

Supplementary table 1 - List of the 136 Differentially Expressed Genes between HS and CTRL rats - Table shows for each gene: Ensembl GeneID, Gene_Symbol, log2FC.Deseq2 and FDR.Deseq2 (logarithmic fold change expression and p-adjusted value according to DESeq2), log2FC.EdgeR and FDR.EdgeR (logarithmic fold change expression and p-adjusted value according to EdgeR), gene description.

Ensembl_GeneID	Gene_Symbol	log2FC.Deseq2	FDR.Deseq2	log2FC.EdgeR	FDR.EdgeR	Gene description
ENSRNOG00000005935	A3galt2	1.41	3.95E-03	1.95	2.55E-04	alpha 1.3-galactosyltransferase 2
ENSRNOG00000005955	A630010A05Rik	3.56	8.77E-17	9.17	6.74E-32	RIKEN cDNA A630010A05 gene
ENSRNOG00000005986	AABR07034730.2	-1.42	1.26E-02	-2.16	4.21E-03	protein coding
ENSRNOG00000005983	AABR07044635.1	0.71	3.12E-02	1.34	1.44E-03	Novel lincRNA
ENSRNOG00000007637	Acer2	-0.93	1.30E-03	-0.90	4.55E-03	alkaline ceramidase 2
ENSRNOG00000012991	Adgra2	-0.81	9.21E-03	-0.79	1.67E-02	adhesion G protein-coupled receptor A2
ENSRNOG00000011411	Adrg6	1.37	3.35E-03	1.83	3.46E-04	adhesion G protein-coupled receptor G6
ENSRNOG00000002911	Alb	2.89	4.13E-10	5.77	3.61E-14	albumin
ENSRNOG00000000907	Alox5ap	0.88	9.10E-03	1.06	4.78E-03	arachidonate 5-lipoxygenase activating protein
ENSRNOG000000026702	Amica4	-1.02	1.83E-03	-1.04	3.48E-03	adhesion molecule, interacts with CXADR antigen 1
ENSRNOG000000008837	Ass1	1.50	6.39E-03	2.37	1.39E-04	argininosuccinate synthase 1
ENSRNOG000000002094	Atg3	0.73	2.48E-02	0.89	1.16E-02	autophagy related 3
ENSRNOG000000031598	Atg9b4	0.84	1.95E-02	1.03	3.30E-03	ATPase, class I, type 8B, member 4
ENSRNOG000000032247	Bank1	-1.11	5.83E-03	-1.21	2.84E-03	B-cell scaffold protein with ankyrin repeats 1
ENSRNOG00000015514	Bcat1	1.06	1.43E-02	1.37	2.29E-03	branched chain amino acid transaminase 1, cytosolic
ENSRNOG00000016031	Bicd2	-0.89	5.85E-03	-0.88	9.17E-03	bicaudal D homolog 2 (Drosophila)
ENSRNOG000000047800	C5ar1	0.97	3.84E-02	1.28	3.28E-03	complement component 5a receptor 1
ENSRNOG000000002916	Car4	0.98	2.08E-02	1.26	5.46E-03	carbonic anhydrase 4
ENSRNOG000000003221	Cas1	1.11	3.24E-02	1.61	1.15E-03	chemokine (C-C motif) ligand 6
ENSRNOG000000037331	Cd33	0.71	4.76E-02	0.89	1.57E-02	CD33 molecule
ENSRNOG000000011917	Cd79b	-1.12	8.71E-03	-1.26	6.17E-03	Cd79b molecule, immunoglobulin-associated beta
ENSRNOG00000010918	Cebpa	1.09	4.15E-02	1.57	1.44E-03	CCAAT/enhancer binding protein (C/EBP), alpha
ENSRNOG000000033564	Cld	0.95	3.24E-02	1.22	2.41E-03	complement factor D (adipsin)
ENSRNOG000000027655	Clec4b2	1.32	1.35E-07	1.51	1.45E-08	C-type lectin domain family 4, member B2
ENSRNOG000000002611	Clp2	-0.83	6.29E-03	-0.80	2.69E-02	CAP-GLY domain containing linker protein 2
ENSRNOG000000008767	Csrf7	0.85	1.67E-02	1.05	4.21E-03	chemokine (C-X-C motif) receptor 6
ENSRNOG000000014479	Cttnbp2nl	0.90	4.22E-02	1.16	5.82E-03	CTTNBP2 N-terminal like
ENSRNOG000000015029	Dbt	1.18	1.32E-02	1.73	1.00E-02	dihydrolipamide branched chain transacylase E2
ENSRNOG000000055562	Dkc1	-1.02	1.43E-02	-1.10	1.04E-02	dykerkerosis congenita 1, dyskerin
ENSRNOG000000005061	Dist	0.66	3.83E-02	0.81	2.88E-02	dihydrolipamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
ENSRNOG000000024905	Drc1	1.18	1.51E-02	1.61	1.41E-03	dynein regulatory complex subunit 1
ENSRNOG000000033765	Eif1	0.95	8.71E-03	1.16	2.32E-03	eukaryotic translation initiation factor 1
ENSRNOG000000027855	Fcgr1	1.06	1.38E-03	1.27	2.40E-04	Fc fragment of IgA receptor
ENSRNOG000000005932	Fcrlb	-0.97	2.18E-02	-1.05	5.15E-02	ficolin B
ENSRNOG000000034230	Fcrl1	-0.94	2.33E-02	-1.00	2.11E-02	Fc receptor-like 1
ENSRNOG000000021314	Fdft1	0.73	4.82E-02	0.90	1.67E-02	farnesyl diphosphate farnesyl transferase 1
ENSRNOG000000021021	Ffar2	1.09	2.03E-02	1.44	9.58E-04	free fatty acid receptor 2
ENSRNOG000000001420	Fis1	0.82	1.25E-02	0.98	6.87E-03	fission, mitochondrial 1
ENSRNOG000000018076	Fmo5	1.00	1.57E-02	1.26	9.58E-04	fawn containing monooxygenase 5
ENSRNOG000000051056	Fmo6	1.26	2.18E-02	1.93	2.91E-03	fibrinectin type III domain containing 4
ENSRNOG000000002923	Fmo6b	-0.86	3.46E-02	-0.89	4.47E-02	FERM domain containing 6
ENSRNOG000000060561	Gdpd1	0.88	5.85E-03	1.05	1.11E-03	glycerophosphodiester phosphodiesterase domain containing 1
ENSRNOG000000018599	Gga2	-1.02	3.45E-03	-1.04	4.78E-03	golgi associated, gamma adaptin ear containing, ARF binding protein 2
ENSRNOG000000047697	Ggt1	1.12	1.04E-04	1.31	2.70E-06	gamma-glutamyltransferase 1
ENSRNOG000000001313	Gnaz	-0.81	5.30E-03	-0.78	3.54E-02	guanine nucleotide binding protein (G protein), alpha z polypeptide
ENSRNOG000000038540	Gp5	-0.94	1.63E-02	-0.98	1.61E-02	glycoprotein V (platelet)
ENSRNOG000000003816	Gprmb	1.85	1.03E-04	2.63	1.23E-07	glycoprotein (transmembrane) nmb
ENSRNOG000000002834	Gprh4	1.34	3.45E-03	1.57	1.27E-02	interleukin 1 beta
ENSRNOG000000016122	Hmgcr	0.69	3.42E-02	0.85	1.96E-02	3-hydroxy-3-methylglutaryl-CoA reductase
ENSRNOG000000001270	Hcnr1	-1.10	3.78E-02	-1.41	3.26E-02	hydrogen voltage-gated channel 1
ENSRNOG000000031420	Hyal2	1.31	9.48E-03	1.81	8.36E-05	hyaluronoglucosaminidase 2
ENSRNOG000000013949	Iah2	-0.85	2.67E-02	-0.88	3.84E-02	isocitrate dehydrogenase 2 (NADP+), mitochondrial
ENSRNOG0000000034190	Ighm	-1.16	1.31E-03	-1.23	3.54E-03	immunoglobulin heavy constant mu
ENSRNOG000000015027	Il1br1	0.88	3.12E-02	1.11	6.28E-03	interleukin 18 receptor 1
ENSRNOG000000009749	Il1b	1.34	3.45E-03	1.57	1.27E-02	interleukin 1 beta
ENSRNOG000000014320	Il1bba	-1.36	3.17E-04	-1.48	1.44E-04	inhibin beta A
ENSRNOG000000001518	Itga6	-1.03	1.30E-04	-1.01	1.14E-02	integrin, alpha 6
ENSRNOG000000036762	Itrp12	0.97	1.52E-02	1.20	7.99E-04	inositol 1,4,5-trisphosphate receptor interacting protein-like 2
ENSRNOG000000002618	Irs1ap2	0.80	8.71E-03	0.95	3.91E-03	influenza virus NS1A binding protein
ENSRNOG000000042848	Jam2	1.20	1.49E-02	1.62	9.58E-04	junctional adhesion molecule 2
ENSRNOG000000006118	Klf10	1.14	1.14E-02	1.49	8.45E-04	Kruppel-like factor 10
ENSRNOG000000002163	Klf3	0.85	2.03E-02	1.03	4.27E-03	Kruppel-like factor 3 (basic)
ENSRNOG000000013742	LARGE	-0.85	1.65E-03	-0.86	1.96E-02	like-glycosyltransferase
ENSRNOG000000009946	Ldlr	1.18	1.30E-02	1.56	1.77E-03	low density lipoprotein receptor
ENSRNOG000000010645	Lgals3	0.90	4.12E-03	1.07	1.57E-03	lectin, galactoside-binding, soluble, 3
ENSRNOG000000042776	Lins	0.98	4.69E-02	1.33	3.90E-03	lines homolog 1
ENSRNOG000000009401	Lmo2	-0.90	1.54E-02	-0.93	1.51E-02	LIM domain only 2
ENSRNOG000000009205	Lmo4	-0.81	4.50E-02	-0.83	4.34E-02	LIM domain only 4
ENSRNOG000000030812	LOC100361105	-1.22	1.70E-02	-1.53	1.57E-03	lgh protein-like
ENSRNOG000000005402	LOC501110	-1.11	2.53E-02	-1.11	2.53E-02	protein to Glutathione S-transferase A1 (GTH1) (HA subunit 1) (GST-epsilon) (GSTA1-1) (GST class-alpha)
ENSRNOG000000020399	Ltb4	1.18	1.79E-02	1.62	9.86E-03	leukotriene B4 receptor
ENSRNOG000000019264	Ltr	1.09	7.65E-03	1.36	3.46E-04	lymphotoxin beta receptor (TNFR superfamily, member 3)
ENSRNOG000000000137	Ly86	-0.98	3.86E-02	-1.12	2.09E-02	lymphocyte antigen 86
ENSRNOG000000003139	Lyc2	-1.26	4.37E-03	-1.45	1.06E-03	lysozyme C type 2
ENSRNOG000000019463	Mad2l1bp	-0.85	3.83E-02	-0.88	4.78E-02	MAD2L1 binding protein
ENSRNOG000000002848	Maai	1.18	2.32E-02	1.69	9.59E-04	monoamine oxidase A
ENSRNOG000000009249	Mgap1	0.92	1.94E-04	1.06	1.72E-02	mitogen activated protein kinase kinase kinase kinase 1
ENSRNOG000000024040	Mb21d2	-0.96	1.03E-02	-1.00	2.72E-03	Mab-21 domain containing 2
ENSRNOG000000020945	Ms4a1	-0.98	1.17E-02	-1.02	1.58E-02	membrane-spanning 4-domains, subfamily A, member 1
ENSRNOG000000038047	Mt1	1.34	1.64E-02	2.09	2.55E-04	metallothionein 1
ENSRNOG000000043098	Mt2A	2.14	1.51E-05	3.51	2.15E-08	metallothionein 2A
ENSRNOG000000009001	Mtss1	-0.81	3.00E-03	-0.78	1.61E-02	metastasis suppressor 1
ENSRNOG000000042912	Mycbpap	-1.72	5.47E-04	-2.31	3.46E-04	Mycbp associated protein
ENSRNOG000000002196	Ndrb9	0.81	2.37E-02	0.99	4.50E-03	nucleoside diphosphate linked moiety X-type motif 9
ENSRNOG000000000417	Nkx2-1	-0.92	2.84E-02	-0.93	3.72E-02	nuclear mitotic apparatus protein 1
ENSRNOG000000017155	Nck2	-0.81	5.85E-03	-0.78	4.36E-02	NCK adaptor protein 1
ENSRNOG000000007393	Ndrg1	1.79	3.44E-07	2.19	8.25E-11	N-myc downstream regulated 1
ENSRNOG000000011688	Nel3	1.07	3.11E-02	1.43	1.67E-02	nei-like DNA glycosylase 3
ENSRNOG000000019907	Nklike	-1.19	1.48E-03	-1.27	9.58E-04	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
ENSRNOG000000052386	Nlr1	-1.21	3.88E-03	-1.34	2.10E-03	NLR family member X1
ENSRNOG000000012772	Npqt	0.84	1.74E-02	1.03	3.06E-03	NAD(P)H dehydrogenase, quinone 1
ENSRNOG000000002176	Nudat9	0.81	2.37E-02	0.99	4.50E-03	nucleoside diphosphate linked moiety X-type motif 9
ENSRNOG000000000417	Numa1	-0.92	2.84E-02	-0.93	3.72E-02	nuclear mitotic apparatus protein 1
ENSRNOG000000013280	Olfm4	1.05	3.33E-03	1.28	5.46E-03	olfactomedin 4
ENSRNOG000000018911	Pfkfb3	0.96	2.86E-02	1.23	1.74E-03	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
ENSRNOG000000053891	Pfh1b	-1.04	1.40E-04	-1.02	2.05E-03	PHD finger protein 11B
ENSRNOG000000012061	Prkcb	-0.92	3.33E-03	-0.91	5.88E-03	protein kinase C, beta
ENSRNOG000000000281	Proth	-1.11	3.87E-02	-1.43	1.19E-02	proline dehydrogenase (oxidase) 1
ENSRNOG000000025184	Prss35	-1.16	1.46E-02	-1.35	3.20E-03	protease, serine, 35
ENSRNOG000000009829	Psg2	0.92	2.64E-02	1.07	2.69E-02	prostaglandin E receptor 2 (subtype EP2)
ENSRNOG000000013415	Ptpn18	-1.24	5.47E-04	-1.31	8.79E-04	protein tyrosine phosphatase, non-receptor type 18
ENSRNOG000000017093	Pxd1	-0.84	2.18E-02	-0.85	3.35E-02	PX domain containing 1
ENSRNOG000000021139	RGD1311575	-0.81	2.18E-02	-0.79	3.86E-02	hypothetical LOC289568
ENSRNOG000000032396	RGD1559575	-0.80	1.71E-02	-0.78	4.67E-02	similar to novel protein
ENSRNOG0000000050000	RGD1564318	-1.14	1.24E-02	-1.32	1.33E-02	lambda-chain C1-region-like
ENSRNOG0000000040121	RGD1565158	2.43	7.10E-07	4.69	3.33E-15	similar to RIKEN cDNA 4921537P18
ENSRNOG000000021403	Rhb	-1.04	5.91E-03	-1.55	3.75E-04	ras homolog family member B
ENSRNOG000000016123	Rnf144b	-1.08	5.30E-03	-1.15	5.88E-03	ring finger protein 144B
ENSRNOG000000016416	Rnh1	0.72	1.12E-02	0.86	8.47E-03	ribonuclease/angiogenin inhibitor 1
ENSRNOG000000000451	RT1-Ba	-1.28	1.77E-03	-1.44	2.10E-03	RT1 class II, locus Ba
ENSRNOG000000032844	RT1-Da	-1.08	1.63E-02	-1.24	2.31E-02	RT1 class II, locus Da
ENSRNOG000000003215	RT1-Db1	-1.08	8.71E-03	-1.18	1.37E-02	RT1 class II, locus Db1
ENSRNOG000000000795	RT1-N3	-1.31	1.65E-03	-1.45	1.06E-03	RT1 class II, locus N3
ENSRNOG000000000219	Rtn1	-1.04	1.43E-02	-1.11	3.29E-02	retinoblastoma motif containing 9-like
ENSRNOG000000006526	Sema3c	1.31	4.24E-03	1.72	1.60E-04	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
ENSRNOG000000011815	Sgk1	-1.38	1.69E-03	-1.57	1.94E-03	serum/glucocorticoid induced regulated kinase 1
ENSRNOG000000002069	Slc35a5	0.95	7.75E-03	1.15	9.90E-04	solute carrier family 35, member A5
ENSRNOG000000028703	Slc39a6	-0.92	1.37E-02	-0.94	2.04E-02	solute carrier family 39 (zinc transporter), member 6
ENSRNOG000000003476	Slc6a4	-0.96	1.77E-03	-0.95	6.51E-03	solute carrier family 6 (neurotransmitter transporter), member 4
ENSRNOG000000000172	Sgrrd	1.02	5.83E-03	1.24	9.58E-04	sulfide quinone reductase-like (yeast)
ENSRNOG000000008910	Swap70	-1.18	1.18E-03	-1.25	9.58E-04	SWAP switching B-cell complex 70
ENSRNOG000000018960	Tcf1	-1.21	1.12E-03	-1.25	3.12E-03	specific repeat containing nuclear envelope protein 1
ENSRNOG0000000061403	Tlr3	1.60	1.24E-09	1.84	5.15E-10	tolllike receptor 3
ENSRNOG000000004249	Tlr7	-1.04	9.65E-03	-1.11	5.07E-03	tolllike receptor 7
ENSRNOG0000000049517	Tnfrap3	-1.39	1.47E-03	-1.59	1.44E-03	tumor necrosis factor, alpha-induced protein 3
ENSRNOG000000012422	Tnk1	-0.83	1.64E-02	-0.83	4.36E-02	TRAF2 and NCK interacting kinase
ENSRNOG000000059344	Tpcn1	-0.75	1.11E-02	-0.71	4.32E-02	two pore segment channel 1
ENSRNOG000000048914	Traf1	-1.35	6.06E-06	-1.40	5.73E-06	TNF receptor-associated factor 1
ENSRNOG000000022939	Tsc2	0.95	3.20E-02	1.23	3.29E-03	tuberous sclerosis containing 2, E3 ubiquitin protein ligase
ENSRNOG000000056135	Tsc22d3	0.69	2.35E-02	0.84	2.21E-02	TSC22 domain family, member 3
ENSRNOG000000051620	Tspan9	-0.86	1.61E-02			