Figure S1

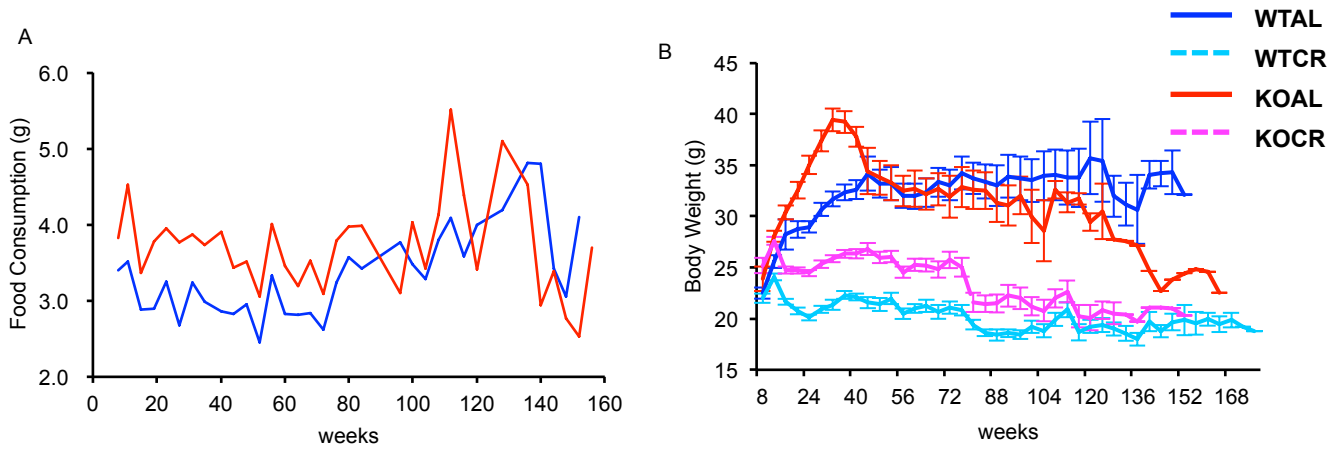
A
Food Consumption (g)
6.0
5.0
4.0
3.0
2.0
0
20
40
60
80
100
120
140
160
weeks
B
Body Weight (g)
45
40
35
30
25
20
15
8
24
40
56
72
88
104
120
136
152
168
weeks
WTAL
WTCR
KOAL
KOCR

Figure S2

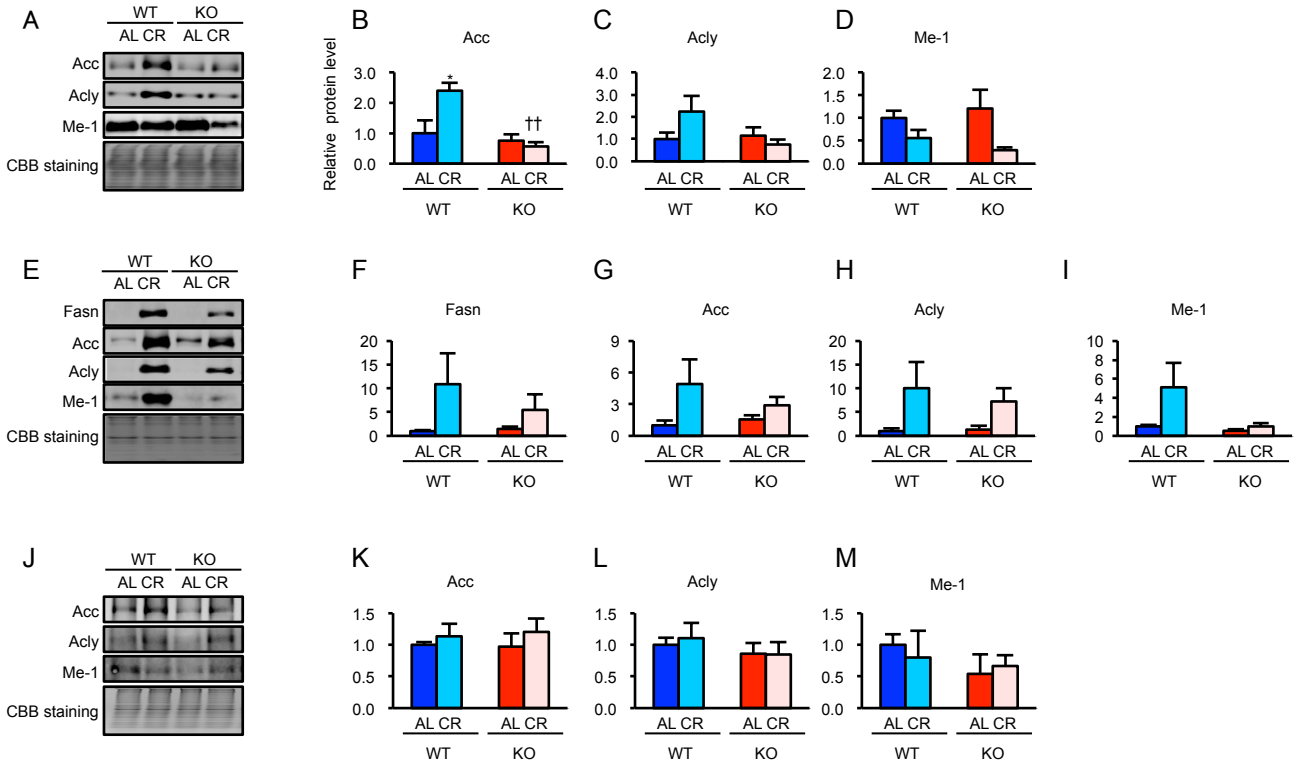
A
WT
KO
AL CR
AL CR
Acc
Acly
Me-1
CBB staining
B
Acc
Relative protein level
3.0
2.0
1.0
0.0
*
††
AL CR
AL CR
WT
KO
C
Acly
4.0
3.0
2.0
1.0
0.0
D
Me-1
2.0
1.5
1.0
0.5
0.0
E
Fasn
F
G
H
I
J
K
L
M

Figure S3

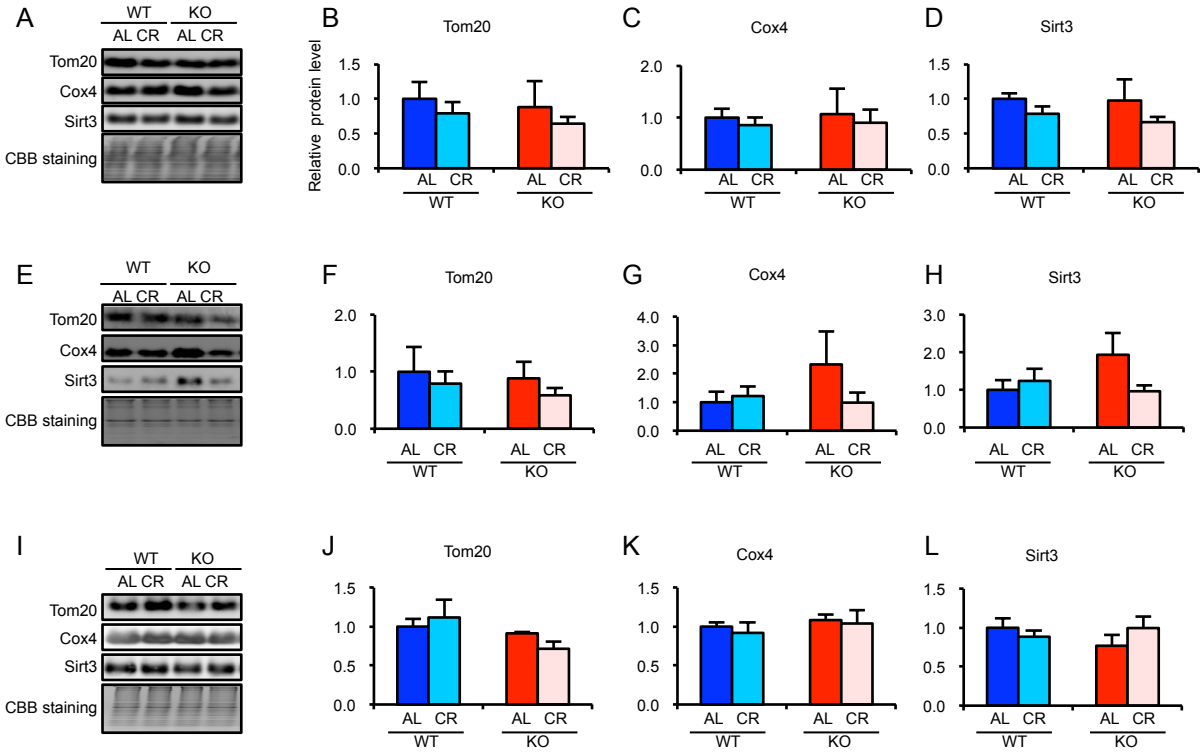
A
WT
KO
AL CR AL CR
Tom20
Cox4
Sirt3
CBB staining
B
Tom20
Relative protein level
1.5
1.0
0.5
0.0
AL CR AL CR
WT KO
C
Cox4
2.0
1.0
0.0
AL CR AL CR
WT KO
D
Sirt3
1.5
1.0
0.5
0.0
AL CR AL CR
WT KO
E
WT
KO
AL CR AL CR
Tom20
Cox4
Sirt3
CBB staining
F
Tom20
2.0
1.0
0.0
AL CR AL CR
WT KO
G
Cox4
4.0
3.0
2.0
1.0
0.0
AL CR AL CR
WT KO
H
Sirt3
3.0
2.0
1.0
0.0
AL CR AL CR
WT KO
I
WT
KO
AL CR AL CR
Tom20
Cox4
Sirt3
CBB staining
J
Tom20
1.5
1.0
0.5
0.0
AL CR AL CR
WT KO
K
Cox4
1.5
1.0
0.5
0.0
AL CR AL CR
WT KO
L
Sirt3
1.5
1.0
0.5
0.0
AL CR AL CR
WT KO

Figure S4

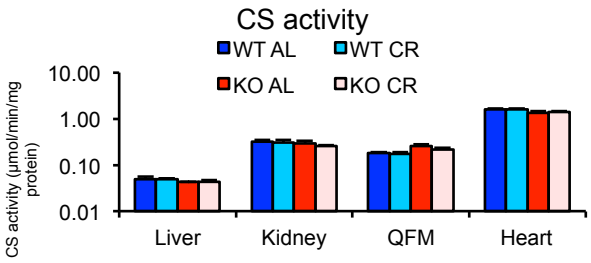
CS activity
WT AL
WT CR
KO AL
KO CR
CS activity (µmol/min/mg protein)
10.00
1.00
0.10
0.01
Liver
Kidney
QFM
Heart

Figure S5

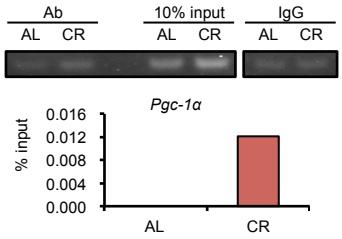
Ab
10% input
IgG
AL
CR
AL
CR
AL
CR
Pgc-1α
% input
0.016
0.012
0.008
0.004
0.000
AL
CR

Figure S6

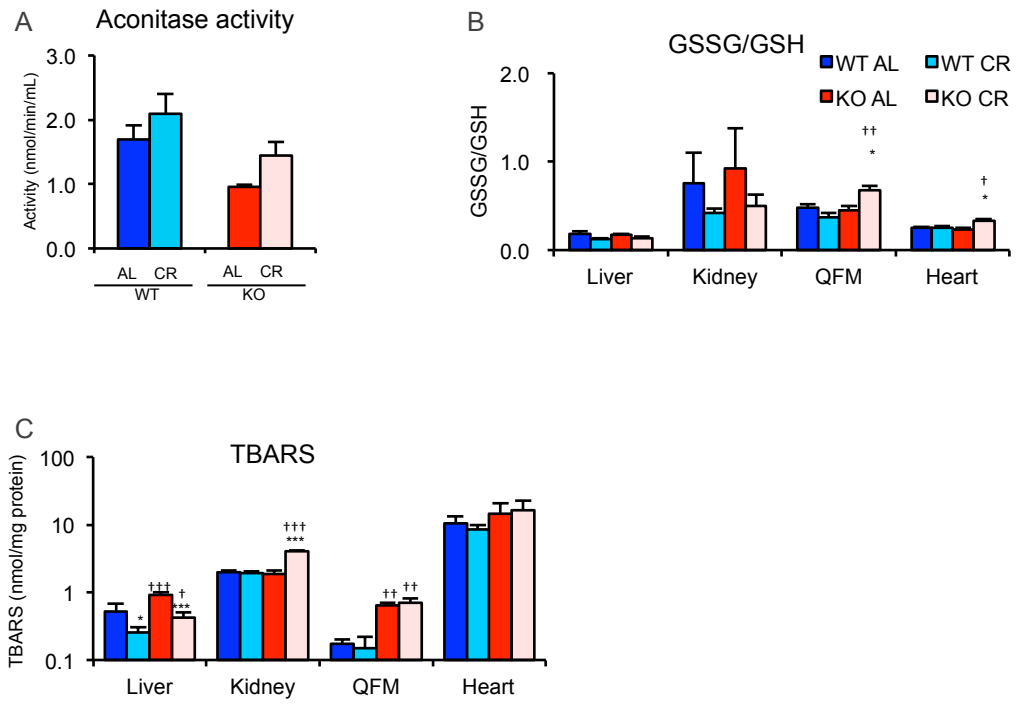
A
Aconitase activity
Activity (nmol/min/mL)
3.0
2.0
1.0
0.0
AL CR
WT
AL CR
KO
B
GSSG/GSH
WT AL
WT CR
KO AL
KO CR
GSSG/GSH
2.0
1.0
0.0
Liver
Kidney
QFM
Heart
C
TBARS
TBARS (nmol/mg protein)
100
10
1
0.1
Liver
Kidney
QFM
Heart

Figure S7

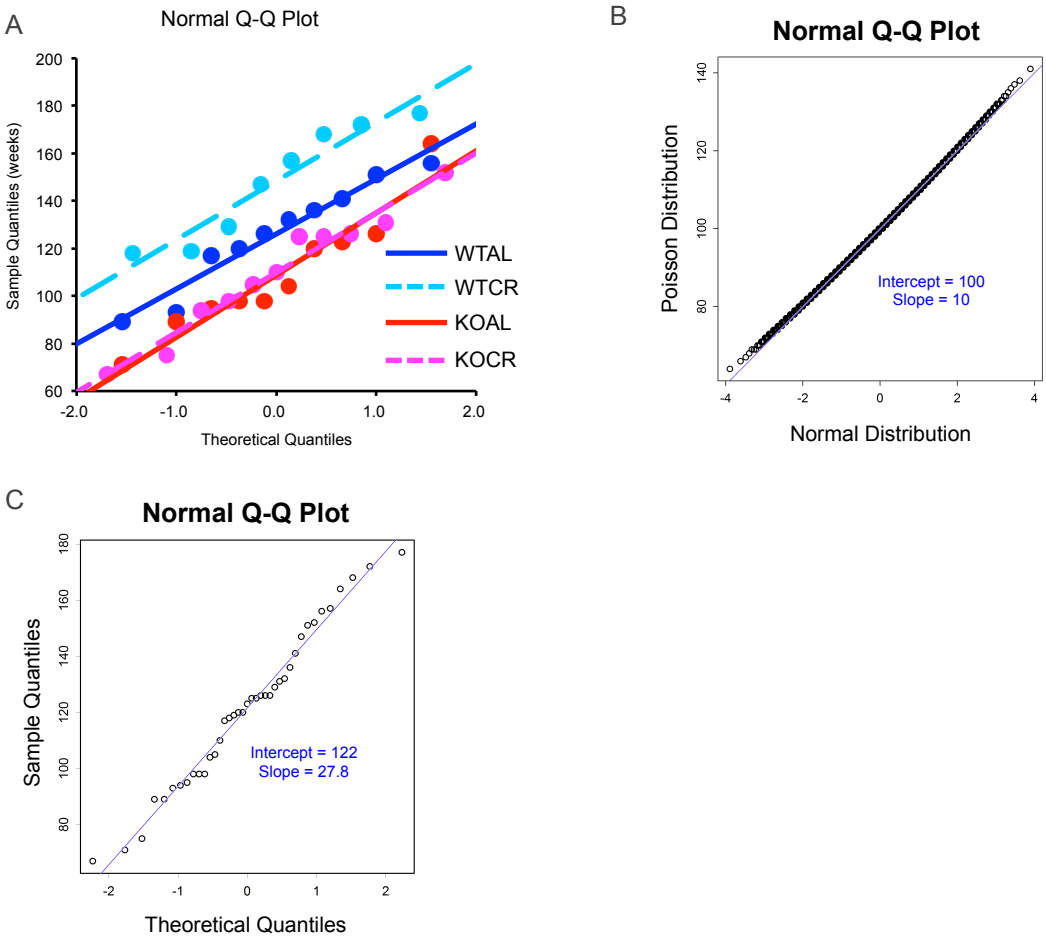
A
Normal Q-Q Plot
Sample Quantiles (weeks)
Theoretical Quantiles
WTAL
WTCR
KOAL
KOCR
B
Normal Q-Q Plot
Poisson Distribution
Normal Distribution
Intercept = 100
Slope = 10
C
Normal Q-Q Plot
Sample Quantiles
Theoretical Quantiles
Intercept = 122
Slope = 27.8

Table S1

Body and tissue weight		WT		KO	
		AL	CR	AL	CR
Body weight	(g)	29.97 ± 0.89	21.78 ± 0.53 *	37.27 ± 1.81 †	26.11 ± 0.87
Liver	(g)	1.018 ± 0.035	0.821 ± 0.024	1.358 ± 0.073 †	1.038 ± 0.037 *†
WAT	(g)	0.915 ± 0.105	0.230 ± 0.027 *	1.227 ± 0.152	0.327 ± 0.031 *
BAT	(g)	0.099 ± 0.008	0.078 ± 0.006	0.155 ± 0.025	0.086 ± 0.009 *
Heart	(g)	0.146 ± 0.004	0.119 ± 0.003	0.198 ± 0.010 †	0.150 ± 0.007 *†
Kidney	(g)	0.197 ± 0.006	0.144 ± 0.003 *	0.235 ± 0.012 †	0.156 ± 0.008 *

Each value represents the means ± S.E.M. *; $p<0.05$ vs. AL, †; $p<0.05$ vs WT analyzed by Tukey's test

Table S2

WTAL		WTCR		KOAL		KOCR	
Mouse	Age at Death (Weeks)	Mouse	Age at Death (Weeks)	Mouse	Age at Death (Weeks)	Mouse	Age at Death (Weeks)
1	89	1	118	1	71	1	67
2	93	2	119	2	89	2	75
3	117	3	129	3	95	3	94
4	120	4	147	4	98	4	98
5	126	5	157	5	104	5	105
6	132	6	168	6	120	6	110
7	136	7	172	7	123	7	125
8	141	8	177	8	126	8	125
9	151			9	152	9	126
10	156			10	164	10	131
						11	152