

**Table S9: Genes differentially expressed between HAB and LAB.** The columns contain information about (from left to right): gene symbol, gene number (MGI), chromosome, gene start and end position, number of microarray probes targeting the gene and showing expression differences, number of probes showing more and less expression respectively in the four different brain regions tested.

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Lman2l	2443010	1	36,478,910	36,502,116	2	0	0	0	0	0	0	2	0
1500015O10Rik	1926146	1	43,787,447	43,799,423	1	0	0	1	0	0	0	0	0
Ercc5	103582	1	44,204,692	44,238,105	1	1	0	1	1	0	0	0	0
Aox1	88035	1	58,086,775	58,163,257	1	0	0	0	0	0	0	1	0
Als2cr4	2138365	1	59,157,437	59,176,940	1	0	0	0	0	1	0	1	1
Igfbp2	96437	1	72,871,077	72,899,048	1	0	0	0	0	0	0	0	1
Tns1	104552	1	73,956,805	74,171,021	1	0	0	0	0	0	0	1	0
Rufy4	3588214	1	74,172,115	74,194,797	1	0	0	0	0	0	0	1	0
Col6a3	88461	1	92,663,435	92,740,529	1	0	0	0	0	1	0	1	0
Gin1	2182036	1	99,666,749	99,690,286	1	0	0	1	1	0	0	0	0
C1ql2	3032521	1	122,237,159	122,239,751	1	0	0	0	1	0	0	0	0
Cntn2	104518	1	134,406,002	134,439,517	1	0	0	0	0	1	0	1	1
BC003331	2385108	1	152,208,435	152,240,210	1	1	1	1	1	0	0	0	0
Tpr	1922066	1	152,239,968	152,297,062	1	1	1	1	1	0	0	0	0
Rgs16	108407	1	155,587,479	155,592,598	1	0	0	0	0	0	0	0	1
Tstd1	3648482	1	173,349,164	173,350,485	1	1	0	1	0	0	0	0	0
Kcnh1	1341721	1	194,014,666	194,334,041	1	0	0	0	0	1	0	1	1
Pip4k2a	1298206	2	18,763,882	18,919,753	1	0	0	0	0	1	1	1	1
Etl4	95454	2	19,831,407	20,732,340	1	0	0	0	1	0	0	0	0
Ehmt1	1924933	2	24,646,289	24,775,129	1	0	0	0	0	1	0	0	0
Abca2	99606	2	25,284,223	25,304,060	1	1	1	1	1	0	0	0	0
Fam125b	1919793	2	33,585,473	33,743,466	1	0	0	1	0	0	0	0	0
Lypd6	2443848	2	49,921,982	50,049,084	1	1	0	1	1	0	0	0	0
Rapgef4	1917723	2	71,819,297	72,095,531	1	0	0	0	1	0	0	0	0
Ttc17	1921819	2	94,140,924	94,246,845	1	1	1	1	1	0	0	0	0
Fjx1	1341907	2	102,289,523	102,292,656	1	0	0	0	0	1	0	0	0
Slc1a2	101931	2	102,498,816	102,630,941	2	1	2	2	1	0	0	0	0
Cd59a	109177	2	103,935,958	103,955,511	1	1	0	1	0	0	0	0	0
D430041D05Rik	2181743	2	103,983,230	104,250,150	2	2	0	0	1	0	0	0	0
Atpbd4	1913882	2	114,342,152	114,480,700	1	0	0	0	0	0	0	1	0
Meis2	108564	2	115,688,800	115,891,575	1	0	0	0	0	1	0	0	1
Mtap1a	1306776	2	121,115,336	121,136,568	1	0	0	0	0	1	0	0	0
Dut	1346051	2	125,072,926	125,084,344	1	0	0	0	0	1	1	1	1
Avp	88121	2	130,406,356	130,408,290	1	0	0	0	0	1	0	0	0
Pygb	97828	2	150,612,471	150,657,494	1	0	0	0	0	1	1	1	1
Abhd12	1923442	2	150,658,229	150,730,477	1	0	0	0	0	1	0	0	0
Ninl	1925427	2	150,760,255	150,865,118	1	0	0	0	0	1	1	1	1
Pofut1	2153207	2	153,067,269	153,095,983	1	0	0	0	0	1	0	0	0
Snta1	101772	2	154,202,049	154,233,835	1	0	0	1	1	0	0	0	0
Zfp341	2682937	2	154,439,033	154,472,557	1	1	1	1	1	0	0	0	0
Chmp4b	1922858	2	154,477,441	154,520,521	2	0	0	0	0	1	1	2	1
Ahcy	87968	2	154,885,046	154,900,233	1	1	1	1	1	0	0	0	0
Map1lc3a	1915661	2	155,102,033	155,103,809	1	1	0	0	1	0	0	0	0
Uqcc	1929472	2	155,672,630	155,756,046	1	1	0	0	0	0	0	0	0
Spag4	2444120	2	155,890,911	155,896,353	1	0	0	1	1	0	0	0	0
9830001H06Rik	2444575	2	156,841,535	156,904,990	1	0	0	0	0	1	0	1	0
Ghrh	95709	2	157,155,233	157,173,242	1	0	0	0	0	1	0	1	0
Manbal	1916411	2	157,193,330	157,222,499	1	1	1	1	1	0	0	0	0
Ctnnbl1	1913892	2	157,563,137	157,717,350	1	0	0	0	0	1	0	1	1
Ptgis	1097156	2	167,017,305	167,066,104	2	0	0	2	0	0	0	0	0
Nfatc2	102463	2	168,301,910	168,427,157	1	0	0	1	0	0	0	0	0
Dok5	1924079	2	170,557,307	170,705,269	1	0	0	0	0	0	0	1	1
Col20a1	1920618	2	180,721,240	180,752,245	1	1	0	0	0	0	0	0	0
Zfp704	2180715	3	9,429,938	9,610,085	1	0	0	0	0	0	0	1	0
3110057O12Rik	1915468	3	40,698,067	40,742,060	1	0	0	0	1	0	0	0	0
Slc7a11	1347355	3	50,168,858	50,247,535	1	1	1	1	1	0	0	0	0
Ccrn4l	109382	3	51,028,369	51,055,566	1	0	0	0	0	1	1	1	1
P2ry1	105049	3	60,806,717	60,812,901	1	0	0	0	0	0	1	0	1
Fstl5	2442179	3	75,878,192	76,513,941	1	1	0	1	1	0	0	0	0
Gm3491	3781668	3	78,983,150	79,091,953	1	0	0	0	1	0	0	0	0

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Fcrls	1933397	3	87,054,680	87,067,660	1	1	1	1	1	0	0	0	0
Tuft1	109572	3	94,416,679	94,462,794	1	0	0	0	0	0	0	1	0
Hmgcs2	101939	3	98,084,358	98,114,661	1	0	0	0	0	1	0	1	0
Synpo2	2153070	3	122,779,437	122,939,067	1	1	0	0	0	0	0	0	0
Eltld1	2655562	3	151,100,851	151,208,050	1	0	0	0	0	0	0	1	0
St6galnac3	1341828	3	152,865,473	153,388,026	1	0	0	0	0	1	0	0	1
Lrrc40	1914394	3	157,699,626	157,731,442	1	0	0	0	0	1	1	1	1
Runx1t1	104793	4	13,670,583	13,820,796	1	0	0	0	0	1	0	1	1
Tmem55a	1919769	4	14,791,223	14,842,323	1	0	0	0	0	1	0	0	0
Pou3f2	101895	4	22,413,791	22,415,480	1	0	0	0	0	0	0	1	0
Rgp1	1915956	4	43,591,587	43,600,359	1	1	0	1	1	0	0	0	0
Hint2	1916167	4	43,667,099	43,669,338	1	1	1	1	1	0	0	0	0
Glpr2	1917770	4	43,970,273	43,991,990	1	0	0	0	0	1	1	1	1
Frmd3	2442466	4	73,659,346	73,848,118	1	0	0	0	0	1	0	1	0
Tusc1	2684283	4	93,000,829	93,002,202	1	0	0	0	0	1	0	0	1
Fam151a	2657115	4	106,406,494	106,420,897	1	0	0	0	0	0	0	1	0
Acot11	1913736	4	106,417,160	106,477,603	1	0	0	0	0	0	0	1	0
Mutyh	1917853	4	116,480,328	116,492,045	1	1	0	1	0	0	0	0	0
Hectd3	1923858	4	116,667,922	116,677,882	1	0	0	0	0	0	0	1	0
Hyi	1915430	4	118,032,595	118,035,349	1	0	0	1	1	0	0	0	0
Tmem125	1923409	4	118,213,546	118,216,649	1	1	0	1	1	0	0	0	0
Ccdc30	1920582	4	118,995,498	119,088,126	1	0	0	0	0	1	1	1	1
Hivep3	106589	4	119,406,389	119,810,650	1	0	0	0	1	0	0	0	0
Cap1	88262	4	122,536,290	122,563,299	1	0	0	1	0	0	0	0	0
C1qb	88224	4	136,436,044	136,442,102	1	0	0	0	0	1	0	1	1
Sh2d5	2446215	4	137,806,318	137,817,247	1	0	0	0	0	1	0	0	0
Kif17	1098229	4	137,806,350	137,857,882	1	0	0	0	0	1	0	0	0
Aldh4a1	2443883	4	139,178,781	139,205,605	1	0	0	0	0	1	1	1	1
Aurkaip1	1913327	4	155,205,381	155,207,239	1	0	0	0	0	1	1	1	1
Gltpd1	1933107	4	155,238,832	155,243,549	1	1	1	1	1	0	0	0	0
Fam132a	1914639	4	155,336,427	155,340,738	1	0	0	0	0	0	0	1	0
B3galt6	2152819	4	155,363,575	155,366,758	1	0	0	0	0	1	1	1	1
Sdf4	108079	4	155,366,981	155,387,719	1	1	0	1	1	0	0	0	0
Klhl17	2678948	4	155,603,445	155,608,903	1	1	0	0	1	0	0	0	0
Abcb4	97569	5	8,893,717	8,959,225	1	1	0	1	1	0	0	0	0
Mll5	1924825	5	22,940,259	23,010,053	1	0	0	0	0	1	0	1	0
Fam126a	2149839	5	23,421,094	23,536,508	1	0	0	0	0	1	0	1	0
Kcnh2	1341722	5	23,825,407	23,857,422	1	1	0	1	0	0	0	0	0
Abcb8	1351667	5	23,899,481	23,915,872	1	0	0	0	0	1	0	0	0
Rbm33	1919670	5	28,643,661	28,745,784	1	0	0	0	0	1	0	1	0
Slc30a3	1345280	5	31,388,479	31,395,988	1	1	0	0	0	0	0	0	0
Jakmip1	1923321	5	37,438,671	37,539,255	1	0	0	0	0	1	0	1	0
Shisa3	3041225	5	67,999,122	68,014,791	1	0	0	0	0	1	0	1	1
Atp8a1	1330848	5	68,009,379	68,238,671	1	0	0	0	0	1	0	1	1
Cox18	2448532	5	90,643,749	90,653,026	1	0	0	0	0	1	0	0	1
Coq2	1919133	5	101,083,742	101,104,159	1	0	0	1	1	0	0	0	0
Hsd17b11	2149821	5	104,418,781	104,450,938	1	1	0	0	1	0	0	0	0
Tmem175	1919642	5	109,058,789	109,076,789	2	1	1	0	1	0	0	1	0
Dgkq	102918	5	109,075,712	109,098,691	1	1	1	0	1	0	0	0	0
Pxmp2	107487	5	110,703,301	110,715,205	1	0	0	1	0	0	0	0	0
1500011B03Rik	1913486	5	115,258,205	115,273,477	1	0	0	0	0	1	0	1	1
2610524H06Rik	2447819	5	115,271,946	115,273,477	1	0	0	0	0	1	0	1	1
Hspb8	2135756	5	116,858,500	116,872,873	1	0	0	0	0	0	0	0	1
Srrm4	1916205	5	116,889,281	116,917,869	1	0	0	1	0	0	0	0	0
2410131K14Rik	1924042	5	118,695,236	118,716,102	1	1	1	1	1	0	0	0	0
Sdsl	2182607	5	120,908,195	120,922,819	1	0	0	0	0	0	0	1	0
Aldh2	99600	5	122,016,036	122,043,833	1	0	0	0	0	0	0	1	0
Ache	87876	5	137,728,747	137,735,694	1	0	0	0	0	1	0	0	0
Katnal1	2387638	5	149,685,908	149,806,799	1	0	0	0	1	0	0	0	0
Tac1	98474	6	7,505,071	7,512,973	1	0	0	0	0	0	0	1	0

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Cttnbp2	1353467	6	18,316,478	18,465,338	1	1	0	0	1	0	0	0	0
Tmem176a	1913308	6	48,791,508	48,795,363	1	0	0	0	0	1	0	0	0
Il12rb2	1270861	6	67,241,312	67,326,182	1	0	0	1	0	0	0	0	0
Podxl2	2442488	6	88,792,552	88,825,038	1	1	0	1	1	0	0	0	0
Slc41a3	1918949	6	90,554,719	90,596,406	1	0	0	0	1	0	0	0	0
Magi1	1203522	6	93,628,030	94,233,316	2	0	0	0	0	0	0	1	1
Cntn6	1858223	6	104,442,784	104,813,400	1	0	0	0	0	0	0	1	0
Gm7292	3645786	6	117,666,491	117,667,485	1	0	0	0	0	1	1	1	1
BC048546	3039594	6	128,490,300	128,531,624	1	0	0	0	0	1	0	0	1
Aebp2	1338038	6	140,570,970	140,626,993	2	0	0	0	0	2	2	2	2
Slco1c1	1889679	6	141,472,907	141,518,241	1	0	0	0	0	1	1	1	1
Etnk1	1922570	6	143,115,750	143,155,140	2	0	0	0	0	2	0	0	1
Sox5	98367	6	143,776,945	144,730,497	1	1	0	0	1	0	0	0	0
Kras	96680	6	145,165,219	145,198,759	1	0	0	0	0	1	1	1	1
Ppfibp1	1914783	6	146,837,009	146,980,547	1	1	0	0	0	0	0	0	0
Gm5887	3645619	6	147,023,582	147,035,554	1	0	0	0	0	0	0	1	0
Ttyh1	1889007	7	4,071,010	4,088,308	2	0	0	0	0	1	0	1	1
D030047H15Rik	3698136	7	4,077,942	4,088,528	2	0	0	0	0	1	0	1	1
Tnnt1	1333868	7	4,456,265	4,467,577	1	0	0	1	0	0	0	0	0
Usp29	1888998	7	6,683,452	6,919,931	1	1	0	1	1	0	0	0	0
Kptn	1890380	7	16,705,244	16,712,865	1	0	0	0	0	0	0	1	0
Ccdc9	1921443	7	16,859,394	16,872,144	1	0	0	0	0	0	0	1	0
Erccl	95412	7	19,930,127	19,941,873	2	1	1	1	2	0	0	0	0
1700008P20Rik	1916551	7	25,118,222	25,118,917	1	0	0	0	0	1	0	1	1
Lypd3	1919684	7	25,421,589	25,426,137	1	1	0	1	0	0	0	0	0
Pop4	1913411	7	39,047,839	39,056,367	1	0	0	0	0	1	1	1	1
Aspdh	1915602	7	51,720,761	51,723,127	1	1	0	1	1	0	0	0	0
Fuz	1917550	7	52,151,463	52,155,993	1	0	0	0	0	1	1	1	1
Tead2	104904	7	52,471,123	52,489,005	1	1	0	0	0	0	0	0	0
Fam189a1	1917888	7	71,900,999	72,301,456	1	1	0	0	0	0	0	0	0
Trpc2	109527	7	109,214,025	109,245,378	1	1	0	0	1	0	0	0	0
Hbb-b1	96021	7	110,961,038	110,962,510	2	0	0	1	0	1	0	1	1
Hbb-b2	96022	7	110,975,048	110,976,610	2	2	2	2	2	0	0	0	0
Prkcdp	1923422	7	112,629,130	112,630,711	1	0	0	0	0	0	0	1	0
Apbb1	107765	7	112,707,000	112,729,735	1	0	0	0	0	1	0	1	1
Tpp1	1336194	7	112,893,532	112,900,743	1	0	0	0	0	0	0	1	0
Ric3	2443887	7	116,177,826	116,226,845	1	0	0	0	0	1	1	1	1
Rnf141	1914400	7	117,957,045	117,987,958	1	0	0	1	0	0	0	0	0
Dkk3	1354952	7	119,259,537	119,301,933	1	1	0	0	0	0	0	0	0
Cdr2	1100885	7	128,100,550	128,125,826	1	0	0	0	0	1	0	0	0
Prkcb	97596	7	129,432,265	129,777,916	1	0	0	0	0	1	1	0	1
Nupr1	1891834	7	133,766,763	133,770,524	1	0	0	0	0	0	1	0	1
Ccdc101	1922815	7	133,792,823	133,816,439	1	1	0	1	1	0	0	0	0
Gdpd3	1915866	7	133,909,928	133,919,157	1	1	1	1	1	0	0	0	0
Ypel3	1913340	7	133,920,469	133,924,028	1	1	0	1	1	0	0	0	0
Fam57b	1916202	7	133,963,344	133,973,728	1	0	0	1	0	0	0	0	0
Dctpp1	1913672	7	134,400,473	134,404,223	1	1	0	0	0	0	0	0	0
Cox6a2	104649	7	135,349,128	135,349,830	1	1	1	1	1	0	0	0	0
Tgfb1i1	102784	7	135,390,385	135,397,226	1	0	0	0	0	0	0	0	1
Fgfr2	95523	7	137,305,965	140,315,033	1	0	0	0	0	1	0	0	0
1190003J15Rik	1916142	7	148,020,917	148,023,865	1	0	0	0	0	0	0	0	1
Cars	1351477	7	150,743,135	150,785,995	1	1	1	1	1	0	0	0	0
Arhgef10	2444453	8	14,911,663	15,001,085	1	1	1	1	1	0	0	0	0
Brf2	1913903	8	28,234,304	28,239,104	1	0	0	0	0	1	1	1	1
Got1l1	1923865	8	28,307,932	28,313,019	1	0	0	1	0	0	0	0	0
Sc4mol	1913484	8	67,196,936	67,212,589	1	0	0	0	0	1	1	1	1
Gmip	1926066	8	72,332,578	72,345,769	1	0	0	0	0	0	0	1	0
Ndufa13	1914434	8	72,418,087	72,425,547	1	1	1	1	1	0	0	0	0
Jund	96648	8	73,222,848	73,224,514	1	0	0	0	0	1	0	0	0
Haus8	1923728	8	73,772,460	73,796,833	1	0	0	0	0	1	0	0	0

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
5430437P03Rik	1915501	8	73,920,767	73,928,444	1	0	0	0	0	1	0	0	0
Rnaseh2a	1916974	8	87,480,509	87,493,666	1	0	0	0	0	1	0	0	0
BC056474	3041257	8	87,604,639	87,606,238	1	0	0	0	0	1	0	1	0
Man2b1	107286	8	87,607,223	87,621,493	1	0	0	0	0	1	0	0	0
Agrp	892013	8	108,090,600	108,092,198	1	0	0	0	0	0	0	1	0
Galnt2	894694	8	122,434,741	126,869,624	1	0	0	0	0	1	0	1	1
Pard3	2135608	8	129,587,793	130,136,186	1	0	0	0	0	1	0	0	0
Robo4	1921394	9	37,209,482	37,221,608	1	0	0	0	0	0	0	1	0
Vsig2	1928009	9	37,346,840	37,351,790	1	0	0	0	0	0	0	0	1
Rnf26	2388131	9	43,874,410	43,921,600	1	0	0	0	0	1	0	1	0
Mfrp	2385957	9	43,909,821	43,917,270	1	0	0	0	0	1	0	1	0
C1qtnf5	2385958	9	43,915,328	43,917,270	1	0	0	0	0	1	0	1	0
Pdzd3	2429554	9	44,055,401	44,059,547	1	0	0	0	0	1	0	0	0
Hyou1	108030	9	44,187,573	44,200,452	1	0	0	0	0	0	0	1	0
Ddx6	104976	9	44,412,981	44,445,189	2	0	0	0	0	1	0	1	2
Megf11	1920951	9	64,233,433	64,557,012	1	0	0	0	0	0	0	1	0
Hmgn3	2138069	9	83,003,555	83,040,292	1	1	1	1	1	0	0	0	0
Bcl2a1d	1278325	9	88,618,126	88,626,688	1	1	0	1	1	0	0	0	0
Tmie	2159400	9	110,768,215	110,782,617	1	0	0	0	0	1	0	1	0
Glb1	88151	9	114,310,237	114,383,495	1	0	0	0	0	0	0	1	0
Sec22c	2447871	9	121,592,140	121,614,608	1	0	0	1	0	0	0	0	0
Ccbp2	1891697	9	121,807,582	121,820,182	1	0	0	0	0	0	0	0	1
Syne1	1927152	10	4,795,849	5,326,338	1	0	0	0	0	1	0	1	0
Zfp365	2143676	10	67,348,851	67,375,410	1	1	1	0	1	0	0	0	0
Ube2d1	2384911	10	70,717,728	70,748,010	1	0	0	0	0	0	0	1	0
Col6a1	88459	10	76,171,537	76,188,913	1	0	0	0	1	0	0	0	0
Pdxk	1351869	10	77,899,489	77,927,720	1	0	0	0	0	1	0	0	0
Slc25a3	1353498	10	90,579,538	90,586,712	1	1	0	1	1	0	0	0	0
Tmtc2	1914057	10	104,624,719	105,011,507	1	0	0	0	0	0	0	1	0
Srgap1	2152936	10	121,218,047	121,484,371	1	0	0	0	0	1	0	0	0
Kif5a	109564	10	126,662,755	126,700,136	1	0	0	0	0	1	0	0	0
Sf3a1	1914715	11	4,060,353	4,082,544	1	1	0	0	1	0	0	0	0
Gatsl3	1919212	11	4,118,228	4,122,412	1	0	0	0	0	0	0	1	0
Ccdc88a	1925177	11	29,273,658	29,410,808	1	0	0	0	0	1	1	1	1
Mtif2	1924034	11	29,426,408	29,445,279	2	0	0	0	0	2	2	2	2
Rtn4	1915835	11	29,592,947	29,644,331	1	1	1	1	1	0	0	0	0
Eml6	2442895	11	29,643,051	29,926,033	1	1	1	1	1	0	0	0	0
Npri3	109258	11	32,125,628	32,167,707	1	1	0	0	1	0	0	0	0
Mpg	97073	11	32,126,505	32,132,700	1	1	0	0	1	0	0	0	0
Tbc1d9b	1924045	11	49,944,898	49,986,287	1	0	1	1	1	0	0	0	0
Ltc4s	107498	11	50,049,971	50,052,118	1	1	0	0	0	0	0	0	0
Aff4	2136171	11	53,164,335	53,235,332	1	1	1	0	1	0	0	0	0
Hist3h2ba	1925553	11	58,762,422	58,763,035	1	0	0	0	0	0	0	1	1
Trim11	2137355	11	58,791,595	58,804,960	1	1	0	1	1	0	0	0	0
Lrrc48	1921915	11	60,166,831	60,207,843	1	0	0	1	1	0	0	0	0
Atpaf2	2180561	11	60,214,128	60,231,959	1	0	0	0	0	1	0	0	0
Aldh3a1	1353451	11	61,021,039	61,031,923	1	0	0	1	0	0	0	0	1
Aldh3a2	1353452	11	61,036,919	61,080,966	1	1	1	1	1	0	0	0	0
Epn2	1333766	11	61,330,751	61,393,187	1	1	0	0	1	0	0	0	0
Prpsap2	2384838	11	61,543,156	61,575,564	1	0	0	1	0	0	0	0	0
Cytsb	2442356	11	61,770,281	62,036,507	1	0	0	0	0	0	0	0	1
Zswim7	1916997	11	62,080,726	62,094,877	1	0	0	0	0	0	0	1	0
Ttc19	1920045	11	62,094,975	62,141,953	1	0	0	1	0	0	0	0	0
Pigl	2681271	11	62,271,787	62,329,795	1	0	0	0	0	0	1	1	1
BC046404	2682293	11	62,418,386	62,462,025	1	1	0	0	0	0	0	0	0
Mmgt2	2448491	11	62,462,241	62,479,856	1	1	0	0	1	0	0	0	0
Zfp286	2384758	11	62,566,879	62,602,964	1	1	1	0	1	0	0	0	0
Pmp22	97631	11	62,942,484	62,973,049	1	1	1	1	1	0	0	0	0
Hs3st3a1	1333861	11	64,248,834	64,336,343	1	0	0	0	0	0	0	0	1
Elac2	1890496	11	64,792,540	64,815,571	1	0	0	0	0	1	0	1	1

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Ndel1	1932915	11	68,634,936	68,685,360	1	1	0	0	0	0	0	0	0
Tax1bp3	1923531	11	72,990,585	72,996,664	2	0	0	2	2	0	0	0	0
Samd14	2384945	11	94,871,193	94,887,401	1	0	0	0	0	0	0	1	0
Pdk2	1343087	11	94,887,572	94,902,668	1	0	0	0	0	1	1	1	1
Myst2	2182799	11	95,135,573	95,171,560	1	0	0	0	0	1	1	1	1
Fam117a	2144564	11	95,198,332	95,243,186	1	0	0	0	0	1	0	0	0
Kcnj16	1314842	11	110,829,347	110,889,282	1	1	1	0	1	0	0	0	0
Npb	2387153	11	120,469,791	120,470,407	1	0	0	0	0	0	0	1	0
Sirt7	2385849	11	120,479,686	120,486,554	1	1	1	1	1	0	0	0	0
Myadml2	1915765	11	120,507,345	120,509,472	1	1	0	1	1	0	0	0	0
Rfng	894275	11	120,642,060	120,645,521	2	1	1	1	1	0	0	1	1
Dus1l	1915980	11	120,650,515	120,657,717	2	2	1	1	1	0	0	0	0
Ccdc57	1918526	11	120,687,843	120,794,186	1	1	0	0	0	0	0	0	0
1110031I02Rik	1913429	11	121,038,905	121,066,025	1	0	0	0	0	1	0	0	1
Hexdc	3605542	11	121,065,749	121,083,961	1	0	0	0	0	1	0	1	1
Tbcd	1919686	11	121,313,263	121,478,478	1	0	0	0	0	0	0	1	0
B3gnt1	2441705	11	121,477,511	121,534,467	2	0	0	0	0	1	0	2	1
Twistnb	106292	12	34,114,509	34,122,945	2	2	0	2	1	0	0	0	0
Rhoj	1931551	12	76,409,309	76,502,443	1	0	0	0	0	0	0	1	0
Vti1b	1855688	12	80,257,009	80,273,654	2	1	0	1	2	0	0	0	0
Clmn	2136957	12	106,001,324	106,103,286	2	0	0	1	0	1	1	1	1
Eml1	1915769	12	109,609,167	109,777,827	1	1	1	1	1	0	0	0	0
Slc25a47	2144766	12	110,089,339	110,095,025	1	0	0	0	0	0	0	1	1
Dlk1	94900	12	110,691,059	110,698,901	2	0	0	0	0	2	0	0	0
Wdr60	2445085	12	117,445,523	117,501,498	1	0	0	0	0	0	0	1	0
Rapgef5	2444365	12	118,754,952	118,995,118	1	1	0	0	1	0	0	0	0
Gtbp4	1916487	13	8,971,710	8,995,258	1	1	0	1	1	0	0	0	0
Zmynd11	1913755	13	9,684,082	9,764,567	1	1	0	0	0	0	0	0	0
Agtr1a	87964	13	30,428,310	30,474,736	1	0	0	0	0	0	0	1	0
Riok1	1918590	13	38,129,164	38,153,298	1	1	0	0	0	0	0	0	0
Tmem14c	1913404	13	41,111,673	41,117,950	2	0	0	0	0	1	0	2	0
Edn1	95283	13	42,396,845	42,403,358	1	1	0	1	0	0	0	0	0
Mef2c	99458	13	83,643,194	83,802,927	1	0	1	0	1	0	0	0	0
F2r	101802	13	96,371,744	96,388,388	1	0	0	0	0	1	1	1	1
Ankra2	1915808	13	99,033,113	99,044,705	1	0	0	0	0	0	0	1	1
Mrps27	1919064	13	100,114,745	100,185,517	1	0	0	0	0	1	1	1	1
Cartpt	1351330	13	100,668,439	100,670,638	1	0	0	0	0	0	1	0	0
Pde4d	99555	13	109,240,142	110,743,669	3	2	1	1	2	0	0	0	0
Rpp14	1914303	14	8,912,881	8,924,350	1	0	0	0	0	1	0	1	1
Fezf2	1859823	14	13,174,616	13,178,342	1	1	0	0	0	0	0	0	0
Rpl15	1913730	14	19,100,337	19,103,905	1	1	0	1	1	0	0	0	0
Mipep	1917728	14	61,403,425	61,522,447	1	0	0	0	0	1	1	1	1
Ctsb	88561	14	63,741,353	63,761,971	1	0	0	0	0	1	1	1	1
Mtmr9	2442842	14	64,142,447	64,162,790	1	0	1	1	1	0	0	0	0
Pdlim2	2384850	14	70,564,025	70,577,488	1	0	0	1	0	0	0	0	0
Dgkh	2444188	14	78,969,416	79,124,896	1	1	0	1	1	0	0	0	0
1300010F03Rik	1919008	14	79,248,991	79,602,117	1	1	0	1	1	0	0	0	0
Naa16	1914147	14	79,734,317	79,790,475	1	1	1	1	1	0	0	0	0
Dct	102563	14	118,412,029	118,451,407	1	0	0	0	0	0	0	0	1
Nipbl	1913976	15	8,241,225	8,394,463	1	0	0	0	0	1	1	1	1
Rai14	1922896	15	10,498,734	10,643,295	1	0	0	0	1	0	0	0	0
Spag1	1349387	15	36,109,123	36,165,365	1	0	0	0	0	1	0	1	1
Ubr5	1918040	15	37,897,083	37,978,898	1	0	0	0	0	1	0	0	1
Tg	98733	15	66,502,332	66,682,275	1	0	0	0	1	0	0	0	0
Sla	104295	15	66,612,434	66,644,284	1	0	0	0	1	0	0	0	0
Rbm9	1933973	15	76,912,769	77,137,035	1	1	0	0	0	0	0	0	0
Myh9	107717	15	77,591,017	77,672,605	1	0	0	0	0	1	0	1	1
Foxred2	106315	15	77,770,952	77,787,152	1	0	0	1	1	0	0	0	0
Card10	2146012	15	78,605,570	78,633,472	1	0	0	0	0	1	0	1	0
Slc25a17	1342248	15	81,149,351	81,191,195	1	0	0	0	0	0	0	1	1

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Alg1	2384774	16	5,233,714	5,245,005	1	0	1	1	1	0	0	0	0
Fam86	1917761	16	5,244,245	5,256,076	1	0	1	1	1	0	0	0	0
Scarf2	1858430	16	17,797,408	17,808,385	1	1	0	0	0	0	0	0	0
Dgkg	105060	16	22,468,534	22,657,294	1	1	0	0	0	0	0	0	0
4930455C21Rik	1922139	16	38,498,429	38,522,747	1	0	0	0	0	0	0	1	0
Cxadr	1201679	16	78,301,741	78,360,030	1	1	1	1	1	0	0	0	0
Wtap	1926395	17	13,159,662	13,185,412	1	1	1	1	1	0	0	0	0
Ncrna00085	1922452	17	17,967,683	17,979,973	1	0	1	0	1	0	0	0	0
Fpr2	1278319	17	18,024,788	18,030,916	1	1	0	1	1	0	0	0	0
Fpr3	1194495	17	18,024,816	18,108,641	1	1	0	1	1	0	0	0	0
6330416L07Rik	2442394	17	22,474,961	22,498,355	1	0	0	0	0	1	1	1	1
Zfp40	99185	17	23,310,836	23,330,219	1	0	0	0	0	0	0	1	0
Zfp213	3053094	17	23,693,737	23,701,096	1	0	0	0	0	0	0	1	0
Slc9a3r2	1890662	17	24,776,233	24,787,223	1	0	0	0	0	1	0	0	0
Rps2	105110	17	24,855,061	24,858,874	1	1	1	1	1	0	0	0	0
Telo2	1918968	17	25,236,515	25,252,912	1	0	0	0	0	1	1	1	1
Unkl	1921404	17	25,325,342	25,371,388	1	0	0	0	0	1	0	0	0
Gnptg	2147006	17	25,371,262	25,377,061	1	0	0	0	0	1	0	0	0
Ube2i	107365	17	25,397,456	25,410,336	2	1	0	1	1	1	0	1	1
4930539E08Rik	1925441	17	29,033,342	29,052,269	1	0	0	0	0	0	0	1	0
Fgd2	1347084	17	29,497,859	29,516,605	1	0	0	0	0	1	0	1	1
Glo1	95742	17	30,729,806	30,749,539	1	0	0	0	0	1	0	1	1
Zfp871	1921793	17	32,910,210	32,924,492	1	0	0	0	0	1	0	1	1
Cyp4f14	1927669	17	33,042,016	33,054,023	1	0	0	0	0	1	0	1	0
Angptl4	1888999	17	33,911,845	33,918,451	1	0	0	0	0	1	0	0	0
Vars2	1916165	17	35,793,335	35,804,537	1	0	0	0	0	1	1	1	1
Ddr1	99216	17	35,818,512	35,841,566	1	1	0	1	1	0	0	0	0
H2-T23	95957	17	36,166,921	36,169,646	3	3	3	3	3	0	0	0	0
H2-T22	95956	17	36,175,352	36,179,692	2	2	2	2	2	0	0	0	0
H2-T9	95965	17	36,175,352	36,179,692	2	2	2	2	2	0	0	0	0
Enpp5	1933830	17	44,215,762	44,223,516	1	0	0	0	0	1	1	1	1
Slc35b2	1921086	17	45,701,101	45,704,618	2	1	2	1	1	0	0	0	0
Hsp90ab1	96247	17	45,704,724	45,710,220	1	0	0	0	0	1	0	1	1
Rsph9	1922814	17	46,258,984	46,281,165	1	0	0	1	1	0	0	0	0
Mad2l1bp	1913841	17	46,284,338	46,290,453	1	0	0	0	1	0	0	0	0
Gtpbp2	1860138	17	46,298,020	46,306,316	1	0	0	0	1	0	0	0	0
Abcc10	2386976	17	46,440,182	46,464,972	1	0	0	0	0	0	0	0	1
Ttbk1	2147036	17	46,579,373	46,624,947	1	1	1	1	1	0	0	0	0
Cnpy3	1919279	17	46,872,654	46,889,163	1	0	0	0	0	1	0	1	0
Tomm6	1913369	17	47,823,595	47,825,335	1	0	0	0	0	1	0	0	0
Prickle4	2685785	17	47,823,688	47,831,685	1	0	0	0	0	1	0	0	0
Frs3	2135965	17	47,825,979	47,841,235	1	0	0	0	0	1	0	1	1
Foxp4	1921373	17	48,004,082	48,061,594	1	0	0	0	0	1	0	1	0
Satb1	105084	17	51,875,512	51,972,615	1	1	1	1	1	0	0	0	0
C030034I22Rik	1924783	17	69,766,801	69,768,271	1	1	1	1	1	0	0	0	0
Alk	103305	17	72,218,328	72,953,049	1	0	0	0	0	1	0	1	0
Ehd3	1928900	17	74,154,181	74,181,433	1	0	0	0	1	0	0	0	0
Slc30a6	2386741	17	74,794,972	74,823,569	1	1	1	1	1	0	0	0	0
Ttc27	1921446	17	75,117,090	75,262,909	1	0	0	0	0	1	1	1	1
Hnrpll	1919942	17	80,429,683	80,461,608	1	0	0	0	0	0	0	1	0
Morn2	2674071	17	80,689,572	80,696,813	1	1	0	1	0	0	0	0	0
Map4k3	2154405	17	80,979,852	81,127,433	1	1	1	1	1	0	0	0	0
2610044O15Rik	1919389	17	95,159,284	95,164,201	1	0	0	0	0	1	1	1	1
A730017C20Rik	2442934	18	59,221,902	59,236,616	2	0	0	0	0	2	0	1	0
Hmgxb3	2441817	18	61,290,933	61,336,704	2	1	0	0	0	1	0	1	1
Il17b	1928397	18	61,847,589	61,852,191	1	0	0	0	0	1	0	1	0
Elac1	1890495	18	73,894,692	73,914,133	1	1	1	1	1	0	0	0	0
Me2	2147351	18	73,929,694	73,975,046	1	0	0	0	0	1	0	1	0
Stx3	103077	19	11,849,609	11,893,893	1	1	1	1	1	0	0	0	0
Gnaq	95776	19	16,207,321	16,461,943	1	1	1	1	1	0	0	0	0

Gene						No. of probes showing more expression				No. of probes showing less expression			
Symbol	MGI ID	Chr	Start	End	No. of probes	CeA	BLA	PVN	Cg	CeA	BLA	PVN	Cg
Cbwd1	2385089	19	24,994,923	25,036,021	1	1	0	1	1	0	0	0	0
Il33	1924375	19	29,999,604	30,035,194	1	0	0	0	0	0	0	1	0
Opalin	2657025	19	41,137,910	41,151,603	1	0	0	1	0	0	0	0	0
Marveld1	2147570	19	42,221,879	42,224,737	1	0	0	0	0	0	0	1	1
Cwf19l1	1919752	19	44,183,134	44,210,366	1	0	0	0	1	0	0	0	0
Ccdc147	2685815	19	48,012,202	48,109,868	1	0	0	0	0	1	0	1	0
Sorcs1	1929666	19	50,225,463	50,752,975	1	0	0	0	0	1	0	0	1
Add3	1351615	19	53,277,904	53,321,577	1	1	0	1	1	0	0	0	0
Atrnl1	2147749	19	57,685,535	58,207,833	1	1	0	0	0	0	0	0	0
Nanos1	2669254	19	60,831,890	60,835,816	1	0	0	0	0	0	0	1	0
Dgkk	3580254	X	6,450,610	6,525,489	1	0	0	0	0	1	0	0	0
Chic1	1344694	X	100,551,815	100,591,431	1	0	0	1	0	0	0	0	0
Syt14	1351606	X	130,470,924	130,516,351	1	0	0	0	0	1	0	1	0
Mcart6	1914312	X	133,515,655	133,572,841	1	0	0	0	0	0	0	1	0