

**S2 Table Genes up and down regulated in *Hfe* knockout CD8<sup>+</sup> T lymphocytes in comparison with C57BL/6 mice under normal diet condition**

Transcripts ID	Gene abbreviation	Gene name	Fold Change	p-value	Gene ID
10493831	S100a8	S100 calcium binding protein A8 (calgranulin A)	16,53	0,00	20201
10499861	S100a9	S100 calcium binding protein A9 (calgranulin B)	12,96	0,00	20202
10362674	Rnu3a	U3A small nuclear RNA	5,31	0,00	19850
10436100	Retnlg	resistin like gamma	4,67	0,00	245195
10456005	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	4,62	0,01	16149
10372648	Lyz2	lysozyme 2	4,33	0,01	17105
10444291	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	3,75	0,01	14961
10493812	S100a4	S100 calcium binding protein A4	3,44	0,00	20198
10450154	H2-Aa	histocompatibility 2, class II antigen A, alpha	3,35	0,01	14960
10570434	Ifitm1	interferon induced transmembrane protein 1	3,12	0,00	68713
10551025	Cd79a	CD79A antigen (immunoglobulin-associated alpha)	2,97	0,00	12518
10468517	Mxi1	Max interacting protein 1	2,90	0,03	17859
10512487	Rmrp	RNA component of mitochondrial RNAase P	2,81	0,02	19782
10444236	H2-DMb1/DMb2	histocompatibility 2, class II, locus Mb1 and Mb2	2,76	0,00	15000   14999
10508465	Marcks1	MARCKS-like 1	2,68	0,00	17357
10551883	Tyrobp	TYRO protein tyrosine kinase binding protein	2,63	0,02	22177
10508721	Snora44	small nucleolar RNA, H/ACA box 44	2,59	0,03	100217418
10550509	Pglyrp1	peptidoglycan recognition protein 1	2,50	0,00	21946
10360070	Fcer1g	Fc receptor, IgE, high affinity I, gamma polypeptide	2,49	0,04	14127
10467979	Scd1	stearoyl-Coenzyme A desaturase 1	2,47	0,03	20249
10429520	Ly6d	lymphocyte antigen 6 complex, locus D	2,40	0,03	17068
10538871	Gm4964	predicted gene 4964	2,37	0,04	243420
10440576	Rnf160	ring finger protein 160	2,36	0,00	78913
10392142	Cd79b	CD79B antigen	2,20	0,01	15985
10558769	Ifitm1	interferon induced transmembrane protein 1	2,19	0,01	68713
10379727	Gm11428	predicted gene 11428	2,10	0,03	100034251
10414262	Ear2	eosinophil-associated, ribonuclease A family, member 2	2,08	0,03	13587
10349593	Faim3	Fas apoptotic inhibitory molecule 3	2,06	0,00	69169
10548817	Plbd1	phospholipase B domain containing 1	2,04	0,05	66857
10466172	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	1,99	0,05	12482
10548535	Klra3	killer cell lectin-like receptor, subfamily A, member 3	1,97	0,03	16634
10430818	Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c	1,97	0,01	72049
10556113	Rbm3	RNA binding motif protein 3	1,95	0,00	19652
10481627	Lcn2	lipocalin 2	1,91	0,00	16819
10535458	Zdhhc4	zinc finger, DHHC domain containing 4	1,89	0,03	72881
10563338	Ppp1r15a	protein phosphatase 1, regulatory (inhibitor) subunit 15A	1,87	0,03	17872
10422227	Spry2	sprouty homolog 2 (Drosophila)	1,86	0,04	24064
10398286	Mir342	microRNA 342	-4,69	0,01	723909
10515694	Szt2	seizure threshold 2	-3,04	0,02	230676
10503198	Chd7	chromodomain helicase DNA binding protein 7	-3,02	0,01	320790
10405779	Mir23b	microRNA 23b	-2,78	0,03	387217
10456490	Cep192	centrosomal protein 192	-2,66	0,02	70799
10512827	Gm568	predicted gene 568	-2,50	0,03	230143
10351043	Snord47	small nucleolar RNA, C/D box 47	-2,50	0,02	100217446
10410311	Zfp456	zinc finger protein 456	-2,43	0,02	408065
10447036	n-R5s65	nuclear encoded rRNA 5S 65	-2,39	0,04	
10523134	Pf4	platelet factor 4	-2,35	0,04	56744
10503218	Chd7	chromodomain helicase DNA binding protein 7	-2,34	0,05	320790
10434396	Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3	-2,29	0,00	27406
10412900	Nkiras1	NFKB inhibitor interacting Ras-like protein 1	-2,21	0,00	69721
10502934	Rabggtb	RAB geranylgeranyl transferase, b subunit	-2,21	0,00	19352
10531776	Fam175a	family with sequence similarity 175, member A	-2,10	0,00	70681
10548333	Cd69	CD69 antigen	-2,08	0,00	12515
10457838	Zfp397os	zinc finger protein 397 opposite strand	-2,04	0,00	328918
10586250	Dennd4a	DENN/MADD domain containing 4A	-2,03	0,02	102442

<b>10546706</b>	Rybp	RING1 and YY1 binding protein	-2,01	0,02	56353
<b>10574141</b>	Nlrc5	NLR family, CARD domain containing 5	-1,99	0,04	434341
<b>10442032</b>	BC002059	cDNA sequence BC002059, mRNA (cDNA clone MGC:6110 )	-1,90	0,01	213811
<b>10410530</b>	Slc6a19	solute carrier family 6 (neurotransmitter transporter), member 19	-1,90	0,04	74338
<b>10542156</b>	Clec2d	C-type lectin domain family 2, member d	-1,89	0,00	93694
<b>10525487</b>	4932422M17Rik	RIKEN cDNA 4932422M17 gene	-1,89	0,03	74366
<b>10522009</b>	Pgm1	phosphoglucomutase 1	-1,87	0,02	66681
<b>10515363</b>	Mmachc	methylmalonic aciduria cblC type, with homocystinuria	-1,87	0,05	67096
<b>10443459</b>	Sfrs3	splicing factor, arginine/serine-rich 3 (SRp20)	-1,85	0,00	20383
<b>10492582</b>	Mir15b	microRNA 15b	-1,85	0,05	387175
<b>10501048</b>	Dennd2d	DENN/MADD domain containing 2D	-1,84	0,02	72121