamp2	gatgtgcctctctccggtta	attggactgaacggctccta
optn	atgtcccatcaacctctgagc	tcaaatcgccctttcatagcttg
becn1	ggaaaagaaccgcaaggtggtg	aaactgtccgctgtgccagatg
stx17	tcaaagtggcaggaattgcag	aattttccacctgtgaagcctaa
gabarap	aagaggagcatccgttcgaga	gctttgggggctttttccac
Acsl1	atctggtggaacgaggcaag	tcctttggggttgcctgtag
Pgc1a	caacatgctcaagccaaaccaaca	cgctcaatagtcttgttctcaaatggg
Acot1	gacaagaagagcttcattcccgtg	catcagcatagaactcgctcttcc
Acot2	agtcaacgacgcaaaatggtg	gctcttccaatcctgttggc
Acox1	acgccacttccttgctcttc	agattggtagaaattgctgcaaa
Cpt1a	ccatcctgtcctgacaaggtttag	cctcacttctgttacagctagcac
Mcad	aacacttactatgcctcgattgca	ccatagcctccgaaaatctgaa
Lcad	tttcctcggagcatgacatttt	gccagctttttcccagacct
Hadha	tgcatttgccgcagctttac	gttggcccagatttcgttca
Ppara	gcgtacggcaatggctttat	gaacggcttcctcaggttctt
Pdk4	atctaacatcgccagaattaaacc	ggaacgtacacaatgtggattg
Gpnmb	cattcccatctcgaaggtgaaa	aaatggcagagtcgttgagga
Phospho1	aagcacatcatccacagtccctc	ttggtctccagctgtcatccag
Fabp3	acctggaagctagtggacag	tgatggtagtaggcttggtcat
Atf3	cgaagactggagcaaaatgat	caggttagcaaaatcctcaaac
Plin3	tccaagctggacttggtagg	gcgcatctgtaccattgct
Jun	ccttctacgacgatgccctc	ggttcaaggtcatgctctgttt
Agpat9	ggccttcggattatccctgg	cttgggggctcctttctgaa
Pex11a	gacgccttcatccgagtcg	cggcctctttgtcagctttaga
Ehhadh	cagatgaagcactcaagcttg	accttggcaatggcttctgca
Myc	atgcccctcaacgtgaacttg	cgcaacataggatggagagca

Supplementary Table 2. Fatty acid composition of Liver and iWAT of Cpt2lox/lox and Cpt2L-/- mice fed a HFD for 16wks, related to Figure 2.

	LIVER ug/mg tissue					LIVER %					ADIPOSE ug/mg tissue					ADIPOSE %				
	LOX/LOX	SE	Cpt2 A-/-	SE	ttest	LOX/LOX	SE	Cpt2 A-/-	SE	ttest	LOX/LOX		Cpt2 A-/-		ttest	LOX/LOX		Cpt2 A-/-		ttest
C10:0 - Capric	0.04	0.02	0.19	0.02	0.000	**0.00%**	0.00156%	**0.01%**	0.00064%	0.001	0.06	0.00706377	0.07	0.0138287	0.551	**0.01%**	0.000348%	**0.01%**	0.001273%	0.115
C12:0 - Lauric	0.22	0.12	1.13	0.11	0.000	**0.02%**	0.00937%	**0.07%**	0.00399%	0.001	0.34	0.04726923	0.46	0.08712445	0.224	**0.04%**	0.001450%	**0.07%**	0.005894%	0.001
C14:0 - Myristic	6.93	1.58	19.28	1.33	0.000	**0.61%**	0.11349%	**1.22%**	0.02382%	0.001	5.43	0.75667368	6.86	1.28265766	0.343	**0.71%**	0.015598%	**1.02%**	0.076703%	0.002
C15:0 - Pentadecanoic	1.31	0.25	3.59	0.27	0.000	**0.12%**	0.01780%	**0.23%**	0.00608%	0.000	0.72	0.1076194	0.76	0.12799941	0.809	**0.09%**	0.002555%	**0.11%**	0.005950%	0.020
C16:0 - Palmitic	264.84	11.30	329.22	11.69	0.003	**24.22%**	0.69111%	**21.04%**	0.57787%	0.007	148.79	18.2648431	124.75	17.5636436	0.373	**19.61%**	0.308535%	**18.87%**	0.599516%	0.345
C17:0 - Heptadecanoic	2.72	0.25	5.44	0.57	0.001	**0.25%**	0.01253%	**0.34%**	0.02072%	0.002	2.85	0.64300314	1.75	0.37411783	0.194	**0.36%**	0.037552%	**0.26%**	0.022852%	0.090
C18:0- Stearic	53.79	2.84	79.40	3.64	0.000	**4.92%**	0.18758%	**5.06%**	0.10182%	0.544	43.53	6.12948929	27.37	4.37418293	0.069	**5.68%**	0.197134%	**4.11%**	0.156936%	0.001
C20:0 - Arachidic	2.76	0.48	0.69	0.08	0.004	**0.26%**	0.04739%	**0.04%**	0.00373%	0.003	0.66	0.11122809	0.41	0.07850584	0.111	**0.09%**	0.004051%	**0.06%**	0.004789%	0.015
C22:0 - Behenic	1.44	0.24	0.61	0.02	0.012	**0.14%**	0.02710%	**0.04%**	0.00234%	0.010	0.17	0.01548838	0.14	0.02454148	0.290	**0.02%**	0.000887%	**0.02%**	0.001576%	0.296
C23:0 - Tricosanoic	0.21	0.01	0.34	0.01	0.000	**0.02%**	0.00159%	**0.02%**	0.00114%	0.321	0.05	0.00481086	0.05	0.00812591	0.951	**0.01%**	0.000378%	**0.01%**	0.000566%	0.338
C24:0 - Lignoceric	0.42	0.03	0.50	0.01	0.043	**0.04%**	0.00426%	**0.03%**	0.00120%	0.178	0.12	0.01328557	0.10	0.02532926	0.559	**0.02%**	0.001311%	**0.02%**	0.002085%	0.686
C25:0 - Pentacosanoic	0.01	0.00	0.02	0.00	0.000	**0.00%**	0.00005%	**0.00%**	0.00004%	0.001	0.01	0.00075026	0.01	0.00100028	0.226	**0.00%**	0.000031%	**0.00%**	0.000080%	0.179
C26:0 - Hexacosanoic	0.01	0.00	0.01	0.00	0.022	**0.00%**	0.00005%	**0.00%**	0.00002%	0.049	0.01	0.00107886	0.01	0.00110238	0.199	**0.00%**	0.000025%	**0.00%**	0.000071%	0.105
C28:0 - Octacosanoic	0.00	0.00	0.00	0.00	0.306	**0.00%**	0.00002%	**0.00%**	0.00002%	0.602	0.00	0.00025447	0.00	0.00013062	0.149	**0.00%**	0.000020%	**0.00%**	0.000021%	0.249
C30:0	0.00	0.00	0.00	0.00	0.333	**0.00%**	0.00003%	**0.00%**	0.00002%	0.700	0.00	0.00039531	0.00	0.00022175	0.520	**0.00%**	0.000034%	**0.00%**	0.000021%	0.822
C10:1 - Caproleic	0.02	0.01	0.10	0.01	0.001	**0.00%**	0.00105%	**0.01%**	0.00043%	0.002	0.00	0.00063755	0.01	0.00119983	0.313	**0.00%**	0.000047%	**0.00%**	0.000084%	0.032
C12:1 - Dodecaenoic	0.00	0.00	0.00	0.00	0.010	**0.00%**	0.00002%	**0.00%**	0.00003%	0.025	0.00	0.00053283	0.01	0.00269868	0.010	**0.00%**	0.000038%	**0.00%**	0.000286%	0.001
C16:1(n-9)	33.46	4.94	73.91	5.45	0.000	**2.99%**	0.31445%	**4.68%**	0.16069%	0.001	9.79	1.86703136	8.20	1.47194833	0.533	**1.24%**	0.088427%	**1.22%**	0.087244%	0.868
C17:1 - Heptadecaenoic	2.80	0.27	4.74	0.38	0.002	**0.25%**	0.01278%	**0.30%**	0.00922%	0.019	1.86	0.45630072	2.20	0.31572185	0.566	**0.23%**	0.049353%	**0.33%**	0.014491%	0.078
C18:1(n-9) - Oleic	310.16	15.70	408.56	15.28	0.002	**28.29%**	0.75215%	**26.09%**	0.63451%	0.057	284.32	25.540741	240.22	21.4074887	0.230	**38.39%**	0.562447%	**37.42%**	1.546898%	0.676
C20:1(n-9) - Eicosenoic	9.48	1.56	3.80	0.41	0.010	**0.87%**	0.13629%	**0.24%**	0.01526%	0.002	6.21	1.0495593	4.46	0.76459089	0.226	**0.80%**	0.032586%	**0.67%**	0.037482%	0.110
C20:3(n-9) - Mead	1.34	0.13	1.12	0.15	0.288	**0.12%**	0.01184%	**0.07%**	0.00678%	0.005	0.20	0.02650522	0.16	0.03130611	0.325	**0.03%**	0.000598%	**0.02%**	0.001884%	0.155
C22:1(n-9) - Erucic	0.65	0.12	0.14	0.01	0.003	**0.06%**	0.01074%	**0.01%**	0.00043%	0.002	0.21	0.03740123	0.14	0.02728316	0.176	**0.03%**	0.001113%	**0.02%**	0.001657%	0.074
C24:1(n-9) - Nervonic	0.72	0.05	0.78	0.04	0.362	**0.07%**	0.00644%	**0.05%**	0.00176%	0.042	0.16	0.01666818	0.15	0.03080184	0.770	**0.02%**	0.001346%	**0.02%**	0.002417%	0.846
C26:1(n-9) - Nervonic	0.00	0.00	0.01	0.00	0.000	**0.00%**	0.00002%	**0.00%**	0.00001%	0.001	0.01	0.00118466	0.01	0.00098035	0.330	**0.00%**	0.000072%	**0.00%**	0.000072%	0.314
C14:1 - Myristoleic	0.09	0.03	0.27	0.04	0.003	**0.01%**	0.00189%	**0.02%**	0.00156%	0.007	0.13	0.0184071	0.43	0.09597507	0.007	**0.02%**	0.000769%	**0.06%**	0.009052%	0.000
C16:1(n-7) - Palmitoleic	30.54	5.18	69.22	7.16	0.002	**2.72%**	0.34599%	**4.36%**	0.23860%	0.005	24.80	3.89312471	36.06	5.69897638	0.128	**3.20%**	0.127407%	**5.42%**	0.370022%	0.000
C18:1(n-7) - Vaccenic	24.99	2.61	26.43	2.43	0.701	**2.27%**	0.19631%	**1.67%**	0.07538%	0.026	21.85	3.49138473	16.56	2.61152013	0.272	**2.81%**	0.101260%	**2.48%**	0.106578%	0.099
C18:1(n-5)	0.31	0.06	0.22	0.04	0.248	**0.03%**	0.00494%	**0.01%**	0.00229%	0.037	0.07	0.00642565	0.10	0.02422916	0.317	**0.01%**	0.000324%	**0.01%**	0.002796%	0.139
C20:3(n-7)	0.31	0.03	0.54	0.07	0.014	**0.03%**	0.00162%	**0.03%**	0.00349%	0.186	0.06	0.00787352	0.10	0.01921108	0.089	**0.01%**	0.000278%	**0.01%**	0.001467%	0.001
C14:2 - Myristolenic	0.10	0.09	0.70	0.09	0.001	**0.01%**	0.00696%	**0.04%**	0.00371%	0.002	0.01	0.00138113	0.03	0.00693986	0.008	**0.00%**	0.000059%	**0.01%**	0.000530%	0.000
C16:2 - Palmitolenic	1.45	0.71	6.53	0.61	0.000	**0.12%**	0.05508%	**0.41%**	0.02049%	0.001	0.64	0.11041326	0.67	0.1217345	0.845	**0.08%**	0.003801%	**0.10%**	0.006647%	0.057
C18:2(n-6) - Linoleic	210.79	10.67	310.70	17.91	0.001	**19.23%**	0.34950%	**19.73%**	0.11901%	0.237	179.61	23.1676577	154.42	19.987566	0.442	**23.57%**	0.162580%	**23.52%**	0.401715%	0.938
C18:2(N-6)Conj - Rumenic	0.44	0.05	0.71	0.08	0.016	**0.04%**	0.00276%	**0.04%**	0.00380%	0.310	0.54	0.08622022	0.51	0.0826964	0.836	**0.07%**	0.003464%	**0.08%**	0.004396%	0.307
C18:3(n-6) - Gamma Linolenic	12.14	7.22	63.56	7.92	0.001	**1.03%**	0.56788%	**3.98%**	0.37048%	0.003	0.40	0.06302432	1.85	0.41464224	0.004	**0.05%**	0.000797%	**0.28%**	0.036756%	0.000
C20:2(n-6) - Eicosadienoic	4.74	0.32	4.61	0.48	0.824	**0.43%**	0.02739%	**0.29%**	0.01799%	0.002	3.68	0.5436545	4.25	0.90325473	0.586	**0.48%**	0.009387%	**0.63%**	0.059936%	0.031
C20:3(n-6) - Dihomo-g-linolenic	12.67	1.56	5.39	0.76	0.003	**1.18%**	0.15809%	**0.34%**	0.04304%	0.001	1.39	0.21738761	1.28	0.30718301	0.769	**0.18%**	0.009217%	**0.19%**	0.021815%	0.775
C20:4(n-6) - Arachidonic	45.37	2.05	54.96	4.34	0.063	**4.20%**	0.32560%	**3.48%**	0.13851%	0.092	2.28	0.23223422	3.72	0.77189244	0.083	**0.31%**	0.017444%	**0.55%**	0.057306%	0.002
C22:2(n-6) - Docosadienoic	0.15	0.02	0.05	0.00	0.003	**0.01%**	0.00217%	**0.00%**	0.00009%	0.002	0.06	0.00928523	0.05	0.00943337	0.464	**0.01%**	0.000268%	**0.01%**	0.000592%	0.648
C22:4(n-6) - Adrenic	4.76	0.49	3.89	0.55	0.266	**0.44%**	0.05369%	**0.24%**	0.02439%	0.012	0.43	0.05167565	0.51	0.12938186	0.580	**0.06%**	0.003318%	**0.07%**	0.009819%	0.115
C22:5(n-6) - Docosapentaenoic	1.61	0.19	1.62	0.26	0.982	**0.15%**	0.02051%	**0.10%**	0.01236%	0.088	0.09	0.01333967	0.08	0.02686837	0.802	**0.01%**	0.001291%	**0.01%**	0.002312%	0.925
C24:2	0.07	0.00	0.11	0.01	0.000	**0.01%**	0.00034%	**0.01%**	0.00035%	0.466	0.04	0.00355734	0.04	0.00795877	0.911	**0.01%**	0.000333%	**0.01%**	0.000602%	0.673
C26:2 - Hexacosadienoic	0.00	0.00	0.00	0.00	0.036	**0.00%**	0.00002%	**0.00%**	0.00002%	0.435	0.00	0.00023046	0.00	0.0003644	0.297	**0.00%**	0.000014%	**0.00%**	0.000035%	0.380
C18:3(n-3) - Alpha Linolenic	8.45	0.92	14.99	1.79	0.008	**0.77%**	0.06771%	**0.94%**	0.06938%	0.112	6.67	0.99776972	8.59	1.74228803	0.342	**0.86%**	0.025188%	**1.28%**	0.126519%	0.011
C20:5(n-3) - Eicosapentaenoic	2.90	0.76	7.75	0.77	0.002	**0.26%**	0.05955%	**0.49%**	0.02570%	0.010	0.06	0.00861177	0.18	0.03898125	0.010	**0.01%**	0.000238%	**0.03%**	0.003362%	0.000
C22:5(n-3)	7.57	2.25	21.05	2.20	0.002	**0.67%**	0.16872%	**1.32%**	0.08422%	0.010	0.27	0.03530219	0.72	0.1872254	0.030	**0.04%**	0.001214%	**0.11%**	0.015089%	0.001
C22:6(n-3) - Docosahexanoic	26.72	2.13	26.79	1.72	0.981	**2.48%**	0.25782%	**1.71%**	0.07685%	0.027	0.54	0.06305747	0.62	0.18201812	0.667	**0.07%**	0.003434%	**0.09%**	0.014872%	0.266
Pristanic	0.00	0.00	0.00	0.00	0.117	**0.00%**	0.00004%	**0.00%**	0.00001%	0.762	0.00	0.00015069	0.00	0.00010318	0.623	**0.00%**	0.000020%	**0.00%**	0.000040%	0.344
Phytanic	0.00	0.00	0.01	0.00	0.010	**0.00%**	0.00003%	**0.00%**	0.00003%	0.462	0.00	0.00024315	0.00	0.0004435	0.052	**0.00%**	0.000024%	**0.00%**	0.000041%	0.002
C16:1 trans	1.42	0.45	4.66	0.44	0.001	**0.12%**	0.03400%	**0.29%**	0.01474%	0.002	0.57	0.09549802	0.51	0.0958322	0.659	**0.07%**	0.002725%	**0.08%**	0.008249%	0.814
C18:1 trans	3.22	0.39	6.19	0.61	0.002	**0.29%**	0.02268%	**0.39%**	0.02168%	0.012	4.09	0.63468114	3.50	0.53375793	0.504	**0.53%**	0.015799%	**0.53%**	0.015999%	0.974
C18:2 trans	2.71	0.98	8.44	1.00	0.003	**0.24%**	0.07515%	**0.53%**	0.04839%	0.013	1.46	0.23608368	1.23	0.20037808	0.481	**0.19%**	0.007194%	**0.18%**	0.013077%	0.798
total saturated FA	334.71	13.24	440.42	16.72	0.001	**30.60%**	0.55209%	**28.11%**	0.56490%	0.012	202.75	25.9230447	162.74	23.7788768	0.293	**26.63%**	0.365743%	**24.56%**	0.780800%	0.078
total w9(n-9) FA	358.64	19.75	493.17	20.98	0.001	**32.66%**	0.79821%	**31.45%**	0.56230%	0.266	302.77	28.8784986	255.56	23.9466459	0.252	**40.73%**	0.476991%	**39.71%**	1.465947%	0.637
total w5 +w7	56.25	5.98	96.68	9.66	0.005	**5.06%**	0.33116%	**6.09%**	0.31269%	0.053	46.91	7.38745756	53.25	8.32248473	0.582	**6.05%**	0.208607%	**7.99%**	0.445884%	0.005
total w6(n-6) FA	294.29	16.23	452.83	31.11	0.001	**26.86%**	0.78895%	**28.68%**	0.56313%	0.104	189.16	24.4471281	167.42	22.5039426	0.536	**24.82%**	0.179705%	**25.44%**	0.467324%	0.387
total w3(n-3) FA	45.64	3.82	70.58	6.10	0.006	**4.18%**	0.32139%	**4.46%**	0.17415%	0.492	7.54	1.09977142	10.11	2.13959623	0.290	**0.98%**	0.028479%	**1.50%**	0.155597%	0.008
total branched FA	0.01	0.00	0.01	0.00	0.014	**0.00%**	0.00007%	**0.00%**	0.00004%	0.540	0.00	0.00035689	0.00	0.00052518	0.089	**0.00%**	0.000038%	**0.00%**	0.000070%	0.014
total trans FA	7.35	1.78	19.28	1.99	0.002	**0.65%**	0.12971%	**1.21%**	0.08090%	0.007	6.13	0.96506659	5.24	0.81454654	0.510	**0.79%**	0.024725%	**0.79%**	0.033347%	0.955
sum	1096.87	52.30	1572.97	84.55	0.001						755.27	88.0603744	654.32	80.4644326	0.427					
total FA ug/mgprotein																				
total sat VLCFA	0.66	0.04	0.88	0.02	0.001						0.19	0.01844853	0.14	0.01668351	0.085					
AA/DHA	1.73	0.11	2.05	0.11	0.070						1.73	0.10574865	2.05	0.11117061	0.070					
16/16:1	8.58	0.90	4.53	0.27	0.003						16.25	1.11535391	15.77	0.98901069	0.762					
18/18:1	0.18	0.01	0.19	0.00	0.166						0.15	0.01088118	0.11	0.00824864	0.023					