

**Table S1. List of 167 probes commonly affected in LKO-CT mice, WT-HFD mice and LKO-HFD mice compared to WT-CT mice.**

The fold change between LKO-CT, WT-HFD and LKOK-HFD compared to WT-CT is indicated in the columns as log<sub>2</sub>

Probe.Set.ID	Gene Symbol	Gene.Symbol	LKO-CT	WT-HFD	LKO-HFD
17478195	Saa2	Saa2	7,370013	5,755123	5,853503
17491205	Saa1	Saa1	6,102069	4,791239	4,529969
17414747	Orm2	Orm2	3,319145	1,921123	1,957125
17491193	Saa3	Saa3	3,043901	2,032648	3,472505
17438987	Cxcl1	Cxcl1	2,279682	1,830092	1,468642
17278328	Serpina3n	Serpina3n	1,31942	0,75019	0,88362
17227892	Prg4	Prg4	1,317288	1,242346	1,192194
17343976	C4a	C4a	1,089535	2,609828	1,471425
17449725	Cxcl11	---	1,021574	0,927764	1,280023
17360785	Pnliprp2	Pnliprp2	0,969179	0,781447	1,608033
17329433	Bcl6	---	0,93163	1,173004	0,85441
17344642	H2-T10	H2-T10	0,768767	0,98344	0,814441
17450501	Gbp10	Gbp10	0,674585	1,151772	1,796059
17447081	Spon2	Spon2	-0,668347	-1,704003	-1,338662
17337089	H2-Q1	H2-Q1	-0,718314	-1,116485	-1,008623
17364392	Cyp2c38	Cyp2c38	-2,092596	-2,937161	-1,282779
17475373	Cyp2b13	Cyp2b13	-2,021517	-1,671743	-1,445154
17427401	Cyp2j9	---	-1,264199	-1,232145	-0,840846
17428457	Cyp4a14	Cyp4a14	-1,10848	-2,795866	-2,019194
17475399	Cyp2a4	Cyp2a4	-1,089105	-1,409801	-1,3409
17455175	Cyp3a11	Cyp3a11	-0,904453	-1,111336	-0,880387
17417240	Cyp4a31	Cyp4a31	-0,836602	-1,641211	-1,728979
17455143	Cyp3a16	Cyp3a41a	-0,813635	-0,864706	-0,804484
17417223	Cyp4a10	Cyp4a10	-0,77271	-1,16689	-1,04662
17455127	Cyp3a16	Cyp3a41a	-0,760869	-0,86204	-0,844117
17488105	Cyp2a22	Cyp2a22	-0,672239	-0,683303	-0,666242
17359239	Cyp2c55	Cyp2c55	-0,662159	-0,845033	-0,638905
17319691	Cyp2d40	Cyp2d40	0,613032	1,292794	0,895793
17404245	Cyp7b1	Cyp7b1	0,86116	0,85953	0,81984
17229059	Fmo3	Fmo3	-2,795058	-2,631319	-2,700262
17238172	Rdh16	Rdh16	-1,046525	-1,11459	-0,722785
17502573	Hmox1	Hmox1	-0,868668	-0,797006	-0,768454
17329220	Ehhadh	Ehhadh	-0,847875	-1,137427	-0,871403
17212982	Aox1	Aox1	-0,78278	-0,850831	-0,634437
17371427	Dhrs9	---	-0,648435	-1,181712	-1,110471
17478352	Htatip2	Htatip2	-0,642795	-0,803917	-0,802385
17547965	LOC102642943	Cbr1	-0,634542	-1,237948	-0,982027
17434490	Steap4	Steap4	1,111192	1,138382	1,273066

17232215	Moxd1	Moxd1	5,003753	5,202583	3,403008
17214018	Gm8883	---	0,663969	0,747778	0,757602
17229403	Mgst3	---	-0,81163	-1,252537	-1,096976
17232843	Zbtb24	Zbtb24	-0,699505	-0,686836	-0,832853
17235408	Dot1l	---	-0,593785	-0,792152	-1,044925
17235462	Oaz1	---	-0,598822	-1,097752	-1,183788
17238832	---	---	-0,897157	-0,869305	-1,070047
17243525	Slc41a2	---	0,732715	0,798443	0,604933
17245665	Xrcc6bp1	Xrcc6bp1	0,670022	0,955973	0,899869
17246963	LOC102639290	Gm11963	0,73098	1,227304	0,955108
17258285	Gm23699	---	0,842439	1,42587	0,878269
17260075	Gas2l1	Gas2l1	-0,591902	-0,786731	-1,076754
17262755	Slc22a5	Slc22a5	-0,686853	-1,342648	-1,283833
17269866	Gm11619	Gm11619	0,755376	2,239836	1,740969
17274184	Socs2	---	-1,611146	-1,855159	-1,367769
17274415	Asap2	Asap2	-0,602978	-1,049368	-1,123707
17277140	Acot1	Acot1	-1,195364	-1,406858	-1,235975
17285783	Vmn1r213	Vmn1r213	0,649667	0,670379	0,624876
17289160	Gm15622	---	0,727303	1,231948	0,750775
17300153	A430107P09Rik	---	-0,630138	-0,863211	-0,756258
17306098	Rnase1	---	0,983079	0,797824	2,061199
17308714	Slc25a30	Slc25a30	-0,69248	-0,897905	-0,938004
17315178	Nr4a1	Nr4a1	-0,644872	-1,278637	-0,651269
17320652	Abcd2	---	-1,371312	-1,935267	-0,723876
17321780	Cela1	Cela1	1,843057	1,986411	2,853397
17322146	Csad	Csad	-1,142144	-3,606592	-2,606896
17326636	Gm24272	---	-0,632934	-0,866791	-0,67393
17327255	Cbr1	Cbr1	-0,72745	-1,420232	-0,969035
17327909	Ppl	Ppl	-0,604634	-0,814832	-0,607297
17328062	Emp2	Emp2	-1,19142	-1,575097	-1,116028
17328933	Mir185	---	0,887884	1,103296	0,775653
17335790	LOC102631757	---	0,666437	0,856176	0,814978
17342890	Clps	Clps	2,348714	2,192681	3,579279
17346136	Plin5	---	-0,617878	-0,825814	-0,777044
17350914	Gm23521	---	-0,889917	-0,734367	-0,690796
17350932	BC023105	BC023105	0,701372	0,986289	1,359491
17355984	Chka	Chka	-0,603482	-1,451771	-1,277219
17357502	Cpsf7	---	-0,814393	-0,598956	-0,786651
17357810	Mpeg1	Mpeg1	0,817937	0,688536	0,613656
17360751	Pnlip	Pnlip	3,017079	2,597514	3,643329
17360770	Pnliprp1	Pnliprp1	2,599657	2,0128	3,761002
17361805	Neat1	---	-0,92633	-0,937817	-1,19616
17362369	Slc22a26	Slc22a26	-2,082142	-2,234097	-2,048697
17362383	Slc22a27	Slc22a27	-0,808155	-0,610062	-0,592533
17364426	---	Cyp2c69	-0,685025	-1,6416	-1,376226
17366922	Mir669m-1	Mir669m-1	-0,98159	-1,060051	-1,143197

17371310	B3galt1	---	1,231124	0,791246	1,102267
17373930	Them7	0610012H03Rik	0,677376	1,275117	1,286556
17379169	Sgk2	Sgk2	-0,72076	-1,027613	-0,782916
17382359	Gm24875	---	0,615296	0,806904	0,700387
17383381	Cel	Cel	2,495372	2,242565	3,499396
17383892	Lcn2	Lcn2	4,297404	2,585926	3,399954
17385099	Neb	---	0,727603	1,745761	1,745368
17390614	Mfap1b	Mfap1b	-0,721807	-1,120949	-0,782782
17391997	Gpcpd1	---	0,821441	1,3226	1,616572
17394297	Pltp	Pltp	-0,592664	-0,620567	-0,781125
17400124	Selenbp2	Selenbp2	0,913904	1,590434	1,123854
17400549	Hist2h3c1	---	1,067777	1,041029	0,744624
17401890	---	Amy2a5	2,692086	1,70158	2,584182
17401893	---	Amy2a5	2,692086	1,70158	2,584182
17401896	---	Amy2a5	2,692086	1,70158	2,584182
17401899	---	Amy2a5	2,692086	1,70158	2,584182
17403224	Gbp7	Gbp7	0,815425	0,673136	1,094339
17404350	Cpb1	Cpb1	2,833201	2,606331	3,737773
17409130	Gstm3	Gstm3	-1,551112	-2,503804	-2,162573
17409142	---	Gstm2	-0,685626	-0,792389	-0,780586
17409513	Amy2a1	Amy2a1	2,065059	1,730069	2,293989
17409526	Amy2a1	Amy2a1	1,82967	1,60518	2,14506
17409540	Amy2a1	Amy2a1	1,757652	1,520942	2,084102
17409555	Amy2a1	Amy2a1	1,617243	1,386103	1,924683
17414512	Mup-ps12	Mup-ps5	1,207248	1,664829	1,388515
17414520	Gm13775	Gm13775	0,606252	1,103807	1,43909
17419890	Il22ra1	Il22ra1	-0,688984	-1,507347	-1,266749
17423317	LOC102639547	---	-0,761879	-0,752152	-0,713646
17423724	---	---	0,734651	0,978675	1,306408
17429632	Mfsd2a	Mfsd2a	-0,896362	-0,965651	-0,605792
17431693	Cela3b	Cela3b	1,657087	1,463028	2,110589
17432320	Cela2a	Cela2a	2,264564	1,819472	3,034553
17433942	Gm25982	---	-1,965972	-2,000892	-1,839728
17439116	Fam47e	Fam47e	1,024523	1,236136	0,859359
17440293	Idua	Idua	-0,694638	-0,687066	-0,630763
17445565	Gm15611	Gm15611	0,795923	-1,797011	-0,74186
17451839	---	---	-0,670977	-1,857221	-1,638529
17454214	Gm4963	Gm4963	-0,611955	-0,868712	-0,844976
17455159	Cyp3a44	Cyp3a44	-0,824795	-0,927377	-0,952801
17455296	Gm24556	---	0,907333	1,029282	0,64672
17455314	Urad	Prhoxnb	0,614561	0,976924	0,946754
17455386	Slc46a3	Slc46a3	0,616081	1,544812	1,37318
17456868	Cpa2	Cpa2	0,855819	0,794749	1,000604
17456918	Cpa1	Cpa1	2,268935	2,316815	3,45703
17457731	Try4	Try4	1,62592	1,683831	2,854554
17457753	Gm5409	Gm5409	1,886356	1,442832	2,528442

17457787	Tcrb-J	Tcrb-J	0,59831	0,758652	0,859524
17458573	Snx10	Snx10	0,617273	0,587616	0,962612
17459769	Reg1	Reg1	2,964686	1,46582	3,399425
17464654	Pdk4	Pdk4	-1,603508	-1,31989	-1,550386
17475870	Sycn	Sycn	2,348859	2,147174	3,316041
17477391	Klk1	Klk1	3,541898	2,732375	4,891063
17478819	E030018B13Rik	---	1,384518	1,21318	0,761205
17483381	---	---	-0,615143	-0,850538	-0,755066
17483383	Snora30	---	-0,778484	-0,814204	-1,366106
17490899	Fgf21	Fgf21	-0,990379	-2,159343	-2,179308
17491378	E2f8	E2f8	-0,852344	-0,732178	-0,791383
17494643	Gvin1	Gm4070	1,277774	1,389079	1,674573
17494651	Gm8995	---	0,800728	0,929693	1,315624
17494656	Gvin1	Gm4070	1,496478	1,491021	1,806654
17494664	9130208D14Rik	---	0,715289	0,795468	1,181914
17494894	St5	---	-0,789774	-0,851595	-1,137864
17499111	Gm26483	---	-0,749782	-1,065368	-0,863252
17503937	Mt2	Mt2	2,697968	1,561788	2,033058
17503942	Mt1	---	2,408367	1,726191	2,31845
17504019	Ap3s1-ps2	---	-1,370348	-1,933948	-1,659084
17505769	---	Ctrb1	1,198952	0,706983	1,901097
17506510	Snord68	---	-0,593339	-1,019273	-1,648047
17512544	Ctrl	Ctrl	2,610587	2,439377	3,654411
17513149	Ctrb1	Ctrb1	2,344375	2,37443	3,429032
17519649	Gsta4	Gsta4	-0,802135	-0,776904	-0,654737
17519673	Gsta1	Gsta2	-0,664051	-1,977488	-1,286894
17526695	Nnmt	Nnmt	1,931789	1,846236	1,456947
17530990	Gnat1	Gnat1	0,83628	0,686003	0,585912
17534051	Il13ra1	Il13ra1	0,710979	0,898688	0,92742
17544837	Serpina7	Serpina7	-1,064285	-1,540051	-0,787303
17548238	Fabp5	Gm3601	2,041908	-0,898736	-0,808686
17548717	Fabp5	Gm3601	2,097791	-1,02991	-0,879211
17549338	Mir1247	---	0,701728	1,893949	0,65486
17550284	Gm26483	---	-0,749782	-1,065368	-0,863252
17550318	Mir2137	---	0,668733	1,099401	1,11576
17550426	Neat1	---	-0,78924	-0,804421	-1,135099
17550428	Neat1B1B2:B171	---	-1,06308	-1,00042	-0,99417