

SUPPLEMENTARY MATERIAL

Table S1. Expression levels of genes involved in insulin/IGF-1 signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR	
		r	Log FC	p	Log FC	p	Log FC	p	Log FC
4E-BP1	<i>Eif4ebp1</i>	-0.227	-0.055	0.711	0.056	0.689	-0.305	0.043	-0.295
ACLY	<i>Acly</i>	-0.339	-1.654	0.002	-1.324	0.007	-0.787	0.124	-1.310
AFX	<i>Foxo4</i>	-0.308	-0.115	0.519	-0.305	0.073	-0.185	0.301	-0.261
BAD	<i>Bad</i>	0.476	-0.024	0.925	0.089	0.711	0.240	0.339	0.415
c-FOS	<i>Fos</i>	0.121	-1.152	0.104	0.271	0.656	-0.193	0.770	0.217
c-JUN	<i>Jun</i>	-0.025	-0.027	0.943	0.834	0.017	-0.052	0.891	-0.014
c-RAF	<i>Raf1</i>	-0.299	-0.165	0.253	-0.215	0.116	-0.278	0.055	-0.247
C3G	<i>Rapgef1</i>	0.321	0.178	0.169	0.258	0.036	0.109	0.400	0.215
CASP9	<i>Casp9</i>	-0.257	-0.279	0.109	-0.157	0.336	-0.164	0.344	-0.471
CBL	<i>Cbl</i>	0.217	-0.226	0.512	0.034	0.916	0.044	0.897	0.089
CIP4	<i>Trip10</i>	0.217	0.211	0.281	0.383	0.037	0.256	0.190	0.281
eIF4E	<i>Eif4e</i>	-0.131	-0.018	0.898	-0.044	0.746	0.139	0.325	0.069
ELK-1	<i>Elk1</i>	-0.377	-0.063	0.808	0.045	0.852	-0.388	0.142	-0.412
FAK	<i>Ptk2</i>	-0.093	0.133	0.357	0.032	0.819	-0.038	0.797	0.021
FKHRL1	<i>Foxo3</i>	0.168	-0.019	0.924	-0.241	0.220	-0.120	0.562	0.015
FYN	<i>Fyn</i>	-0.297	0.002	0.993	0.118	0.519	0.012	0.953	-0.240
GAB1	<i>Gab1</i>	0.370	0.234	0.149	0.187	0.227	0.188	0.248	0.200
GLUT4	<i>Slc2a4</i>	0.168	-1.636	0.013	-0.688	0.244	0.257	0.671	-0.059
GRB10	<i>Grb10</i>	-0.142	0.242	0.536	0.444	0.231	-0.550	0.178	-0.432
GRB2	<i>Grb2</i>	-0.346	-0.098	0.434	0.003	0.982	-0.104	0.405	-0.123
IGF-1	<i>Igf1</i>	0.160	0.284	0.223	-0.005	0.983	0.321	0.169	0.053
IGF1R	<i>Igflr</i>	0.293	0.371	0.297	0.573	0.088	0.257	0.476	0.693
INSR	<i>Insr</i>	0.507	0.106	0.572	-0.076	0.670	0.153	0.414	0.245
IRS1	<i>Irs1</i>	0.120	-0.229	0.408	-0.191	0.466	-0.129	0.639	0.412
JNK1	<i>Mapk8</i>	0.392	0.183	0.239	0.051	0.730	0.211	0.173	0.312
LAR	<i>Ptprf</i>	-0.623	-0.293	0.176	-0.325	0.113	-0.615	0.005	-0.594
LIPE	<i>Lipe</i>	-0.141	-0.183	0.446	-0.270	0.235	-0.265	0.271	-0.431
mTOR	<i>Mtor</i>	-0.119	0.060	0.704	0.159	0.289	0.043	0.787	-0.122
NCK	<i>Nck1</i>	-0.176	-0.094	0.564	-0.169	0.274	-0.205	0.212	-0.137
PDE3B	<i>Pde3b</i>	0.488	0.236	0.276	0.162	0.432	0.418	0.053	0.415
PDK1	<i>Pdpk1</i>	0.279	0.092	0.564	0.054	0.723	-0.018	0.910	0.220
PTEN	<i>Pten</i>	0.131	0.001	0.995	-0.097	0.595	0.069	0.717	0.041
PTP1B	<i>Ptpn1</i>	0.112	0.040	0.799	0.261	0.075	0.112	0.472	0.153
PXN	<i>Pxn</i>	0.248	-0.126	0.367	0.059	0.652	-0.112	0.424	0.054
RAPTOR	<i>Rptor</i>	-0.214	-0.063	0.667	-0.104	0.450	-0.167	0.254	-0.175
RAS									
GAP	<i>Rasa1</i>	0.001	0.057	0.695	-0.090	0.516	-0.034	0.818	-0.048
SGK	<i>Sgk1</i>	0.108	0.275	0.330	0.580	0.030	0.500	0.075	0.479
SHC	<i>Shc1</i>	-0.180	-0.091	0.512	0.026	0.845	-0.072	0.607	-0.258
SHP2	<i>Ptpn11</i>	0.124	0.155	0.295	0.114	0.418	0.045	0.764	0.179
SOCS3	<i>Socs3</i>	-0.221	-0.655	0.148	-0.046	0.913	-0.919	0.045	-0.677
SRF	<i>Srf</i>	-0.308	-0.259	0.175	-0.140	0.434	-0.432	0.026	-0.155
STAT3	<i>Stat3</i>	0.227	-0.364	0.151	0.348	0.142	0.043	0.862	0.271
STX4	<i>Stx4a</i>	-0.442	-0.455	0.021	-0.771	0.000	-0.361	0.065	-0.572
SYNIP	<i>Stxbp4</i>	-0.129	-0.026	0.941	-0.099	0.763	-0.295	0.406	-0.473

TC10	<i>Rhoq</i>	0.483	0.240	0.171	0.245	0.143	0.319	0.068	0.428	0.006
TSC1	<i>Tsc1</i>	0.205	-0.028	0.846	-0.272	0.047	0.014	0.922	0.046	0.713
TSC2	<i>Tsc2</i>	0.011	0.078	0.581	0.119	0.371	0.094	0.503	0.058	0.643
VAMP2	<i>Vamp2</i>	0.381	-0.001	0.992	-0.017	0.882	0.035	0.774	0.032	0.770

Table S2. Expression levels of genes involved in mTOR signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR		
		r	logFC	p	logFC	p	logFC	p	logFC	
4EBP	<i>Eif4ebp1</i>	-0.227	-0.055	0.711	0.056	0.689	-0.305	0.043	-0.295	0.026
ATG13	<i>Atg13</i>	-0.003	-0.132	0.372	-0.241	0.088	-0.143	0.335	-0.097	0.458
DGKζ	<i>Dgkz</i>	0.070	0.067	0.655	0.249	0.080	0.041	0.784	0.090	0.499
eIF4B	<i>Eif4b</i>	-0.188	-0.026	0.882	-0.097	0.566	-0.054	0.761	-0.245	0.120
eIF4E	<i>Eif4e</i>	-0.131	-0.018	0.898	-0.044	0.746	0.139	0.325	0.069	0.582
FKBP1	<i>Fkbp1a</i>	-0.007	0.028	0.861	0.289	0.054	0.119	0.454	0.089	0.528
GBL	<i>Mlst8</i>	-0.440	0.244	0.367	0.231	0.369	-0.230	0.413	-0.196	0.428
HIF1α	<i>Hif1a</i>	0.060	0.008	0.954	-0.089	0.502	-0.113	0.421	-0.054	0.661
INSR	<i>Insr</i>	0.507	0.106	0.572	-0.076	0.670	0.153	0.414	0.245	0.141
IRS1	<i>Irs1</i>	0.120	-0.229	0.408	-0.191	0.466	-0.129	0.639	0.412	0.089
LKB1	<i>Stk11</i>	-0.353	0.037	0.776	-0.073	0.558	-0.158	0.232	-0.165	0.159
mTOR	<i>Mtor</i>	-0.119	0.060	0.704	0.159	0.289	0.043	0.787	-0.122	0.384
p70S6K	<i>Rps6kb1</i>	0.112	0.098	0.566	-0.043	0.791	0.022	0.899	0.131	0.384
PDK1	<i>Pdpk1</i>	0.279	0.092	0.564	0.054	0.723	-0.018	0.910	0.220	0.120
PKCα	<i>Prkca</i>	0.269	0.134	0.509	0.079	0.681	0.151	0.455	0.296	0.099
PRAS40	<i>Akt1s1</i>	-0.256	-0.189	0.199	-0.139	0.315	-0.208	0.159	-0.257	0.048
RAC	<i>Rac1</i>	-0.077	-0.032	0.801	-0.003	0.981	-0.037	0.773	-0.059	0.604
RAPTOR	<i>Rptor</i>	-0.214	-0.063	0.667	-0.104	0.450	-0.167	0.254	-0.175	0.176
REDD1	<i>Ddit4</i>	0.446	0.176	0.752	0.840	0.106	0.954	0.078	1.777	0.000
RHEB	<i>Rheb</i>	0.222	0.117	0.447	0.184	0.205	0.092	0.548	0.222	0.103
RICTOR	<i>Rictor</i>	0.328	0.312	0.161	0.231	0.276	0.270	0.226	0.332	0.094
RPS6	<i>Rps6</i>	0.487	-0.032	0.858	0.035	0.839	0.163	0.364	0.268	0.093
SIN1	<i>Mapkap1</i>	-0.318	-0.018	0.889	-0.119	0.345	-0.118	0.375	-0.131	0.267
TSC1	<i>Tsc1</i>	0.205	-0.028	0.846	-0.272	0.047	0.014	0.922	0.046	0.713
TSC2	<i>Tsc2</i>	0.011	0.078	0.581	0.119	0.371	0.094	0.503	0.058	0.643
ULK1	<i>Ulk1</i>	-0.040	-0.384	0.029	-0.214	0.197	-0.290	0.098	-0.103	0.504

Table S3. Expression levels of genes involved in NF-κB signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR		
		r	logFC	p	logFC	p	logFC	p	logFC	
β-TrCP	<i>Btrc</i>	-0.112	-0.003	0.986	0.009	0.958	0.020	0.913	-0.157	0.337
A20	<i>Tnfaip3</i>	-0.100	0.218	0.582	0.351	0.349	-0.399	0.334	-0.311	0.389
ABIN-1	<i>Tnip1</i>	-0.219	-0.115	0.764	0.330	0.358	-0.569	0.146	-0.645	0.059
Bcl10	<i>Bcl10</i>	0.106	-0.238	0.314	0.110	0.616	0.101	0.663	0.007	0.975
BIMP1	<i>Card10</i>	0.062	0.207	0.354	0.318	0.132	0.231	0.302	0.120	0.548
c-RAF	<i>Raf1</i>	-0.299	-0.165	0.253	-0.215	0.116	-0.278	0.055	-0.247	0.052

CARD11	<i>Card11</i>	-0.294	-0.096	0.883	-0.445	0.479	-0.963	0.166	-1.573	0.013		
Caspase8	<i>Casp8</i>	0.075	0.093	0.508	0.039	0.770	0.047	0.737	-0.072	0.568		
CCR5	<i>Ccr5</i>	-0.087	0.160	0.608	0.536	0.065	0.350	0.258	0.112	0.687		
CD4	<i>Cd4</i>	-0.550	-0.161	0.797	-0.779	0.204	-2.064	0.005	-1.509	0.011		
Cot	<i>Map3k8</i>	0.125	-0.422	0.256	-0.131	0.703	-0.368	0.321	-0.050	0.877		
FADD	<i>Fadd</i>	-0.480	-0.293	0.095	-0.301	0.070	-0.415	0.019	-0.565	0.000		
GSK-3β	<i>Gsk3b</i>	0.117	0.144	0.273	0.063	0.614	0.006	0.966	0.095	0.416		
HVEM	<i>Tnfrsf14</i>	-0.030	0.162	0.622	0.339	0.270	0.186	0.572	-0.191	0.528		
IKKα	<i>Chuk</i>	0.065	0.152	0.458	-0.183	0.349	0.035	0.865	-0.021	0.908		
IKKβ	<i>Ikbkb</i>	-0.137	-0.011	0.926	-0.068	0.535	-0.054	0.646	-0.124	0.230		
IKKγ	<i>Ikbkg</i>	-0.099	0.213	0.163	0.202	0.165	-0.021	0.892	0.072	0.599		
IRAK-M	<i>Irak3</i>	0.031	-0.275	0.389	-0.126	0.671	-0.430	0.187	0.047	0.865		
JNK1	<i>Mapk8</i>	0.392	0.183	0.239	0.051	0.730	0.211	0.173	0.312	0.023		
LTBR	<i>Ltbr</i>	-0.028	-0.067	0.630	0.041	0.755	-0.107	0.442	-0.024	0.844		
MALT1	<i>Malt1</i>	-0.026	0.070	0.704	-0.135	0.446	-0.024	0.899	-0.040	0.808		
MEKK1	<i>Map3k1</i>	-0.017	0.233	0.317	0.167	0.452	-0.016	0.946	0.145	0.486		
MYD88	<i>Myd88</i>	0.040	-0.245	0.162	-0.095	0.564	-0.174	0.318	0.009	0.954		
NAK	<i>Tbk1</i>	0.311	-0.048	0.771	-0.089	0.570	-0.024	0.883	0.254	0.079		
NAP1	<i>Azi2</i>	0.566	0.166	0.283	-0.040	0.784	0.281	0.067	0.236	0.085		
NF-κB1	<i>Nfkb1</i>	-0.133	0.105	0.571	-0.092	0.605	-0.161	0.396	-0.100	0.548		
p50												
NF-κB2	<i>Nfkb2</i>	-0.234	0.203	0.592	0.479	0.182	-0.394	0.313	-0.734	0.034		
p100												
NGF	<i>Ngf</i>	-0.225	0.430	0.558	0.679	0.333	-0.142	0.850	-0.245	0.711		
NIK	<i>Map3k14</i>	0.156	0.511	0.241	1.164	0.004	0.402	0.361	0.667	0.088		
p65/RelA	<i>Rela</i>	-0.300	-0.150	0.371	-0.134	0.396	-0.409	0.016	-0.292	0.049		
PEL1	<i>Peli1</i>	0.206	0.022	0.896	-0.185	0.247	-0.106	0.527	0.025	0.866		
PKCζ	<i>Prkcz</i>	-0.322	-0.132	0.538	-0.358	0.081	-0.368	0.089	-0.566	0.003		
PKR	<i>Eif2ak2</i>	-0.007	0.058	0.719	-0.039	0.801	0.057	0.727	0.084	0.559		
PLCy2	<i>Plcg2</i>	-0.289	0.043	0.917	0.196	0.619	-0.318	0.454	-1.239	0.001		
RelB	<i>Relb</i>	-0.255	0.435	0.434	0.567	0.283	-0.477	0.414	-1.635	0.003		
RIP	<i>Ripk1</i>	0.125	0.025	0.864	0.012	0.927	-0.139	0.336	0.063	0.619		
TAB1	<i>Tab1</i>	0.100	0.458	0.179	0.301	0.358	0.341	0.323	0.388	0.207		
TANK	<i>Tank</i>	-0.150	0.138	0.360	-0.049	0.734	-0.178	0.250	0.035	0.793		
TBP	<i>Tbp</i>	0.368	0.146	0.476	0.122	0.531	0.052	0.803	0.443	0.014		
TGF-α	<i>Tgfa</i>	-0.169	-0.020	0.907	-0.033	0.844	-0.340	0.057	-0.297	0.058		
TIRAP	<i>Tirap</i>	-0.481	-0.091	0.608	-0.187	0.267	-0.044	0.804	-0.222	0.157		
TRADD	<i>Tradd</i>	-0.114	-0.526	0.016	-0.135	0.494	-0.100	0.631	-0.240	0.198		
TRAF2	<i>Traf2</i>	-0.004	0.326	0.163	0.400	0.071	0.112	0.638	0.206	0.330		
TRAF6	<i>Traf6</i>	0.420	0.135	0.414	0.082	0.601	0.150	0.365	0.383	0.009		
TTRAP	<i>Tdp2</i>	0.498	0.012	0.949	0.050	0.787	0.382	0.047	0.288	0.094		
UBE2N	<i>Ube2n</i>	-0.386	-0.143	0.276	-0.157	0.209	-0.223	0.092	-0.120	0.302		
UBE2V1	<i>Ube2v1</i>	-0.301	-0.096	0.446	0.027	0.818	-0.069	0.584	-0.080	0.472		
Zap70	<i>Zap70</i>	-0.169	0.242	0.441	0.624	0.034	0.314	0.316	-0.250	0.381		

Table S4. Expression levels of genes involved in sirtuin signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene symbol	10CR		20CR		30CR		40CR	
		r	logFC	p	logFC	p	logFC	p	logFC
ACADL	<i>Acadl</i>	0.763	0.111	0.612	0.263	0.208	0.468	0.032	0.557
ARNTL	<i>Arntl</i>	-0.105	-1.581	0.038	-1.588	0.026	-1.808	0.020	0.261

BIRC5	<i>Birc5</i>	-0.039	0.321	0.580	1.432	0.008	-0.403	0.507	0.053	0.920
CDKN1A	<i>Cdkn1a</i>	0.055	0.775	0.288	1.702	0.016	-0.253	0.736	1.225	0.066
CPS1	<i>Cps1</i>	0.476	-0.279	0.234	-0.222	0.317	0.030	0.899	0.177	0.392
CRTC2	<i>Crtc2</i>	0.626	0.135	0.439	0.130	0.432	0.220	0.204	0.463	0.003
CTNNB1	<i>Ctnnb1</i>	-0.363	-0.100	0.550	-0.083	0.601	-0.220	0.190	-0.268	0.069
CYC1	<i>Cyc1</i>	0.617	-0.086	0.611	0.020	0.898	0.157	0.349	0.309	0.039
CYCS	<i>Cycs</i>	0.572	0.064	0.782	-0.084	0.702	0.231	0.313	0.523	0.011
E2F1	<i>E2f1</i>	-0.296	0.182	0.629	0.681	0.050	-0.128	0.741	-0.441	0.210
EPAS1	<i>Epas1</i>	0.343	-0.396	0.183	-0.125	0.655	0.108	0.714	0.108	0.678
FOXO1	<i>Foxo1</i>	0.603	0.236	0.302	0.322	0.139	0.382	0.094	0.681	0.001
FOXO3	<i>Foxo3</i>	0.168	-0.019	0.924	-0.241	0.220	-0.120	0.562	0.015	0.933
FOXO4	<i>Foxo4</i>	-0.308	-0.115	0.519	-0.305	0.073	-0.185	0.301	-0.261	0.098
GLUD1	<i>Glud1</i>	0.655	-0.123	0.559	0.047	0.815	0.230	0.271	0.460	0.014
HIF1A	<i>Hif1a</i>	0.060	0.008	0.954	-0.089	0.502	-0.113	0.421	-0.054	0.661
HNF4A	<i>Hnf4a</i>	0.338	-0.104	0.665	0.075	0.744	-0.060	0.802	0.316	0.139
HSF1	<i>Hsf1</i>	0.015	-0.047	0.744	-0.059	0.666	-0.040	0.782	0.012	0.925
IDE	<i>Ide</i>	-0.662	-0.125	0.442	-0.345	0.026	-0.422	0.010	-0.371	0.010
IDH2	<i>Idh2</i>	0.556	0.443	0.099	0.740	0.004	0.818	0.002	0.850	<0.001
MRPL10	<i>Mrpl10</i>	-0.223	-0.127	0.302	0.007	0.949	-0.188	0.131	-0.035	0.747
NDUFA9	<i>Ndufa9</i>	0.506	-0.136	0.385	-0.142	0.340	0.097	0.535	0.240	0.082
NFKB1	<i>Nfkb1</i>	-0.133	0.105	0.571	-0.092	0.605	-0.161	0.396	-0.100	0.548
NFKB2	<i>Nfkb2</i>	-0.234	0.203	0.592	0.479	0.182	-0.394	0.313	-0.734	0.034
NR1H2	<i>Nr1h2</i>	0.381	-0.140	0.341	0.037	0.787	0.101	0.485	0.232	0.069
NR1H3	<i>Nr1h3</i>	-0.540	-0.134	0.458	-0.134	0.432	-0.152	0.397	-0.344	0.030
PARP1	<i>Parp1</i>	-0.363	-0.176	0.288	-0.179	0.252	-0.208	0.209	-0.418	0.004
PER2	<i>Per2</i>	0.724	0.671	0.039	0.828	0.008	1.028	0.002	0.950	0.001
PIP5K1A	<i>Pip5k1a</i>	0.105	-0.069	0.723	0.277	0.121	-0.003	0.988	-0.009	0.960
PIP5K1C	<i>Pip5k1c</i>	-0.120	-0.027	0.840	0.135	0.282	-0.001	0.995	0.049	0.676
PPARA	<i>Ppara</i>	0.257	-0.004	0.987	-0.055	0.811	0.114	0.637	-0.037	0.864
PPARG	<i>Pparg</i>	-0.012	0.249	0.483	0.534	0.113	0.024	0.947	-0.111	0.729
PPARGC1A	<i>Ppargc1a</i>	0.806	-0.172	0.624	0.249	0.452	0.623	0.071	1.064	0.001
PPID	<i>Ppid</i>	-0.654	-0.037	0.856	-0.242	0.208	-0.380	0.063	-0.319	0.074
RARA	<i>Rara</i>	-0.358	0.048	0.765	0.051	0.739	-0.203	0.217	-0.363	0.013
RARB	<i>Rarb</i>	0.370	0.166	0.594	0.802	0.005	0.631	0.037	0.646	0.017
RB1	<i>Rb1</i>	-0.315	0.052	0.757	-0.338	0.039	-0.251	0.146	-0.217	0.153
RBL1	<i>Rbl1</i>	-0.021	0.645	0.161	0.934	0.032	0.086	0.858	-0.011	0.980
RBL2	<i>Rbl2</i>	0.562	0.004	0.983	-0.245	0.127	0.051	0.762	0.252	0.090
RELA	<i>Rela</i>	-0.300	-0.150	0.371	-0.134	0.396	-0.409	0.016	-0.292	0.049
SDHA	<i>Sdha</i>	0.185	-0.084	0.658	-0.239	0.185	0.027	0.886	0.013	0.937
SDHB	<i>Sdhb</i>	0.462	0.127	0.474	-0.026	0.876	0.195	0.271	0.193	0.220
SIRT1	<i>Sirt1</i>	0.214	0.016	0.938	0.066	0.732	-0.119	0.560	0.299	0.092
SIRT2	<i>Sirt2</i>	-0.080	-0.038	0.754	-0.037	0.749	-0.131	0.282	-0.098	0.361
SIRT3	<i>Sirt3</i>	-0.032	0.028	0.890	-0.262	0.174	-0.003	0.988	-0.233	0.192
SIRT4	<i>Sirt4</i>	-0.653	0.037	0.882	-0.299	0.216	-0.638	0.017	-0.499	0.030
SIRT5	<i>Sirt5</i>	-0.297	-0.066	0.770	-0.172	0.422	-0.033	0.884	-0.523	0.010
SIRT6	<i>Sirt6</i>	0.051	0.203	0.561	0.142	0.669	-0.145	0.687	0.035	0.911
SIRT7	<i>Sirt7</i>	-0.501	-0.184	0.248	-0.317	0.037	-0.286	0.074	-0.304	0.031
SLC25A5	<i>Slc25a5</i>	0.732	0.046	0.803	0.165	0.344	0.368	0.044	0.478	0.003
SMAD7	<i>Smad7</i>	0.052	0.229	0.338	0.123	0.588	0.431	0.069	-0.247	0.254
SREBF1	<i>Srebfl</i>	-0.463	-0.260	0.435	-0.102	0.745	-0.343	0.304	-0.914	0.002
SREBF2	<i>Srebf2</i>	0.257	-0.236	0.226	0.115	0.529	0.035	0.855	0.094	0.583
TLE1	<i>Tle1</i>	-0.153	-0.255	0.141	-0.284	0.083	-0.443	0.011	-0.049	0.746
TP53	<i>Trp53</i>	-0.159	0.136	0.551	0.326	0.131	-0.272	0.245	-0.076	0.711

TSC2	<i>Tsc2</i>	0.011	0.078	0.581	0.119	0.371	0.094	0.503	0.058	0.643
TUBA1A	<i>Tuba1a</i>	-0.226	-0.288	0.545	0.102	0.818	-0.756	0.124	-0.799	0.062
TUBA1B	<i>Tuba1b</i>	-0.307	-0.171	0.565	0.169	0.541	-0.311	0.301	-0.530	0.047
TUBA1C	<i>Tuba1c</i>	-0.377	-0.283	0.481	0.108	0.774	-0.693	0.090	-0.688	0.053
TUBA4A	<i>Tuba4a</i>	-0.595	-0.502	0.077	-0.665	0.014	-0.803	0.005	-0.597	0.016
TUBA8	<i>Tuba8</i>	0.525	1.004	0.123	1.542	0.014	1.050	0.108	2.228	<0.001
UCP2	<i>Ucp2</i>	-0.133	0.204	0.479	0.582	0.033	0.177	0.540	-0.190	0.458
WRN	<i>Wrn</i>	-0.057	0.014	0.930	-0.190	0.222	-0.129	0.430	-0.135	0.351
XRCC6	<i>Xrcc6</i>	-0.321	-0.083	0.677	0.210	0.256	-0.045	0.820	-0.238	0.179

Table S5. Expression levels of genes involved in oxidative stress signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR		
		r	logFC	p	logFC	p	logFC	p	logFC	
53BP1	<i>Trp53bp1</i>	-0.455	0.142	0.346	-0.124	0.392	-0.160	0.297	-0.182	0.181
AKR	<i>Akr1a1</i>	-0.214	-0.013	0.939	0.062	0.704	-0.016	0.926	-0.083	0.587
AKT	<i>Akt1</i>	0.072	0.049	0.710	0.258	0.038	0.109	0.405	0.046	0.695
AOX1	<i>Aox1</i>	-0.316	0.156	0.476	0.159	0.446	-0.046	0.835	-0.185	0.343
ARD1	<i>Naa10</i>	0.052	-0.251	0.082	-0.064	0.633	-0.025	0.861	0.004	0.977
ARNT	<i>Arnt</i>	0.457	0.085	0.566	0.091	0.519	0.273	0.063	0.201	0.126
ASK1	<i>Map3k5</i>	0.525	0.195	0.382	0.019	0.928	0.152	0.494	0.294	0.137
ATF2	<i>Atf2</i>	0.414	0.014	0.922	-0.053	0.690	0.046	0.745	0.208	0.093
ATF4	<i>Atf4</i>	-0.141	-0.061	0.700	-0.055	0.714	-0.034	0.830	-0.161	0.253
ATF6	<i>Atf6</i>	-0.227	-0.058	0.724	-0.022	0.889	-0.318	0.055	-0.090	0.538
ATM	<i>Atm</i>	0.005	0.105	0.576	-0.050	0.780	0.011	0.954	-0.078	0.646
BACH1	<i>Bach1</i>	0.070	0.365	0.051	0.088	0.625	0.096	0.610	-0.094	0.573
BID	<i>Bid</i>	-0.364	-0.040	0.835	-0.201	0.275	-0.184	0.345	-0.408	0.019
BIP	<i>Hspa5</i>	-0.431	-0.164	0.571	-0.197	0.473	-0.519	0.076	-0.500	0.050
BLM	<i>Blm</i>	-0.066	-0.193	0.591	-0.702	0.044	-0.239	0.507	-0.460	0.150
BRCA1	<i>Brcal</i>	0.463	0.008	0.985	0.734	0.055	0.903	0.024	1.072	0.003
c-Abl	<i>Abll</i>	0.245	0.189	0.215	0.260	0.071	0.246	0.105	0.122	0.371
c-Jun	<i>Jun</i>	-0.025	-0.027	0.943	0.834	0.017	-0.052	0.891	-0.014	0.966
c-MAF	<i>Maf</i>	0.259	0.052	0.748	0.210	0.175	0.236	0.146	0.176	0.223
c-RAF	<i>Raf1l</i>	-0.299	-0.165	0.253	-0.215	0.116	-0.278	0.055	-0.247	0.052
CALR	<i>Calr</i>	-0.616	-0.562	0.065	-0.444	0.122	-0.902	0.003	-0.638	0.016
CASP3	<i>Casp3</i>	-0.315	-0.439	0.038	-0.312	0.115	-0.059	0.774	-0.472	0.011
CASP7	<i>Casp7</i>	0.158	-0.014	0.941	-0.025	0.887	0.268	0.142	-0.086	0.600
CASP9	<i>Casp9</i>	-0.257	-0.279	0.109	-0.157	0.336	-0.164	0.344	-0.471	0.002
CAT	<i>Cat</i>	-0.805	-0.091	0.700	-0.470	0.039	-0.487	0.043	-0.668	0.001
CBP	<i>Crebbp</i>	0.395	0.196	0.375	0.185	0.379	0.138	0.533	0.399	0.042
CBR1	<i>Cbr1</i>	0.712	0.505	0.221	1.316	0.001	1.314	0.001	1.858	0.000
CCT7	<i>Cct7</i>	0.068	-0.152	0.253	0.049	0.697	-0.010	0.937	0.005	0.968
CDC25A	<i>Cdc25a</i>	0.175	0.154	0.598	0.426	0.116	0.273	0.348	0.376	0.144
CDK1	<i>Cdk1</i>	-0.132	0.564	0.430	1.514	0.025	0.445	0.538	-0.742	0.267
CDK2	<i>Cdk2</i>	0.027	0.145	0.420	-0.176	0.315	0.068	0.709	-0.078	0.631
Chk2	<i>Chek2</i>	-0.238	0.188	0.623	0.426	0.234	0.330	0.386	-0.226	0.524
CHOP	<i>Ddit3</i>	-0.200	0.635	0.174	0.784	0.079	0.146	0.759	-0.136	0.749
CLPP	<i>Clpp</i>	-0.026	-0.128	0.359	-0.074	0.574	-0.092	0.511	-0.004	0.977
CSF2R α	<i>Csf2ra</i>	-0.123	0.121	0.738	0.439	0.197	-0.017	0.962	-0.735	0.026
CSF2R β	<i>Csf2rb2</i>	-0.032	0.382	0.327	0.706	0.056	0.191	0.554	-0.029	0.921

CUL2	<i>Cul2</i>	-0.524	0.027	0.848	-0.253	0.061	-0.094	0.508	-0.186	0.137
EIF2S1	<i>Eif2s1</i>	-0.195	0.050	0.740	0.101	0.480	-0.117	0.440	-0.105	0.433
EIF4E	<i>Eif4e</i>	-0.131	-0.018	0.898	-0.044	0.746	0.139	0.325	0.069	0.582
elF2α	<i>Eif2a</i>	0.502	0.059	0.628	0.019	0.873	0.161	0.188	0.185	0.089
elF2γ	<i>Eif2s3x</i>	0.426	0.109	0.460	-0.003	0.985	0.159	0.280	0.253	0.054
elF4C	<i>Eif1a</i>	0.038	-0.028	0.906	0.159	0.483	-0.019	0.938	0.221	0.296
ELK-1	<i>Elk1</i>	-0.377	-0.063	0.808	0.045	0.852	-0.388	0.142	-0.412	0.077
EPHX1	<i>Ephx1</i>	0.042	0.282	0.421	0.846	0.011	0.418	0.232	0.633	0.044
ERK5	<i>Mapk7</i>	-0.087	0.035	0.909	0.106	0.709	-0.127	0.682	-0.082	0.765
ERP29	<i>Erp29</i>	-0.508	-0.227	0.173	-0.084	0.593	-0.293	0.080	-0.313	0.033
FKBP5	<i>Fkbp5</i>	0.780	0.438	0.411	1.267	0.013	1.575	0.003	2.180	0.000
FMO1	<i>Fmo1</i>	0.818	0.439	0.149	0.724	0.012	1.206	0.000	1.099	0.000
FTH1	<i>Fth1</i>	0.532	0.184	0.319	0.283	0.108	0.326	0.077	0.409	0.013
GADD34	<i>Ppp1r15a</i>	0.191	0.049	0.799	0.170	0.348	-0.004	0.984	0.139	0.416
GCLC	<i>Gclc</i>	-0.388	0.246	0.368	0.017	0.948	-0.571	0.041	-0.504	0.038
GCLM	<i>Gclm</i>	0.003	0.221	0.152	0.332	0.024	0.131	0.396	0.160	0.245
GCN2	<i>Eif2ak4</i>	0.387	-0.003	0.989	0.084	0.635	0.139	0.454	0.300	0.067
gp91	<i>Cybb</i>	-0.071	0.217	0.534	0.732	0.027	0.021	0.951	-0.483	0.120
GRB2	<i>Grb2</i>	-0.346	-0.098	0.434	0.003	0.982	-0.104	0.405	-0.123	0.266
GRP94	<i>Hsp90b1</i>	-0.486	-0.287	0.160	-0.337	0.082	-0.370	0.071	-0.302	0.092
GSK3β	<i>Gsk3b</i>	0.117	0.144	0.273	0.063	0.614	0.006	0.966	0.095	0.416
GSR	<i>Gsr</i>	-0.153	0.054	0.710	0.121	0.376	-0.187	0.198	-0.034	0.788
H2AX	<i>H2afx</i>	-0.111	0.212	0.396	0.289	0.220	-0.184	0.479	0.144	0.523
HERPUD1	<i>Herpud1</i>	0.184	-0.120	0.645	0.004	0.987	-0.025	0.922	0.216	0.347
HIF1α	<i>Hif1a</i>	0.060	0.008	0.954	-0.089	0.502	-0.113	0.421	-0.054	0.661
HIP2	<i>Ube2k</i>	0.058	-0.050	0.678	-0.039	0.730	-0.006	0.963	0.124	0.245
HO-1	<i>Hmox1</i>	0.117	-0.006	0.985	0.739	0.020	-0.080	0.813	0.241	0.418
HP1	<i>Cbx5</i>	0.205	0.255	0.067	0.183	0.167	0.177	0.204	0.062	0.620
HRI	<i>Eif2ak1</i>	0.151	-0.016	0.903	-0.161	0.192	-0.118	0.363	-0.002	0.989
HSP90	<i>Hsp90aa1</i>	-0.423	0.055	0.820	0.124	0.588	-0.203	0.404	-0.150	0.483
IkBα	<i>Nfkbia</i>	0.575	0.116	0.557	0.074	0.695	0.160	0.418	0.462	0.008
ICAM1	<i>Icam1</i>	-0.056	-0.036	0.914	0.411	0.194	0.081	0.809	-0.085	0.775
ICSBP	<i>Irf8</i>	-0.080	0.320	0.324	0.472	0.125	0.093	0.776	-0.458	0.121
INSR	<i>Insr</i>	0.507	0.106	0.572	-0.076	0.670	0.153	0.414	0.245	0.141
IRE1	<i>Ern1</i>	-0.184	-0.033	0.895	-0.344	0.154	-0.466	0.069	-0.009	0.969
IRF-1	<i>Irf1</i>	-0.132	-0.040	0.851	-0.090	0.656	-0.261	0.225	-0.208	0.269
JAB1	<i>Cops5</i>	0.151	-0.080	0.547	-0.069	0.583	0.044	0.739	-0.008	0.945
JAK2	<i>Jak2</i>	-0.138	0.054	0.707	-0.132	0.337	-0.130	0.368	-0.177	0.167
JIK	<i>Taok3</i>	0.580	0.045	0.804	0.040	0.813	0.101	0.571	0.349	0.028
JNK1	<i>Mapk8</i>	0.392	0.183	0.239	0.051	0.730	0.211	0.173	0.312	0.023
KAP-1	<i>Trim28</i>	0.142	-0.072	0.661	0.024	0.880	0.007	0.965	0.005	0.974
MDC1	<i>Mdc1</i>	0.099	-0.010	0.960	0.079	0.672	0.082	0.680	0.117	0.506
MDM2	<i>Mdm2</i>	0.001	0.116	0.521	0.217	0.203	0.048	0.791	0.120	0.456
MDMX	<i>Mdm4</i>	0.309	0.298	0.281	0.279	0.289	0.337	0.222	0.311	0.207
MEK1	<i>Map2k1</i>	-0.493	-0.174	0.283	-0.122	0.426	-0.182	0.262	-0.359	0.012
MEK5	<i>Map2k5</i>	0.099	-0.098	0.545	0.004	0.978	-0.200	0.220	-0.058	0.687
MEKK	<i>Map3k1</i>	-0.017	0.233	0.317	0.167	0.452	-0.016	0.946	0.145	0.486
MRE11	<i>Mre11a</i>	0.072	0.142	0.625	0.123	0.657	-0.236	0.435	0.075	0.773
MRP1	<i>Abcc1</i>	-0.030	0.317	0.441	0.360	0.357	-0.148	0.727	-0.369	0.329
MRP2	<i>Abcc2</i>	0.241	0.209	0.333	0.190	0.355	0.132	0.543	0.139	0.470
MRP4	<i>Abcc4</i>	0.073	1.657	0.007	2.157	0.000	0.988	0.108	1.217	0.030
NBS1	<i>Nbn</i>	0.141	0.014	0.925	-0.089	0.534	-0.079	0.604	0.024	0.857
NRF2	<i>Nfe2l2</i>	-0.139	-0.035	0.828	-0.105	0.491	-0.146	0.365	-0.057	0.687

NRPB	<i>Enc1</i>	0.455	0.275	0.558	1.004	0.024	0.988	0.033	1.406	0.001
p21CIP1	<i>Cdkn1a</i>	0.055	0.775	0.288	1.702	0.016	-0.253	0.736	1.225	0.066
p22phox	<i>Cyba</i>	-0.101	0.115	0.767	0.647	0.075	0.062	0.874	-0.394	0.258
p38MAPK	<i>Mapk14</i>	0.614	0.219	0.157	0.243	0.099	0.306	0.048	0.436	0.002
p40phox	<i>Ncf4</i>	-0.231	-0.210	0.679	0.161	0.733	-0.169	0.739	-1.054	0.025
p47phox	<i>Ncf1</i>	-0.150	0.301	0.338	0.621	0.036	-0.082	0.799	-0.444	0.123
p53	<i>Trp53</i>	-0.159	0.136	0.551	0.326	0.131	-0.272	0.245	-0.076	0.711
P58IPK	<i>Dnajc3</i>	-0.105	-0.070	0.703	-0.144	0.409	-0.119	0.518	0.083	0.609
p67phox	<i>Ncf2</i>	-0.112	-0.069	0.857	0.271	0.447	-0.019	0.960	-0.427	0.210
PABP	<i>Pabpc1</i>	-0.272	0.045	0.775	0.011	0.944	-0.191	0.230	-0.180	0.200
PAI-1	<i>Serpine1</i>	0.039	-0.037	0.954	0.875	0.140	0.254	0.687	-0.365	0.521
PDK1	<i>Pdpk1</i>	0.279	0.092	0.564	0.054	0.723	-0.018	0.910	0.220	0.120
PERK	<i>Eif2ak3</i>	-0.206	0.109	0.663	-0.187	0.438	-0.587	0.024	-0.329	0.145
PKC β	<i>Prkcb</i>	-0.177	-0.169	0.508	0.129	0.589	-0.223	0.385	-0.648	0.005
PKR	<i>Eif2ak2</i>	-0.007	0.058	0.719	-0.039	0.801	0.057	0.727	0.084	0.559
PMF-1	<i>Pmf1</i>	0.453	-0.372	0.063	-0.128	0.491	0.074	0.702	0.211	0.221
PPAR α	<i>Ppara</i>	0.257	-0.004	0.987	-0.055	0.811	0.114	0.637	-0.037	0.864
PPIB	<i>Pbib</i>	-0.602	-0.394	0.099	-0.258	0.252	-0.507	0.034	-0.526	0.012
PRDX1	<i>Prdx1</i>	-0.201	-0.130	0.457	-0.079	0.632	-0.058	0.738	-0.078	0.610
Rac1	<i>Rac1</i>	-0.077	-0.032	0.801	-0.003	0.981	-0.037	0.773	-0.059	0.604
Rad50	<i>Rad50</i>	0.066	0.028	0.870	0.108	0.508	0.063	0.714	-0.009	0.956
RAD9	<i>Rad9a</i>	0.112	0.093	0.512	0.175	0.191	0.048	0.735	0.033	0.792
REF1	<i>Apex1</i>	-0.363	-0.469	0.021	-0.188	0.323	-0.298	0.140	-0.469	0.009
SHC	<i>Shc1</i>	-0.180	-0.091	0.512	0.026	0.845	-0.072	0.607	-0.258	0.036
SIRP α	<i>Sirpa</i>	-0.184	0.119	0.738	0.451	0.180	-0.253	0.481	-0.597	0.059
SP1	<i>Sp1</i>	-0.145	-0.081	0.528	-0.179	0.146	-0.215	0.100	-0.138	0.228
SQSTM1	<i>Sqstm1</i>	-0.287	0.000	0.999	0.200	0.481	-0.483	0.110	-0.475	0.072
SR-BI	<i>Scarb1</i>	0.155	-0.154	0.397	0.015	0.930	-0.146	0.422	0.125	0.438
SRC-1	<i>Ncoa1</i>	0.269	-0.018	0.903	-0.090	0.507	0.104	0.465	0.194	0.123
STAT1	<i>Stat1</i>	-0.217	0.044	0.866	0.120	0.631	-0.417	0.116	-0.336	0.148
STIP1	<i>Stip1</i>	-0.520	-0.131	0.496	-0.084	0.646	-0.361	0.064	-0.289	0.089
TCEB1	<i>Tceb1</i>	-0.252	0.119	0.519	0.005	0.978	0.076	0.682	-0.016	0.922
TDP1	<i>Tdp1</i>	-0.089	-0.083	0.827	0.200	0.569	0.005	0.990	-0.327	0.339
TLR4	<i>Tlr4</i>	-0.006	-0.007	0.979	0.146	0.576	0.044	0.875	0.005	0.986
TPA	<i>Plat</i>	-0.148	0.369	0.658	0.767	0.334	-1.024	0.248	-1.440	0.064
TRAF2	<i>Traf2</i>	-0.004	0.326	0.163	0.400	0.071	0.112	0.638	0.206	0.330
TRXR1	<i>Txnrd1</i>	-0.057	0.190	0.296	0.174	0.314	-0.053	0.773	0.134	0.405
TXN	<i>Txn1</i>	-0.298	-0.127	0.418	-0.351	0.019	-0.176	0.265	-0.196	0.157
UB2R1	<i>Cdc34</i>	-0.111	0.082	0.607	0.241	0.108	-0.105	0.512	0.053	0.707
UbcM2	<i>Ube2e3</i>	0.477	-0.026	0.855	0.063	0.640	0.154	0.275	0.241	0.054
USP14	<i>Usp14</i>	-0.191	-0.044	0.732	-0.114	0.352	-0.041	0.750	-0.039	0.734
VCAM1	<i>Vcam1</i>	0.456	0.122	0.711	0.847	0.007	0.542	0.097	0.639	0.029
VCP	<i>Vcp</i>	-0.549	-0.369	0.088	-0.321	0.116	-0.538	0.013	-0.542	0.004
VHL	<i>Vhl</i>	-0.256	0.052	0.835	0.116	0.621	-0.004	0.986	-0.045	0.838
XBP1	<i>Xbp1</i>	-0.571	-0.085	0.732	-0.283	0.230	-0.429	0.087	-0.659	0.003

Table S6. Expression levels of genes involved in reproduction signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR	
		r	logF C	p	logF C	p	logF C	p	logF C
β-catenin	<i>Ctnnb1</i>	0.363	0.100	0.550	0.083	0.601	0.220	0.190	0.268
ACOX1	<i>Acox1</i>	0.368	0.052	0.793	0.115	0.541	0.242	0.221	0.079
AHR	<i>Ahr</i>	0.468	0.012	0.957	0.117	0.564	0.293	0.166	0.422
AKT1	<i>Akt1</i>	0.072	0.049	0.710	0.258	0.038	0.109	0.405	0.046
Apafl	<i>Apafl</i>	0.020	0.141	0.693	0.775	0.018	0.373	0.290	0.037
ASPH	<i>Asph</i>	0.207	0.026	0.858	0.093	0.499	0.155	0.287	0.043
ATF2	<i>Atf2</i>	0.414	0.014	0.922	0.053	0.690	0.046	0.745	0.208
ATM	<i>Atm</i>	0.005	0.105	0.576	0.050	0.780	0.011	0.954	0.078
ATR	<i>Atr</i>	0.422	0.237	0.206	0.302	0.089	0.340	0.068	0.422
AXIN	<i>Axin1</i>	0.117	0.146	0.373	0.029	0.851	0.154	0.349	0.088
BAX	<i>Bax</i>	0.138	0.095	0.696	0.118	0.604	0.205	0.403	0.219
Bcl-2	<i>Bcl2</i>	0.221	0.665	0.077	0.396	0.274	0.449	0.265	0.401
Bcl-xL	<i>Bcl2l1</i>	0.005	0.134	0.473	0.224	0.205	0.077	0.684	0.065
Brca1	<i>Brca1</i>	0.463	0.008	0.985	0.734	0.055	0.903	0.024	1.072
c-Jun	<i>Jun</i>	0.025	0.027	0.943	0.834	0.017	0.052	0.891	0.014
c-Raf	<i>Raf1</i>	0.299	0.165	0.253	0.215	0.116	0.278	0.055	0.247
CABC1	<i>Adck3</i>	0.158	0.780	0.025	0.975	0.003	0.615	0.075	0.145
Caspase 6	<i>Casp6</i>	0.263	0.210	0.243	0.154	0.366	0.177	0.315	0.024
CDK2	<i>Cdk2</i>	0.027	0.145	0.420	0.176	0.315	0.068	0.709	0.078
CDK4	<i>Cdk4</i>	0.195	0.021	0.904	0.111	0.508	0.094	0.595	0.288
CEBPA	<i>Cebpa</i>	0.650	0.363	0.155	0.441	0.069	0.512	0.046	0.817
CGN	<i>Cgn</i>	0.260	0.382	0.041	0.284	0.105	0.443	0.018	0.246
Chk2	<i>Chek2</i>	0.238	0.188	0.623	0.426	0.234	0.330	0.386	0.226
CK1δ	<i>Csnk1d</i>	0.154	0.057	0.648	0.067	0.570	0.100	0.426	0.148
CTNNγ	<i>Jup</i>	0.163	0.203	0.247	0.307	0.062	0.136	0.433	0.171
CyclinG	<i>Ccng1</i>	0.121	0.068	0.665	0.035	0.813	0.079	0.616	0.107
CyclinK	<i>Ccnk</i>	0.409	0.082	0.576	0.076	0.579	0.004	0.976	0.138
Cyclin D1	<i>Ccnd1</i>	0.103	0.588	0.224	1.520	0.001	1.324	0.006	0.226
Cyclin D2	<i>Ccnd2</i>	-	0.264	0.353	0.128	0.637	-	0.555	-
									0.026

		0.259				0.170		0.571	
DLG1	<i>Dlg1</i>	0.413	0.076	0.588	0.139	0.300	0.238	0.093	0.373
DNA-PK	<i>Prkdc</i>	0.237	0.157	0.479	0.085	0.682	0.346	0.126	0.229
DRAM	<i>Dram1</i>	0.084	0.729	0.187	0.178	0.718	0.064	0.903	0.332
E-Cadherin	<i>Cdh1</i>	0.251	0.025	0.945	0.151	0.656	0.722	0.048	0.405
E2F1	<i>E2f1</i>	0.296	0.182	0.629	0.681	0.050	0.128	0.741	0.441
Elk-1	<i>Elk1</i>	0.377	0.063	0.808	0.045	0.852	0.388	0.142	0.412
FAK	<i>Ptk2</i>	0.093	0.133	0.357	0.032	0.819	0.038	0.797	0.021
FAS	<i>Fas</i>	0.107	0.015	0.932	0.319	0.043	0.096	0.570	0.187
FASN	<i>Fasn</i>	0.367	1.511	0.008	1.297	0.014	0.592	0.280	1.562
FST	<i>Fst</i>	0.524	1.391	0.008	1.190	0.015	1.540	0.004	1.968
G6PC	<i>G6pc</i>	0.183	0.646	0.195	0.285	0.543	0.167	0.733	0.657
GPD1	<i>Gpd1</i>	0.415	0.191	0.434	0.330	0.155	0.473	0.055	0.071
Gsk3 β	<i>Gsk3b</i>	0.117	0.144	0.273	0.063	0.614	0.006	0.966	0.095
HDAC	<i>Hdac1</i>	0.330	0.097	0.537	0.041	0.785	0.024	0.878	0.379
HDAC9	<i>Hdac9</i>	0.109	0.090	0.845	0.113	0.790	0.030	0.948	0.550
HIF1A	<i>Hif1a</i>	0.060	0.008	0.954	0.089	0.502	0.113	0.421	0.054
HIPK2	<i>Hipk2</i>	0.317	0.359	0.141	0.016	0.945	0.068	0.782	0.299
HMGN1	<i>Hmgn1</i>	0.202	0.053	0.698	0.013	0.920	0.185	0.170	0.029
HTT	<i>Htt</i>	0.338	0.107	0.582	0.185	0.315	0.267	0.174	0.313
IGF2	<i>Igf2</i>	0.067	0.383	0.800	7.505	0.000	0.764	0.613	0.486
IGFBP1	<i>Igfbp1</i>	0.377	0.089	0.878	1.118	0.042	0.318	0.581	1.199
ILK	<i>Ilk</i>	0.121	0.016	0.904	0.076	0.539	0.169	0.197	0.152
INSR	<i>Insr</i>	0.507	0.106	0.572	0.076	0.670	0.153	0.414	0.245
JMY	<i>Jmy</i>	0.286	0.096	0.554	0.006	0.968	0.056	0.731	0.257
JNK1	<i>Mapk8</i>	0.392	0.183	0.239	0.051	0.730	0.211	0.173	0.312
LEPR	<i>Lepr</i>	0.686	0.201	0.680	0.594	0.199	1.115	0.021	1.526
MDM2	<i>Mdm2</i>	0.001	0.116	0.521	0.217	0.203	0.048	0.791	0.120
MDM4	<i>Mdm4</i>	0.309	0.298	0.281	0.279	0.289	0.337	0.222	0.311
MKK3	<i>Map2k3</i>	0.044	0.262	0.106	0.221	0.152	0.193	0.233	0.038
MLXIPL	<i>Mlxipl</i>	0.493	0.236	0.412	0.743	0.007	0.638	0.028	0.520
Mup20	<i>Mup20</i>	0.884	1.845	0.255	6.244	0.001	6.679	0.001	7.905
NFE2L2	<i>Nfe2l2</i>	0.139	0.035	0.828	0.105	0.491	0.146	0.365	0.057

NR1I2	<i>Nr1i2</i>	0.805	0.306	0.204	0.498	0.030	0.782	0.001	0.783	0.000
NR2C2	<i>Nr2c2</i>	0.443	0.051	0.775	0.013	0.937	0.082	0.641	0.216	0.166
NRF1	<i>Nrf1</i>	0.120	0.128	0.471	0.168	0.317	0.152	0.394	0.087	0.581
OCLN	<i>Ocln</i>	0.248	0.402	0.104	0.181	0.434	0.173	0.478	0.224	0.295
p130CAS	<i>Bcar1</i>	0.613	0.188	0.434	0.271	0.235	0.570	0.020	0.893	0.000
p21Cip1	<i>Cdkn1a</i>	0.055	0.775	0.288	1.702	0.016	0.253	0.736	1.225	0.066
p300	<i>Ep300</i>	0.476	0.129	0.501	0.097	0.593	0.087	0.650	0.432	0.011
p38 MAPK	<i>Mapk14</i>	0.614	0.219	0.157	0.243	0.099	0.306	0.048	0.436	0.002
p48	<i>St13</i>	0.267	0.042	0.777	0.071	0.614	0.130	0.384	0.103	0.432
p53	<i>Trp53</i>	0.159	0.136	0.551	0.326	0.131	0.272	0.245	0.076	0.711
p53R2	<i>Rrm2b</i>	0.386	0.497	0.054	0.215	0.390	0.496	0.055	0.556	0.016
PAI-1	<i>Serpine2</i>	0.614	0.181	0.579	0.932	0.003	1.420	0.000	0.789	0.007
PALS2	<i>Mpp6</i>	0.277	0.094	0.606	0.002	0.991	0.192	0.289	0.221	0.169
PCAF	<i>Kat2b</i>	0.424	0.184	0.354	0.120	0.527	0.198	0.319	0.240	0.174
PCK1	<i>Pck1</i>	0.677	0.004	0.990	0.424	0.199	0.514	0.137	0.943	0.003
PCNA	<i>Pcna</i>	0.228	0.037	0.808	0.208	0.143	0.245	0.102	0.207	0.122
PDK1	<i>Pdpk1</i>	0.279	0.092	0.564	0.054	0.723	0.018	0.910	0.220	0.120
PERP	<i>Perp</i>	0.317	0.055	0.761	0.129	0.450	0.106	0.551	0.236	0.136
PIAS1	<i>Pias1</i>	0.270	0.171	0.269	0.129	0.375	0.044	0.774	0.151	0.259
PILT	<i>Tjapl</i>	0.084	0.299	0.309	0.358	0.197	0.289	0.352	0.097	0.715
PML	<i>Pml</i>	0.243	0.181	0.390	0.134	0.500	0.160	0.448	0.263	0.157
PPARA	<i>Ppara</i>	0.257	0.004	0.987	0.055	0.811	0.114	0.637	0.037	0.864
PPARG	<i>Pparg</i>	0.012	0.249	0.483	0.534	0.113	0.024	0.947	0.111	0.729
PPARGC1A	<i>Ppargc1a</i>	0.806	0.172	0.624	0.249	0.452	0.623	0.071	1.064	0.001
PTEN	<i>Pten</i>	0.131	0.001	0.995	0.097	0.595	0.069	0.717	0.041	0.807
PUMA	<i>Bbc3</i>	0.311	0.894	0.013	0.599	0.071	0.364	0.293	0.659	0.033
PXN	<i>Pxn</i>	0.248	0.126	0.367	0.059	0.652	0.112	0.424	0.054	0.661
Rac	<i>Rac1</i>	0.077	0.032	0.801	0.003	0.981	0.037	0.773	0.059	0.604
Rb	<i>Rb1</i>	0.315	0.052	0.757	0.338	0.039	0.251	0.146	0.217	0.153
RORA	<i>Rora</i>	0.240	0.063	0.759	0.141	0.470	0.063	0.758	0.054	0.768
RORC	<i>Rorc</i>	0.817	0.610	0.053	0.696	0.021	1.162	0.000	1.088	0.000
SCD	<i>Scd1</i>	0.123	0.561	0.125	0.670	0.053	0.278	0.444	0.438	0.169
SCO2	<i>Sco2</i>	0.082	-	0.714	0.026	0.942	0.427	0.251	0.310	0.354

			0.142								
SEPP1	<i>Sepp1</i>	0.386	0.167	0.376	0.116	0.521	0.284	-	0.133	0.247	0.141
SIRT	<i>Sirt1</i>	0.214	0.016	0.938	0.066	0.732	0.119	-	0.560	0.299	0.092
Slug	<i>Snai2</i>	0.429	0.004	0.988	0.037	0.889	0.139	-	0.617	0.319	0.194
SMARCB1	<i>Smarcb1</i>	0.320	0.075	0.759	0.152	0.507	0.226	-	0.358	0.477	0.029
STAG1	<i>Stag1</i>	0.180	0.023	0.880	0.157	0.274	0.048	-	0.750	0.153	0.247
STAT3	<i>Stat3</i>	0.227	0.364	0.151	0.348	0.142	0.043	-	0.862	0.271	0.223
Survivin	<i>Birc5</i>	0.039	0.321	0.580	1.432	0.008	0.403	-	0.507	0.053	0.920
SYMPK	<i>Sympk</i>	0.080	0.071	0.652	0.061	0.681	0.018	-	0.910	0.115	0.408
Teap	<i>Trp53inp1</i>	0.171	0.270	0.336	0.427	0.110	0.359	-	0.200	0.659	0.009
TGF-β	<i>Tgfb3</i>	0.224	0.037	0.953	0.029	0.961	0.691	-	0.296	1.709	0.004
TGFB3	<i>Tgfb3</i>	0.436	0.114	0.564	0.108	0.570	0.104	-	0.600	0.170	0.332
THRA	<i>Thra</i>	0.214	0.118	0.561	0.259	0.173	0.088	-	0.664	0.215	0.230
TNFR	<i>Tnfrsfla</i>	0.049	0.297	0.103	0.063	0.712	0.135	-	0.458	0.168	0.293
TOPBP1	<i>Topbp1</i>	0.303	0.238	0.201	0.137	0.424	0.097	-	0.592	0.133	0.406
TRAP220	<i>Med1</i>	0.350	0.083	0.572	0.036	0.798	0.017	-	0.907	0.153	0.241
TSP1	<i>Thbs1</i>	0.121	0.291	0.683	0.505	0.447	0.995	-	0.176	1.492	0.021
VINCULIN	<i>Vcl</i>	0.378	0.070	0.692	0.189	0.265	0.408	-	0.024	0.476	0.003
WASP	<i>Was</i>	0.118	0.151	0.704	0.245	0.503	0.322	-	0.426	0.585	0.107
WT1	<i>Wt1</i>	0.140	0.136	0.846	0.389	0.555	0.419	-	0.559	1.344	0.040
ZAC1	<i>Plagl1</i>	0.209	0.437	0.499	0.368	0.551	0.597	-	0.377	0.771	0.194
ZO2	<i>Tjp2</i>	0.264	0.261	0.199	0.102	0.593	0.227	-	0.264	0.433	0.016
ZO3	<i>Tjp3</i>	0.613	0.435	0.112	0.557	0.032	0.795	-	0.004	0.734	0.002

Table S7. Expression levels of genes involved in cancer signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR		
		r	logFC	p	logFC	p	logFC	p	logFC	
APAF1	<i>Apaf1</i>	0.020	0.141	0.693	0.775	0.018	0.373	0.290	0.037	0.908
APC	<i>Apc</i>	0.413	0.334	0.112	0.247	0.219	0.332	0.115	0.452	0.016
ASK1	<i>Map3k5</i>	0.525	0.195	0.382	0.019	0.928	0.152	0.494	0.294	0.137
ATM	<i>Atm</i>	0.005	0.105	0.576	-0.050	0.780	0.011	0.954	-0.078	0.646
ATR	<i>Atr</i>	0.422	0.237	0.206	0.302	0.089	0.340	0.068	0.422	0.011
AXIN	<i>Axin1</i>	0.117	-0.146	0.373	-0.029	0.851	-0.154	0.349	0.088	0.540
B-RAF	<i>Braf</i>	0.417	-0.058	0.768	-0.284	0.132	0.114	0.560	0.303	0.080

BAD	<i>Bad</i>	0.476	-0.024	0.925	0.089	0.711	0.240	0.339	0.415	0.062
BAK	<i>Bak1</i>	-0.276	0.001	0.996	0.172	0.541	-0.274	0.363	-0.446	0.093
BAX	<i>Bax</i>	-0.138	-0.095	0.696	0.118	0.604	-0.205	0.403	-0.219	0.312
BCL2	<i>Bcl2</i>	-0.221	0.665	0.077	0.396	0.274	-0.449	0.265	-0.401	0.256
BclXL	<i>Bcl2l1</i>	-0.005	0.134	0.473	0.224	0.205	-0.077	0.684	0.065	0.695
BIM	<i>Bcl2l11</i>	0.546	0.078	0.774	0.328	0.199	0.371	0.167	0.574	0.016
BMPR2	<i>Bmpr2</i>	0.334	0.618	0.038	0.610	0.032	0.562	0.060	0.606	0.024
BRCA1	<i>Brcal</i>	0.463	0.008	0.985	0.734	0.055	0.903	0.024	1.072	0.003
c-Fos	<i>Fos</i>	0.121	-1.152	0.104	0.271	0.656	-0.193	0.770	0.217	0.705
c-Jun	<i>Jun</i>	-0.025	-0.027	0.943	0.834	0.017	-0.052	0.891	-0.014	0.966
c-RAF	<i>Raf1</i>	-0.299	-0.165	0.253	-0.215	0.116	-0.278	0.055	-0.247	0.052
C3G	<i>Rapgef1</i>	0.321	0.178	0.169	0.258	0.036	0.109	0.400	0.215	0.062
Caspase9	<i>Casp9</i>	-0.257	-0.279	0.109	-0.157	0.336	-0.164	0.344	-0.471	0.002
CBL	<i>Cbl</i>	0.217	-0.226	0.512	0.034	0.916	0.044	0.897	0.089	0.766
CBP	<i>Crebbp</i>	0.395	0.196	0.375	0.185	0.379	0.138	0.533	0.399	0.042
CCND1	<i>Ccnd1</i>	0.103	0.588	0.224	1.520	0.001	1.324	0.006	0.226	0.601
CDHE	<i>Cdh1</i>	-0.251	0.025	0.945	0.151	0.656	-0.722	0.048	-0.405	0.200
CDK2	<i>Cdk2</i>	0.027	0.145	0.420	-0.176	0.315	0.068	0.709	-0.078	0.631
CHK2	<i>Chek2</i>	-0.238	0.188	0.623	0.426	0.234	0.330	0.386	-0.226	0.524
CRK	<i>Crk</i>	0.303	0.242	0.138	0.011	0.943	0.190	0.245	0.274	0.060
CTNN β	<i>Ctnnb1</i>	-0.363	-0.100	0.550	-0.083	0.601	-0.220	0.190	-0.268	0.069
CTNN δ	<i>Ctnnd1</i>	-0.070	-0.185	0.187	-0.089	0.502	-0.154	0.274	-0.124	0.314
DAXX	<i>Daxx</i>	-0.147	-0.233	0.212	-0.204	0.247	-0.389	0.040	-0.237	0.152
DNAPK	<i>Prkdc</i>	-0.237	-0.157	0.479	-0.085	0.682	-0.346	0.126	-0.229	0.246
DSH	<i>Dvl1</i>	0.490	-0.054	0.744	0.094	0.547	0.168	0.306	0.288	0.047
ELK-1	<i>Elk1</i>	-0.377	-0.063	0.808	0.045	0.852	-0.388	0.142	-0.412	0.077
EPAC1	<i>Rapgef3</i>	-0.192	0.200	0.525	0.094	0.754	-0.223	0.498	-0.083	0.774
FADD	<i>Fadd</i>	-0.480	-0.293	0.095	-0.301	0.070	-0.415	0.019	-0.565	0.000
FAK	<i>Ptk2</i>	-0.093	0.133	0.357	0.032	0.819	-0.038	0.797	0.021	0.873
FAS	<i>Fas</i>	0.107	0.015	0.932	0.319	0.043	0.096	0.570	0.187	0.212
FLIP	<i>Cflar</i>	0.329	0.243	0.163	0.046	0.782	0.211	0.225	0.278	0.072
FOXO1	<i>Foxo1</i>	0.603	0.236	0.302	0.322	0.139	0.382	0.094	0.681	0.001
FYN	<i>Fyn</i>	-0.297	0.002	0.993	0.118	0.519	0.012	0.953	-0.240	0.171
GRB2	<i>Grb2</i>	-0.346	-0.098	0.434	0.003	0.982	-0.104	0.405	-0.123	0.266
GSK3 β	<i>Gsk3b</i>	0.117	0.144	0.273	0.063	0.614	0.006	0.966	0.095	0.416
HAT1	<i>Hat1</i>	-0.099	0.082	0.702	0.107	0.596	0.106	0.620	-0.017	0.929
HIF1 α	<i>Hif1a</i>	0.060	0.008	0.954	-0.089	0.502	-0.113	0.421	-0.054	0.661
HIPK2	<i>Hipk2</i>	0.317	0.359	0.141	-0.016	0.945	0.068	0.782	0.299	0.172
IRS1	<i>Irs1</i>	0.120	-0.229	0.408	-0.191	0.466	-0.129	0.639	0.412	0.089
MAX	<i>Max</i>	-0.149	0.166	0.250	0.098	0.476	-0.038	0.795	-0.022	0.866
MDM2	<i>Mdm2</i>	0.001	0.116	0.521	0.217	0.203	0.048	0.791	0.120	0.456
MIZ1	<i>Zbtb17</i>	-0.167	-0.035	0.846	-0.020	0.907	-0.122	0.500	-0.181	0.262
MYC	<i>Myc</i>	-0.042	0.872	0.151	0.459	0.431	0.226	0.713	-0.618	0.261
NBS1	<i>Nbn</i>	0.141	0.014	0.925	-0.089	0.534	-0.079	0.604	0.024	0.857
NCSTN	<i>Ncstn</i>	0.043	-0.233	0.123	0.029	0.840	-0.005	0.972	-0.009	0.944
NF1	<i>Nfl</i>	0.031	0.026	0.875	-0.134	0.388	-0.085	0.603	0.005	0.972
NICD	<i>Notch1</i>	0.150	-0.173	0.398	0.081	0.675	0.095	0.640	0.226	0.207
NLK	<i>Nlk</i>	-0.352	0.120	0.533	-0.227	0.224	-0.041	0.834	-0.212	0.226
p18INK4C	<i>Cdkn2c</i>	0.118	0.474	0.161	0.528	0.101	0.653	0.052	0.545	0.073
p21CIP1	<i>Cdkn1a</i>	0.055	0.775	0.288	1.702	0.016	-0.253	0.736	1.225	0.066
p27KIP1	<i>Cdkn1b</i>	-0.152	0.054	0.745	-0.047	0.766	-0.197	0.243	-0.047	0.748
p300	<i>Ep300</i>	0.476	0.129	0.501	0.097	0.593	0.087	0.650	0.432	0.011
p53	<i>Trp53</i>	-0.159	0.136	0.551	0.326	0.131	-0.272	0.245	-0.076	0.711

PTCH	<i>Ptch1</i>	0.204	-0.103	0.684	-0.136	0.572	-0.397	0.125	0.184	0.410
PUMA	<i>Bbc3</i>	-0.311	-0.894	0.013	-0.599	0.071	-0.364	0.293	-0.659	0.033
RalGAP	<i>Ralbp1</i>	-0.357	0.061	0.689	0.004	0.980	-0.136	0.373	-0.318	0.019
RALGEF	<i>Ralgds</i>	-0.171	0.225	0.595	0.514	0.198	0.222	0.602	-0.368	0.345
RASGAP	<i>Rasa1</i>	0.001	0.057	0.695	-0.090	0.516	-0.034	0.818	-0.048	0.710
RASGRP	<i>Rasgrp1</i>	-0.187	-0.031	0.932	0.175	0.608	0.029	0.936	-0.592	0.077
Rb	<i>Rb1</i>	-0.315	0.052	0.757	-0.338	0.039	-0.251	0.146	-0.217	0.153
RBL1	<i>Rbl1</i>	-0.021	0.645	0.161	0.934	0.032	0.086	0.858	-0.011	0.980
RBPJK	<i>Rbpj</i>	-0.100	0.052	0.722	-0.083	0.554	-0.033	0.825	-0.110	0.402
SHC	<i>Shc1</i>	-0.180	-0.091	0.512	0.026	0.845	-0.072	0.607	-0.258	0.036
SHP2	<i>Ptpn11</i>	0.124	0.155	0.295	0.114	0.418	0.045	0.764	0.179	0.173
SMAC	<i>Diablo</i>	-0.164	-0.006	0.968	0.107	0.482	-0.172	0.298	-0.090	0.533
SMAD4	<i>Smad4</i>	0.360	0.133	0.407	-0.007	0.962	0.110	0.493	0.229	0.106
SMAD6	<i>Smad6</i>	0.041	-0.118	0.627	0.074	0.744	-0.081	0.740	-0.183	0.399
SMAD7	<i>Smad7</i>	0.052	0.229	0.338	0.123	0.588	0.431	0.069	-0.247	0.254
SMO	<i>Smo</i>	-0.431	-0.320	0.397	-0.254	0.477	-0.951	0.015	-1.234	0.000
SRC	<i>Src</i>	-0.082	0.633	0.301	1.359	0.020	-0.224	0.724	0.037	0.947
STK6	<i>Aurka</i>	-0.053	-0.194	0.695	0.913	0.040	-0.333	0.507	0.189	0.661
SUFU	<i>Sufu</i>	0.011	-0.010	0.978	0.343	0.298	0.214	0.547	0.094	0.768
TAB1	<i>Tab2</i>	0.270	-0.086	0.639	-0.147	0.397	-0.244	0.183	0.322	0.046
tBID	<i>Bid</i>	-0.364	-0.040	0.835	-0.201	0.275	-0.184	0.345	-0.408	0.019
TGFβR1	<i>Tgfb1</i>	0.221	0.328	0.077	0.288	0.103	0.280	0.132	0.358	0.031
TGFβR2	<i>Tgfb2</i>	0.066	0.076	0.665	0.151	0.363	0.055	0.755	0.032	0.835
WNT5A	<i>Wnt5a</i>	0.004	0.322	0.584	0.458	0.413	-0.300	0.628	-0.209	0.700

Table S8. Expression levels of genes involved in autophagy pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR		
		r	logFC	p	logFC	p	logFC	p	logFC	
ATG10	<i>Atg10</i>	-0.125	0.083	0.725	-0.177	0.441	0.043	0.856	-0.163	0.448
ATG12	<i>Atg12</i>	-0.095	0.089	0.566	0.096	0.513	-0.052	0.738	-0.007	0.960
ATG13	<i>Atg13</i>	-0.003	-0.132	0.372	-0.241	0.088	-0.143	0.335	-0.097	0.458
ATG16L1	<i>Atg16l1</i>	0.651	0.036	0.842	0.033	0.848	0.144	0.427	0.466	0.004
ATG3	<i>Atg3</i>	0.411	0.006	0.972	-0.094	0.553	0.188	0.256	0.160	0.278
ATG5	<i>Atg5</i>	0.319	0.052	0.731	0.087	0.546	0.167	0.269	0.163	0.226
ATG7	<i>Atg7</i>	-0.403	-0.189	0.229	-0.108	0.465	-0.277	0.080	-0.358	0.010
BCL2	<i>Bcl2</i>	-0.221	0.665	0.077	0.396	0.274	-0.449	0.265	-0.401	0.256
BECN1	<i>Beclin1</i>	-0.366	0.115	0.361	-0.052	0.665	-0.123	0.333	-0.024	0.831
FIP200	<i>Rb1cc1</i>	0.399	0.184	0.299	0.049	0.773	0.171	0.335	0.273	0.083
LAMP1	<i>Lamp1</i>	-0.301	-0.006	0.973	0.007	0.963	-0.116	0.472	-0.100	0.478
LAMP2	<i>Lamp2</i>	-0.611	-0.130	0.494	-0.260	0.152	-0.272	0.155	-0.192	0.253
LC3-II	<i>Map1lc3a</i>	0.450	-0.003	0.986	0.106	0.572	0.183	0.353	0.497	0.004
LC3-II	<i>Map1lc3b</i>	0.486	-0.009	0.956	0.133	0.369	0.109	0.485	0.238	0.085
mTOR	<i>Mtor</i>	-0.119	0.060	0.704	0.159	0.289	0.043	0.787	-0.122	0.384
NBR1	<i>Nbr1</i>	0.080	-0.032	0.843	-0.176	0.249	-0.051	0.752	-0.015	0.915
SQSTM1	<i>Sqstm1</i>	-0.287	0.000	0.999	0.200	0.481	-0.483	0.110	-0.475	0.072
STX17	<i>Stx17</i>	0.403	0.117	0.464	-0.034	0.824	0.199	0.210	0.160	0.257
ULK1	<i>Ulk1</i>	-0.040	-0.384	0.029	-0.214	0.197	-0.290	0.098	-0.103	0.504
WDFY3	<i>Wdfy3</i>	0.471	0.120	0.531	0.106	0.561	0.198	0.302	0.309	0.070
WIPI1	<i>Wipi1</i>	0.054	-0.500	0.019	-0.287	0.148	-0.371	0.079	-0.174	0.344

Table S9. Expression levels of genes involved in fuel utilization correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR	
		r	logF C	p	logF C	p	logF C	p	logF C
<i>Hsd17b1</i>									
ABAD	<i>0</i>	0.523	-0.002	0.991	-0.016	0.930	0.165	0.382	0.322
ACAA1	<i>Acaa1a</i>	0.364	0.098	0.609	0.178	0.323	0.286	0.129	0.158
Acaa1b	<i>Acaa1b</i>	0.340	0.334	0.329	0.184	0.574	0.655	0.055	0.551
ACAA2	<i>Acaa2</i>	0.309	0.054	0.780	-0.024	0.896	0.132	0.493	0.205
ACADM	<i>Acadm</i>	0.561	0.138	0.510	0.243	0.222	0.384	0.065	0.601
ACO1	<i>Aco1</i>	0.057	-0.037	0.829	-0.085	0.606	-0.056	0.746	-0.013
ACO2	<i>Aco2</i>	0.698	0.123	0.600	0.349	0.117	0.513	0.028	0.652
ACSL1	<i>Acsl1</i>	0.247	0.390	0.179	-0.073	0.794	0.234	0.422	0.143
ACSL3	<i>Acsl3</i>	0.024	-0.361	0.132	-0.082	0.715	0.088	0.711	-0.402
ACSL4	<i>Acsl4</i>	-0.161	0.140	0.550	0.298	0.179	0.062	0.792	-0.162
ACSL5	<i>Acsl5</i>	-0.021	-0.622	0.011	-0.484	0.035	-0.320	0.185	-0.242
ADRB3	<i>Adrb3</i>	-0.524	-0.341	0.498	-1.337	0.007	-0.883	0.087	-1.689
AIF	<i>Aifm1</i>	0.086	-0.143	0.341	-0.080	0.574	-0.018	0.902	0.062
ALDOA	<i>Aldoa</i>	0.291	-0.060	0.753	0.237	0.191	0.093	0.625	0.226
ALDOB	<i>Aldob</i>	0.504	-0.169	0.509	-0.091	0.705	0.174	0.494	0.452
ALDOC	<i>Aldoc</i>	0.152	-0.490	0.215	0.132	0.721	0.167	0.665	-0.176
APP	<i>App</i>	-0.016	0.306	0.340	0.670	0.028	0.244	0.448	0.269
ATP5A1	<i>Atp5a1</i>	0.575	-0.066	0.715	-0.075	0.660	0.141	0.431	0.222
ATP5B	<i>Atp5b</i>	0.608	0.007	0.968	0.061	0.725	0.211	0.244	0.352
ATP5C1	<i>Atp5c1</i>	0.683	0.085	0.650	0.090	0.615	0.302	0.106	0.362
ATP5D	<i>Atp5d</i>	0.348	-0.031	0.846	0.056	0.708	0.065	0.679	0.176
ATP5F1	<i>Atp5f1</i>	0.662	0.036	0.831	0.033	0.838	0.280	0.099	0.316
ATP5G3	<i>Atp5g3</i>	0.520	0.163	0.313	0.005	0.972	0.301	0.061	0.313
ATP5H	<i>Atp5h</i>	0.687	-0.067	0.717	-0.014	0.937	0.266	0.149	0.381
ATP5J	<i>Atp5j</i>	0.267	0.038	0.814	-0.120	0.436	0.138	0.393	0.099
ATP5J2	<i>Atp5j2</i>	0.360	0.175	0.317	-0.007	0.966	0.267	0.125	0.255
AUH	<i>Auh</i>	0.032	0.079	0.611	-0.119	0.422	0.004	0.978	0.001
BCL2	<i>Bcl2</i>	-0.221	0.665	0.077	0.396	0.274	-0.449	0.265	-0.401
BECN1	<i>Beclin1</i>	-0.366	0.115	0.361	-0.052	0.665	-0.123	0.333	-0.024
PGM	<i>Bpgm</i>	-0.142	-0.084	0.666	0.123	0.500	-0.226	0.251	0.207
CAMK4	<i>Camk4</i>	0.023	0.409	0.340	0.055	0.896	-0.389	0.397	0.076
Caspase 3	<i>Casp3</i>	-0.315	-0.439	0.038	-0.312	0.115	-0.059	0.774	-0.472
Caspase 8	<i>Casp8</i>	0.075	0.093	0.508	0.039	0.770	0.047	0.737	-0.072
Caspase 9	<i>Casp9</i>	-0.257	-0.279	0.109	-0.157	0.336	-0.164	0.344	-0.471
CAT	<i>Cat</i>	-0.805	-0.091	0.700	-0.470	0.039	-0.487	0.043	-0.668
CHUK	<i>Chuk</i>	0.065	0.152	0.458	-0.183	0.349	0.035	0.865	-0.021
COX4I1	<i>Cox4i1</i>	0.429	-0.070	0.693	0.002	0.993	0.155	0.381	0.202
COX5A	<i>Cox5a</i>	0.576	-0.010	0.952	-0.054	0.740	0.230	0.176	0.293

COX6A1	<i>Cox6a1</i>	0.406	0.082	0.596	-0.055	0.706	0.049	0.752	0.205	0.135
COX6B1	<i>Cox6b1</i>	0.367	0.100	0.548	-0.003	0.987	0.158	0.344	0.229	0.122
COX7A1	<i>Cox7a1</i>	0.820	0.405	0.386	0.721	0.099	1.188	0.008	1.585	0.000
COX7A2	<i>Cox7a2</i>	-0.035	0.050	0.751	-0.173	0.300	-0.024	0.893	-0.017	0.911
COX7B	<i>Cox7b</i>	0.545	0.179	0.410	-0.066	0.752	0.400	0.065	0.404	0.037
COX8A	<i>Cox8a</i>	0.627	0.119	0.465	-0.027	0.863	0.247	0.130	0.298	0.040
CRTC3	<i>Crtc3</i>	-0.027	-0.254	0.137	-0.181	0.258	-0.286	0.096	-0.041	0.780
CS	<i>Cs</i>	-0.012	-0.604	0.005	-0.502	0.014	-0.238	0.266	-0.259	0.170
DHOH	<i>Dhodh</i>	-0.254	-0.337	0.151	0.007	0.972	-0.111	0.627	-0.262	0.204
DHTKD1	<i>Dhtkd1</i>	0.515	0.213	0.316	0.040	0.842	0.355	0.094	0.333	0.078
DJ - 1	<i>Park7</i>	0.310	0.002	0.986	-0.045	0.741	0.115	0.416	0.181	0.149
DLD	<i>Dld</i>	0.453	0.035	0.817	-0.081	0.570	0.093	0.534	0.243	0.067
DLST	<i>Dlst</i>	0.479	0.107	0.519	0.124	0.433	0.242	0.144	0.311	0.035
ECHS1	<i>Echs1</i>	0.632	-0.040	0.833	-0.011	0.950	0.319	0.092	0.289	0.086
ECI1	<i>Eci1</i>	0.315	0.098	0.596	0.029	0.870	0.364	0.048	0.136	0.408
ECI2	<i>Eci2</i>	0.519	0.378	0.164	0.191	0.461	0.501	0.065	0.425	0.080
EHHADH	<i>Ehhadhd</i>	0.721	0.463	0.318	1.047	0.019	1.570	0.001	1.803	0.000
ENO1	<i>Eno1</i>	0.524	-0.496	0.113	-0.147	0.615	0.086	0.778	0.433	0.108
ENO3	<i>Eno3</i>	0.077	0.256	0.361	-0.183	0.507	-0.074	0.798	-0.012	0.962
FBP1	<i>Fbp1</i>	0.117	-0.036	0.851	-0.076	0.681	0.079	0.682	0.065	0.702
FH	<i>Fhl</i>	0.161	-0.215	0.233	-0.012	0.946	-0.067	0.709	0.071	0.653
FIS1	<i>Fis1</i>	0.128	-0.052	0.752	0.094	0.545	0.045	0.784	0.071	0.624
FURIN	<i>Furin</i>	0.598	-0.163	0.353	-0.128	0.441	-0.020	0.908	0.205	0.186
GAPDH	<i>Gapdh</i>	0.360	-0.139	0.484	-0.112	0.552	-0.076	0.701	0.262	0.134
GNAS	<i>Gnas</i>	-0.311	0.014	0.928	-0.036	0.811	-0.116	0.459	-0.069	0.620
GPD2	<i>Gpd2</i>	0.235	-0.267	0.329	-0.510	0.050	-0.056	0.837	0.147	0.541
GPI	<i>Gpi1</i>	0.571	-0.176	0.505	0.023	0.926	0.187	0.474	0.625	0.007
GPX4	<i>Gpx4</i>	0.057	0.208	0.384	0.575	0.011	0.274	0.251	0.284	0.182
GPX7	<i>Gpx7</i>	0.074	0.809	0.208	1.710	0.005	0.803	0.215	0.573	0.329
GRX2	<i>Glxr2</i>	0.014	0.050	0.737	-0.113	0.423	0.041	0.784	0.070	0.592
GSR	<i>Gsr</i>	-0.153	0.054	0.710	0.121	0.376	-0.187	0.198	-0.034	0.788
HADH	<i>Hadhd</i>	0.620	0.147	0.475	0.343	0.080	0.565	0.006	0.511	0.005
HADHA	<i>Hadha</i>	0.377	0.038	0.833	0.067	0.693	0.044	0.805	0.178	0.262
	<i>Hsd17b1</i>									
HSD17B10	<i>0</i>	0.523	-0.002	0.991	-0.016	0.930	0.165	0.382	0.322	0.055
HSD17B4	<i>Hsd17b4</i>	0.149	-0.001	0.997	-0.060	0.723	0.055	0.758	0.166	0.295
HSD17B8	<i>H2-Ke6</i>	-0.084	-0.332	0.043	-0.167	0.281	-0.228	0.163	-0.099	0.489
HtrA2	<i>HtrA2</i>	0.193	-0.097	0.668	0.174	0.408	0.151	0.497	-0.007	0.970
HTT	<i>Htt</i>	-0.338	-0.107	0.582	-0.185	0.315	-0.267	0.174	-0.313	0.070
IDH3A	<i>Idh3a</i>	0.806	0.181	0.412	0.233	0.266	0.541	0.013	0.850	0.000
IDH3B	<i>Idh3b</i>	0.631	0.148	0.324	0.073	0.611	0.256	0.088	0.300	0.024
IDH3G	<i>Idh3g</i>	0.371	0.054	0.668	-0.030	0.805	0.104	0.413	0.178	0.113
IL15	<i>Il15</i>	0.392	0.490	0.203	0.285	0.446	0.576	0.133	0.482	0.165
IVD	<i>Ivd</i>	0.083	0.075	0.626	0.006	0.969	0.091	0.551	0.057	0.675
KGDH	<i>Ogdh</i>	0.350	-0.016	0.923	0.030	0.849	0.021	0.900	0.117	0.428
LETM1	<i>Letm1</i>	-0.130	-0.091	0.533	-0.139	0.315	-0.284	0.054	0.067	0.603

LRRK2	<i>Lrrk2</i>	0.014	0.417	0.191	0.147	0.636	0.226	0.488	-0.107	0.721
MAOA	<i>Maoa</i>	0.678	0.006	0.974	0.224	0.203	0.559	0.002	0.559	0.001
MAOB	<i>Maoob</i>	0.756	0.141	0.522	0.283	0.177	0.603	0.006	0.680	0.001
MDH1	<i>Mdh1</i>	0.205	-0.074	0.681	-0.112	0.514	0.035	0.848	0.028	0.862
MDH2	<i>Mdh2</i>	0.482	-0.093	0.652	0.258	0.185	0.204	0.320	0.518	0.005
ME1	<i>Me1</i>	0.029	-0.743	0.073	-0.928	0.018	-0.228	0.577	-0.288	0.423
ME2	<i>Me2</i>	-0.006	0.269	0.424	0.461	0.146	0.228	0.502	-0.076	0.803
MIRO2	<i>Rhot2</i>	0.348	0.116	0.416	0.148	0.274	0.171	0.231	0.300	0.018
MKK4	<i>Map2k4</i>	0.197	0.077	0.479	0.047	0.645	0.102	0.344	0.109	0.258
mtSOD	<i>Sod2</i>	0.568	0.162	0.327	0.034	0.827	0.255	0.122	0.320	0.029
NCT	<i>Ncstn</i>	0.043	-0.233	0.123	0.029	0.840	-0.005	0.972	-0.009	0.944
NDUFA1	<i>Ndufa11</i>	0.343	-0.008	0.966	-0.061	0.720	0.043	0.813	0.309	0.052
NDUFA10	<i>Ndufa10</i>	0.380	-0.059	0.689	-0.060	0.667	0.067	0.650	0.178	0.171
NDUFA12	<i>Ndufa12</i>	0.621	0.163	0.382	-0.044	0.803	0.238	0.199	0.529	0.001
NDUFA13	<i>Ndufa13</i>	-0.200	-0.008	0.956	-0.104	0.471	-0.102	0.503	-0.041	0.761
NDUFA2	<i>Ndufa2</i>	0.152	0.046	0.808	-0.218	0.231	0.171	0.363	0.176	0.293
NDUFA3	<i>Ndufa3</i>	0.193	0.062	0.725	-0.118	0.487	0.091	0.609	0.205	0.192
NDUFA4	<i>Ndufa4</i>	0.235	0.008	0.967	-0.215	0.256	0.023	0.906	0.173	0.326
NDUFA5	<i>Ndufa5</i>	0.543	0.156	0.443	-0.052	0.790	0.459	0.022	0.396	0.027
NDUFA6	<i>Ndufa6</i>	0.263	0.007	0.975	-0.353	0.084	0.022	0.917	0.174	0.357
NDUFA7	<i>Ndufa7</i>	0.634	0.083	0.645	0.182	0.286	0.388	0.029	0.509	0.001
NDUFA8	<i>Ndufa8</i>	0.619	-0.072	0.665	0.003	0.986	0.108	0.514	0.355	0.016
NDUFA9	<i>Ndufa9</i>	0.506	-0.136	0.385	-0.142	0.340	0.097	0.535	0.240	0.082
NDUFAF1	<i>Ndufaf1</i>	-0.610	-0.265	0.184	-0.352	0.064	-0.390	0.053	-0.460	0.009
NDUFB10	<i>Ndufb10</i>	0.543	-0.001	0.995	0.011	0.939	0.205	0.185	0.300	0.029
NDUFB11	<i>Ndufb11</i>	0.296	-0.105	0.560	-0.182	0.289	0.071	0.694	0.170	0.287
NDUFB2	<i>Ndufb2</i>	0.001	0.182	0.328	0.054	0.759	0.065	0.728	0.111	0.503
NDUFB3	<i>Ndufb3</i>	0.139	0.030	0.867	-0.329	0.059	0.021	0.906	-0.005	0.975
NDUFB4	<i>Ndufb4</i>	0.336	0.126	0.486	0.133	0.437	0.234	0.194	0.306	0.056
NDUFB5	<i>Ndufb5</i>	0.524	0.028	0.859	-0.107	0.474	0.202	0.194	0.242	0.080
NDUFB6	<i>Ndufb6</i>	0.463	-0.075	0.683	-0.129	0.460	0.235	0.195	0.313	0.053
NDUFB7	<i>Ndufb7</i>	0.210	-0.112	0.460	-0.112	0.436	0.094	0.533	0.100	0.454
NDUFB8	<i>Ndufb8</i>	0.569	0.000	0.998	-0.160	0.404	0.328	0.102	0.320	0.074
NDUFB9	<i>Ndufb9</i>	0.534	0.048	0.799	0.000	0.999	0.231	0.216	0.264	0.112
NDUFS1	<i>Ndufs1</i>	0.478	-0.006	0.967	-0.111	0.427	0.180	0.219	0.164	0.208
NDUFS2	<i>Ndufs2</i>	0.625	0.013	0.932	0.036	0.798	0.119	0.423	0.305	0.021
NDUFS4	<i>Ndufs4</i>	0.355	-0.007	0.966	-0.166	0.300	0.263	0.113	0.105	0.477
NDUFS6	<i>Ndufs6</i>	-0.050	0.121	0.547	-0.091	0.555	0.001	0.994	0.065	0.648
NDUFS7	<i>Ndufs7</i>	0.219	-0.141	0.391	-0.140	0.371	-0.018	0.914	0.065	0.652
NDUFS8	<i>Ndufs8</i>	0.027	-0.019	0.899	0.063	0.651	0.065	0.654	-0.011	0.935
NDUFV1	<i>Ndufv1</i>	0.572	-0.139	0.404	-0.064	0.686	0.002	0.988	0.280	0.057
NDUFV2	<i>Ndufv2</i>	0.592	0.097	0.572	0.012	0.942	0.273	0.112	0.405	0.008
NDUFV3	<i>Ndufv3</i>	0.374	0.102	0.491	0.025	0.858	0.089	0.548	0.223	0.088
NOS3	<i>Nos3</i>	-0.093	-0.404	0.219	0.012	0.968	-0.140	0.663	-0.345	0.232
NR1D1	<i>Nr1dl</i>	-0.724	-0.966	0.028	-1.327	0.002	-1.619	0.000	-1.734	0.000

OGDH	<i>Ogdh</i>	0.350	-0.016	0.923	0.030	0.849	0.021	0.900	0.117	0.428
Parkin	<i>Park2</i>	0.012	0.161	0.636	-0.111	0.734	0.515	0.121	-0.210	0.496
PDHA	<i>Pdhal</i>	0.650	0.140	0.497	-0.122	0.533	0.296	0.148	0.367	0.045
PFKL	<i>Pfkl</i>	-0.327	-0.080	0.672	0.056	0.753	-0.087	0.648	-0.128	0.448
PFKM	<i>Pfkm</i>	0.407	-0.325	0.099	-0.114	0.536	0.205	0.282	-0.001	0.993
PFKP	<i>Pfkp</i>	0.187	0.393	0.179	0.529	0.057	0.238	0.419	0.323	0.217
PGAM1	<i>Pgam1</i>	0.383	0.018	0.911	0.009	0.953	0.039	0.803	0.328	0.018
PGK1	<i>Pgk1</i>	0.756	-0.019	0.925	0.161	0.407	0.353	0.083	0.616	0.001
PINK1	<i>Pink1</i>	0.640	-0.059	0.736	0.072	0.663	0.211	0.224	0.305	0.049
PKLR	<i>Pklr</i>	-0.281	-0.556	0.146	-0.928	0.011	-0.253	0.505	-0.495	0.137
PKM	<i>Pkm</i>	-0.155	-0.011	0.971	0.418	0.148	-0.176	0.569	-0.358	0.188
PPARGC1A	<i>Ppargc1a</i>	0.806	-0.172	0.624	0.249	0.452	0.623	0.071	1.064	0.001
PPARGC1B	<i>Ppargc1b</i>	0.189	0.051	0.824	-0.193	0.380	-0.001	0.998	-0.106	0.605
PRX3	<i>Prdx3</i>	0.266	-0.107	0.511	0.132	0.391	0.166	0.306	0.171	0.234
PRX5	<i>Prdx5</i>	-0.083	0.021	0.892	-0.019	0.897	-0.041	0.789	-0.007	0.962
PSEN1	<i>Psen1</i>	-0.026	-0.026	0.820	0.078	0.477	-0.049	0.677	0.013	0.896
PTEN	<i>Pten</i>	0.131	0.001	0.995	-0.097	0.595	0.069	0.717	0.041	0.807
SCP2	<i>Scp2</i>	-0.808	-0.096	0.729	-0.584	0.028	-0.608	0.031	-0.742	0.002
SDHA	<i>Sdh</i>	0.185	-0.084	0.658	-0.239	0.185	0.027	0.886	0.013	0.937
SDHB	<i>Sdhb</i>	0.462	0.127	0.474	-0.026	0.876	0.195	0.271	0.193	0.220
SDHC	<i>Sdhc</i>	0.632	-0.009	0.957	0.101	0.502	0.244	0.121	0.251	0.073
SDHD	<i>Sdhd</i>	0.735	-0.042	0.850	-0.024	0.909	0.411	0.063	0.435	0.028
SDS	<i>Sds</i>	0.552	-0.177	0.474	0.353	0.130	0.513	0.035	0.445	0.042
SIRT1	<i>Sirt1</i>	0.214	0.016	0.938	0.066	0.732	-0.119	0.560	0.299	0.092
SLC27A1	<i>Slc27a1</i>	0.243	0.426	0.232	0.558	0.098	0.507	0.153	0.413	0.195
SLC27A2	<i>Slc27a2</i>	-0.093	0.095	0.659	-0.196	0.340	-0.106	0.622	-0.149	0.434
SLC27A4	<i>Slc27a4</i>	-0.326	-0.168	0.379	-0.070	0.699	-0.309	0.109	-0.298	0.078
SLC27A5	<i>Slc27a5</i>	0.118	-0.290	0.277	-0.112	0.657	-0.093	0.727	0.005	0.982
SUCLA2	<i>Sucla2</i>	0.370	0.007	0.963	-0.121	0.409	0.114	0.461	0.183	0.181
SUCLG1	<i>Suclg1</i>	0.279	-0.007	0.963	0.015	0.923	0.156	0.331	0.137	0.338
Synucleinα	<i>Snca</i>	-0.087	0.131	0.862	1.040	0.130	0.415	0.575	0.818	0.210
TFAM	<i>Tfam</i>	0.426	-0.001	0.992	-0.054	0.709	0.217	0.150	0.217	0.105
TPI1	<i>Tpi1</i>	0.483	-0.182	0.331	0.011	0.951	0.104	0.577	0.331	0.045
TRAK1	<i>Trak1</i>	0.678	0.125	0.502	0.095	0.591	0.419	0.023	0.301	0.068
TRX2	<i>Txn2</i>	0.583	0.027	0.862	0.236	0.109	0.181	0.242	0.340	0.014
TRXR2	<i>Txnr2</i>	0.093	-0.187	0.271	-0.124	0.437	-0.015	0.931	0.033	0.825
UCP2	<i>Ucp2</i>	-0.133	0.204	0.479	0.582	0.033	0.177	0.540	-0.190	0.458
UQCR10	<i>Uqcr10</i>	0.369	0.246	0.170	0.020	0.907	0.319	0.074	0.419	0.008
UQCRCB	<i>Uqcrcb</i>	0.516	0.178	0.401	-0.102	0.618	0.259	0.226	0.308	0.106
UQCRC1	<i>Uqcrc1</i>	0.507	-0.064	0.712	-0.068	0.684	0.090	0.606	0.228	0.140
UQCRC2	<i>Uqcrc2</i>	0.688	0.012	0.944	-0.043	0.795	0.194	0.263	0.331	0.032
UQCRCFS1	<i>Uqcrcfs1</i>	0.618	0.012	0.942	-0.067	0.660	0.212	0.181	0.320	0.023
Xanthine oxidase	<i>Xdh</i>	0.107	0.077	0.634	0.158	0.303	-0.013	0.937	0.036	0.799

Table S10. Expression levels of genes involved in H2S production and signaling pathway correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR	
		r	logFC	p	logFC	p	logFC	p	logFC
CBS/CBSL	<i>Cbs</i>	-0.549	-0.626	0.021	-0.500	0.050	-0.701	0.010	-0.565
CRY1	<i>Cry1</i>	0.785	0.676	0.138	1.026	0.018	1.333	0.003	1.800
CRY2	<i>Cry2</i>	0.441	0.071	0.687	0.056	0.741	0.189	0.284	0.159
CTH	<i>Cth</i>	0.550	0.268	0.302	0.461	0.063	0.550	0.034	1.054
PER1	<i>Per1</i>	0.849	0.284	0.455	0.544	0.132	0.868	0.021	1.301
PER2	<i>Per2</i>	0.724	0.671	0.039	0.828	0.008	1.028	0.002	0.950
SIRT1	<i>Sirt1</i>	0.214	0.016	0.938	0.066	0.732	-0.119	0.560	0.299
FGF21	<i>Fgf21</i>	-0.076	0.369	0.614	0.588	0.399	-0.948	0.215	-0.960
									0.146

Table S11. Expression levels of genes involved in xenobiotic metabolism correlated with the increase in calorie restriction (CR) and their gene expression at each level of CR relative to 12h ad libitum intake.

Symbol	Gene Symbol	10CR		20CR		30CR		40CR	
		r	logFC	p	logFC	p	logFC	p	logFC
ABCA1	<i>Abca1</i>	-0.518	-0.087	0.602	-0.172	0.280	-0.230	0.169	-0.264
ABCG1	<i>Abcg1</i>	-0.038	0.130	0.615	0.320	0.190	0.041	0.873	-0.302
ABCG5	<i>Abcg5</i>	0.286	0.287	0.179	0.106	0.604	0.276	0.196	0.139
ABCG8	<i>Abcg8</i>	-0.078	-0.054	0.805	-0.279	0.179	-0.140	0.522	-0.319
AE2	<i>Slc4a2</i>	0.109	0.029	0.861	0.205	0.185	-0.107	0.518	0.010
AHR	<i>Ahr</i>	0.468	-0.012	0.957	0.117	0.564	0.293	0.166	0.422
ALAS1	<i>Alas1</i>	0.595	0.988	0.033	1.105	0.013	1.421	0.002	0.913
ALDH1A1	<i>Aldh1a1</i>	-0.379	0.234	0.324	-0.117	0.606	-0.105	0.660	-0.037
ALDH1A7	<i>Aldh1a7</i>	-0.034	0.029	0.894	0.172	0.401	0.144	0.504	-0.002
ALDH3A2	<i>Aldh3a2</i>	0.595	0.450	0.133	0.489	0.088	0.771	0.010	0.882
ANKRA2	<i>Ankra2</i>	-0.150	0.140	0.518	-0.085	0.685	0.060	0.782	-0.153
ApoA1	<i>Apoa1</i>	-0.468	-0.682	0.033	-0.354	0.239	-0.588	0.066	-0.797
ApoB	<i>Apob</i>	-0.239	0.044	0.827	-0.174	0.358	-0.202	0.313	-0.057
APOC2	<i>Apoc2</i>	0.073	0.211	0.366	0.551	0.013	0.171	0.464	0.218
APOE	<i>Apoe</i>	-0.364	-0.248	0.238	-0.216	0.277	-0.331	0.116	-0.233
ARNT	<i>Arnt</i>	0.457	0.085	0.566	0.091	0.519	0.273	0.063	0.201
ASBT	<i>Slc10a2</i>	-0.623	-0.542	0.345	-0.396	0.463	-1.162	0.049	-1.764
BAAT	<i>Baat</i>	-0.151	0.050	0.809	-0.180	0.358	-0.015	0.943	0.163
BACS	<i>Slc27a5</i>	0.118	-0.290	0.277	-0.112	0.657	-0.093	0.727	0.005
BSEP	<i>Abcb11</i>	-0.627	-0.395	0.138	-0.610	0.016	-0.552	0.039	-0.446
CAR	<i>Nr1i3</i>	0.691	0.674	0.140	0.656	0.133	1.327	0.004	1.153
CAT	<i>Cat</i>	-0.805	-0.091	0.700	-0.470	0.039	-0.487	0.043	-0.668
CCRP	<i>Dnajc7</i>	0.217	-0.023	0.850	-0.153	0.183	-0.004	0.971	0.020
CD14	<i>Cd14</i>	-0.154	0.506	0.365	0.982	0.064	-0.159	0.782	-0.274
CES3	<i>Ces3a</i>	-0.924	-0.247	0.769	-1.607	0.051	-2.929	0.002	-4.669
ChREBP	<i>Mlxipl</i>	-0.493	-0.236	0.412	-0.743	0.007	-0.638	0.028	-0.520
c-Jun	<i>Jun</i>	-0.025	-0.027	0.943	0.834	0.017	-0.052	0.891	-0.014
CPT1A	<i>Cpt1a</i>	0.390	0.173	0.452	0.285	0.193	0.300	0.191	0.191
c-RAF	<i>Raf1</i>	-0.299	-0.165	0.253	-0.215	0.116	-0.278	0.055	-0.247
CRM-1	<i>Xpol</i>	-0.081	-0.079	0.647	-0.266	0.104	-0.171	0.323	-0.136

CUL3	<i>Cul3</i>	0.353	0.026	0.864	-0.092	0.531	-0.025	0.870	0.187	0.169
CYP1A2	<i>Cyp1a2</i>	-0.687	-0.123	0.821	-0.924	0.078	-1.176	0.036	-2.285	0.000
CYP1B1	<i>Cyp1b1</i>	-0.231	0.206	0.729	-0.544	0.347	-0.757	0.223	-1.001	0.067
CYP27A1	<i>Cyp27a1</i>	-0.004	-0.562	0.060	-0.470	0.095	-0.280	0.345	-0.157	0.546
CYP2A6	<i>Cyp2a5</i>	0.169	1.206	0.015	1.435	0.003	1.390	0.005	1.171	0.009
CYP2B6	<i>Cyp2b10</i>	-0.133	1.602	0.277	4.118	0.008	1.852	0.213	3.296	0.024
CYP2C8	<i>Cyp2c39</i>	0.876	0.691	0.457	2.302	0.011	3.947	0.000	4.260	0.000
CYP3A5	<i>Cyp3a11</i>	0.415	0.541	0.169	1.047	0.005	0.772	0.049	1.286	0.000
CYP3A7	<i>Cyp3a13</i>	0.611	0.099	0.736	0.829	0.003	0.649	0.025	1.007	0.000
CYP4A14	<i>Cyp4a14</i>	0.822	2.801	0.015	4.426	0.000	5.538	0.000	6.391	0.000
CYP4A22	<i>Cyp4a10</i>	0.830	1.612	0.047	2.220	0.005	3.406	0.000	4.024	0.000
CYP7A1	<i>Cyp7a1</i>	0.394	0.316	0.485	0.865	0.045	1.275	0.005	1.275	0.002
CYP8B1	<i>Cyp8b1</i>	-0.679	-0.942	0.103	-1.523	0.006	-1.690	0.005	-2.072	0.000
ERK5	<i>Mapk7</i>	-0.087	0.035	0.909	0.106	0.709	-0.127	0.682	-0.082	0.765
FASN	<i>Fasn</i>	-0.367	-1.511	0.008	-1.297	0.014	-0.592	0.280	-1.562	0.001
FBP1	<i>Fbp1</i>	0.117	-0.036	0.851	-0.076	0.681	0.079	0.682	0.065	0.702
Fetuin B	<i>Fetub</i>	-0.149	-0.354	0.192	0.252	0.325	-0.229	0.398	-0.330	0.165
FGFR4	<i>Fgfr4</i>	-0.490	-0.152	0.465	-0.059	0.765	-0.399	0.058	-0.441	0.017
FOXO1	<i>Foxo1</i>	0.603	0.236	0.302	0.322	0.139	0.382	0.094	0.681	0.001
FOXO2	<i>Foxo3</i>	0.168	-0.019	0.924	-0.241	0.220	-0.120	0.562	0.015	0.933
FTL	<i>Ftl1</i>	0.220	0.118	0.549	0.193	0.301	0.164	0.402	0.214	0.220
FXR	<i>Nrlh4</i>	0.190	0.053	0.792	-0.168	0.379	0.148	0.460	0.106	0.548
G6PC	<i>G6pc</i>	0.183	-0.646	0.195	-0.285	0.543	0.167	0.733	0.657	0.133
GCLC	<i>Gclc</i>	-0.388	0.246	0.368	0.017	0.948	-0.571	0.041	-0.504	0.038
GR	<i>Nr3c1</i>	0.055	0.191	0.265	-0.069	0.671	0.075	0.664	-0.030	0.845
GSTM1	<i>Gstm2</i>	0.284	0.024	0.914	0.454	0.031	0.354	0.109	-0.020	0.917
GSTM2	<i>Gstm7</i>	-0.344	-0.306	0.099	-0.338	0.054	-0.342	0.065	-0.385	0.018
HDAC4	<i>Hdac4</i>	0.193	-0.153	0.629	0.013	0.966	0.018	0.953	0.128	0.642
HDAC5	<i>Hdac5</i>	-0.265	-0.543	0.005	-0.505	0.006	-0.435	0.025	-0.343	0.043
HL	<i>Lipc</i>	-0.575	-0.320	0.323	-0.763	0.014	-0.649	0.047	-0.784	0.006
HMGCS2	<i>Hmgcs2</i>	0.412	0.102	0.677	-0.066	0.779	0.183	0.455	0.356	0.102
HNF1 α	<i>Hnf1a</i>	0.203	-0.285	0.066	-0.149	0.306	-0.277	0.074	0.115	0.392
HNF4 α	<i>Hnf4a</i>	0.338	-0.104	0.665	0.075	0.744	-0.060	0.802	0.316	0.139
HO-1	<i>Hmox1</i>	0.117	-0.006	0.985	0.739	0.020	-0.080	0.813	0.241	0.418
IGFBP1	<i>Igfbp1</i>	0.377	0.089	0.878	1.118	0.042	0.318	0.581	1.199	0.022
IL-1	<i>Il1b</i>	-0.231	-1.102	0.055	-0.394	0.447	-1.195	0.040	-0.497	0.304
INSR	<i>Insr</i>	0.507	0.106	0.572	-0.076	0.670	0.153	0.414	0.245	0.141
IRAK	<i>Irak1</i>	-0.245	0.026	0.842	0.080	0.521	-0.091	0.486	-0.013	0.908
KEAP1	<i>Keap1</i>	0.076	0.009	0.946	-0.022	0.857	0.008	0.950	0.084	0.452
LBP	<i>Lbp</i>	0.527	-0.388	0.206	0.429	0.136	0.184	0.543	0.919	0.001
LPL	<i>Lpl</i>	-0.185	0.763	0.208	0.938	0.107	-0.668	0.285	-0.623	0.250
LRH-1	<i>Nr5a2</i>	0.161	-0.111	0.515	-0.169	0.297	-0.105	0.537	0.106	0.481
MAF	<i>Maf</i>	0.259	0.052	0.748	0.210	0.175	0.236	0.146	0.176	0.223
MD-2	<i>Ly96</i>	-0.313	-0.231	0.436	-0.253	0.368	-0.798	0.011	-0.412	0.122
MDR1	<i>Abcb1a</i>	0.576	1.621	0.014	2.488	0.000	2.378	0.000	2.826	0.000
MDR3	<i>Abcb4</i>	0.260	0.286	0.150	0.303	0.110	0.114	0.568	0.310	0.080
MEK5	<i>Map2k5</i>	0.099	-0.098	0.545	0.004	0.978	-0.200	0.220	-0.058	0.687
MEKK1	<i>Map3k1</i>	-0.017	0.233	0.317	0.167	0.452	-0.016	0.946	0.145	0.486
MGMT	<i>Mgmt</i>	0.011	0.128	0.611	0.040	0.868	0.215	0.390	-0.103	0.651
MRP2	<i>Abcc2</i>	0.241	0.209	0.333	0.190	0.355	0.132	0.543	0.139	0.470
MRP3	<i>Abcc3</i>	0.083	0.231	0.420	0.632	0.020	0.669	0.019	0.092	0.718
MRP4	<i>Abcc4</i>	0.073	1.657	0.007	2.157	0.000	0.988	0.108	1.217	0.030
MTTP	<i>Mtp</i>	0.098	-0.256	0.280	-0.348	0.121	-0.111	0.638	0.052	0.801

MYD88	<i>Myd88</i>	0.040	-0.245	0.162	-0.095	0.564	-0.174	0.318	0.009	0.954
NFκBp65	<i>Rela</i>	-0.300	-0.150	0.371	-0.134	0.396	-0.409	0.016	-0.292	0.049
NR0B2	<i>Nr0b2</i>	-0.288	-0.450	0.261	-0.159	0.673	-0.627	0.120	-0.554	0.114
NRF2	<i>Nfe2l2</i>	-0.139	-0.035	0.828	-0.105	0.491	-0.146	0.365	-0.057	0.687
NTCP	<i>Slc10a1</i>	0.248	-0.190	0.627	-0.560	0.135	-0.021	0.958	-0.033	0.924
OATP4	<i>Slco1b2</i>	-0.407	0.083	0.834	-0.513	0.178	-0.394	0.326	-0.677	0.054
OSTB	<i>Slc51b</i>	0.578	0.160	0.838	1.659	0.023	1.641	0.031	2.322	0.001
PAPSS2	<i>Papss2</i>	0.585	0.133	0.603	0.265	0.276	0.622	0.014	0.321	0.157
PEPCK	<i>Pck2</i>	0.047	0.229	0.534	0.905	0.008	0.269	0.464	0.047	0.886
PERK	<i>Eif2ak3</i>	-0.206	0.109	0.663	-0.187	0.438	-0.587	0.024	-0.329	0.145
PGC-1α	<i>Ppargc1a</i>	0.806	-0.172	0.624	0.249	0.452	0.623	0.071	1.064	0.001
PGC-1β	<i>Ppargc1b</i>	0.189	0.051	0.824	-0.193	0.380	-0.001	0.998	-0.106	0.605
PKLR	<i>Pklr</i>	-0.281	-0.556	0.146	-0.928	0.011	-0.253	0.505	-0.495	0.137
PLTP	<i>Pltp</i>	-0.122	-0.973	0.005	-0.269	0.404	-0.156	0.647	-0.992	0.001
PON1	<i>Pon1</i>	0.017	-0.150	0.613	-0.284	0.315	-0.070	0.813	-0.008	0.974
PPAR	<i>Ppara</i>	0.257	-0.004	0.987	-0.055	0.811	0.114	0.637	-0.037	0.864
PPARγ	<i>Pparg</i>	-0.012	0.249	0.483	0.534	0.113	0.024	0.947	-0.111	0.729
PXR	<i>Nr1i2</i>	0.805	0.306	0.204	0.498	0.030	0.782	0.001	0.783	0.000
RARα	<i>Rara</i>	-0.358	0.048	0.765	0.051	0.739	-0.203	0.217	-0.363	0.013
RXRα	<i>Rxra</i>	0.348	-0.026	0.890	-0.001	0.996	0.041	0.828	0.135	0.420
SCD1	<i>Scd1</i>	-0.123	-0.561	0.125	-0.670	0.053	-0.278	0.444	-0.438	0.169
SDC1	<i>Sdc1</i>	0.257	-0.136	0.497	0.441	0.020	0.208	0.297	0.375	0.035
SITPEC	<i>Ecsit</i>	0.136	0.053	0.751	-0.119	0.457	-0.069	0.683	0.111	0.451
SMRT	<i>Ncor2</i>	-0.095	-0.029	0.872	0.219	0.197	-0.123	0.495	-0.074	0.643
SOD3	<i>Sod3</i>	-0.247	-0.172	0.466	0.149	0.501	-0.314	0.186	-0.498	0.017
SR-BI	<i>Scarb1</i>	0.155	-0.154	0.397	0.015	0.930	-0.146	0.422	0.125	0.438
SRC-1	<i>Ncoa1</i>	0.269	-0.018	0.903	-0.090	0.507	0.104	0.465	0.194	0.123
SREBP1	<i>Srebf1</i>	-0.463	-0.260	0.435	-0.102	0.745	-0.343	0.304	-0.914	0.002
SULT2A1	<i>Sult2a3</i>	0.570	0.000	1.000	0.000	1.000	4.322	0.017	6.585	0.001
SUMO1	<i>Sumo1</i>	0.202	0.335	0.047	0.142	0.380	0.341	0.044	0.180	0.235
TEBP	<i>Ptges3</i>	-0.223	0.113	0.432	0.002	0.991	0.056	0.700	-0.021	0.869
TLR4	<i>Thr4</i>	-0.006	-0.007	0.979	0.146	0.576	0.044	0.875	0.005	0.986
TRAF2	<i>Traf2</i>	-0.004	0.326	0.163	0.400	0.071	0.112	0.638	0.206	0.330
TRAF6	<i>Traf6</i>	0.420	0.135	0.414	0.082	0.601	0.150	0.365	0.383	0.009
UGT1A1	<i>Ugt1a1</i>	0.670	-0.010	0.972	0.310	0.249	0.523	0.063	0.805	0.001
UGT1A9	<i>Ugt1a9</i>	0.427	0.722	0.114	0.776	0.075	1.007	0.027	1.313	0.002
VLDLR	<i>Vldlr</i>	0.784	0.798	0.260	1.420	0.036	2.706	0.000	2.917	0.000
XAP2	<i>Aip</i>	-0.276	-0.335	0.083	0.042	0.815	-0.139	0.465	-0.453	0.008