

ADDITIONAL FILE 1. Differentially expressed genes in HG2DF2 non-recombinant F2 mice

Gene Name	Agilent Probe ID	Accession	FDR	Chr.	Mbp UCSC Feb. 2006	Fold change	High expressing strain
<i>Drbp1</i>	A_51_P451374	NM_153405	0.222	2	76.171	6.09	CAST
<i>AK078845</i>	A_52_P1052731	AK078845	0.102	2	78.685	7.69	HG
<i>D430039N05Rik</i>	A_51_P393654	NM_175514	0.291	2	83.614	2.30	HG
<i>Olf1153</i>	A_52_P361391	NM_146640	0.113	2	87.697	2.73	HG
<i>AA718294</i>	A_51_P308111	AA718294	0.220	2	90.720	1.93	HG
<i>Slc39a13</i>	A_52_P6505	AK035296	0.220	2	90.863	1.76	CAST
<i>E130006N16Rik</i>	A_51_P139765	AK053282	0.236	2	91.082	2.70	HG
<i>2810427C15Rik</i>	A_52_P761812	AK013171	0.121	2	92.107	6.46	HG
<i>D030065N23Rik</i>	A_52_P1116376	AK083682	0.266	2	92.132	3.42	HG
<i>2810002D19Rik</i>	A_52_P158305	BC022909	0.256	2	94.207	2.26	HG
<i>Cd44</i>	A_52_P229536	AK045226	0.150	2	102.515	1.81	HG
<i>AK051363</i>	A_52_P671465	AK051363	0.278	2	103.589	1.66	HG
<i>AK031920</i>	A_52_P803354	AK031920	0.182	2	104.439	3.46	HG
<i>Al451465</i>	A_51_P204286	AK033552	0.266	2	112.272	1.66	HG
<i>Fmn1</i>	A_52_P321725	X62379	0.097	2	113.242	6.46	CAST
<i>Scg5</i>	A_51_P221223	NM_009162	0.102	2	113.578	2.96	CAST
<i>Ivd</i>	A_51_P425680	NM_019826	0.182	2	118.553	1.44	HG
<i>Mga</i>	A_51_P193270	NM_013720	0.266	2	119.564	2.07	HG
<i>2310026J01Rik</i>	A_52_P203948	BC066085	0.216	2	119.858	4.97	CAST
<i>Vps39</i>	A_51_P460828	BC007479	0.097	2	120.008	2.96	CAST
<i>5830445O15Rik</i>	A_52_P663742	AK076333	0.220	2	120.098	1.41	CAST
<i>4831403C07Rik</i>	A_51_P376501	AK029170	0.219	2	120.396	1.35	CAST
<i>B430315C20Rik</i>	A_52_P529790	NM_178795	0.102	2	121.002	6.03	HG
<i>Sema6d</i>	A_51_P415755	AK052232	0.121	2	124.302	2.59	CAST
<i>Znf2</i>	A_51_P105869	NM_028141	0.278	2	127.267	2.30	HG
<i>Mal</i>	A_52_P562661	NM_010762	0.172	2	127.325	1.97	HG
<i>Stk35</i>	A_52_P451834	AK085193	0.097	2	129.492	2.62	HG
<i>Gfra4</i>	A_51_P241426	NM_020014	0.287	2	130.732	4.11	HG
<i>2310032D16Rik</i>	A_52_P470017	NM_028802	0.102	2	132.221	5.78	HG
<i>3300001M20Rik</i>	A_52_P525837	NM_175113	0.220	2	132.496	2.53	HG
<i>D2Bwg1356e</i>	A_51_P319379	AK129301	0.287	2	134.286	1.19	HG
<i>AK086068</i>	A_52_P739620	AK086068	0.219	2	134.935	3.42	HG

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<i>Pak7</i>	A_52_P143252	AK077967	0.121	2	135.773	3.03	HG
<i>Snap25</i>	A_52_P286421	NM_011428	0.102	2	136.405	8.71	HG
<i>AK045769</i>	A_52_P1027959	AK045769	0.185	2	140.524	5.03	HG
<i>AK028486</i>	A_52_P763142	AK028486	0.097	2	140.787	27.23	HG
<i>1700006F03Rik</i>	A_51_P131840	AF440737	0.097	2	148.481	19.12	CAST
<i>Cst3</i>	A_51_P332201	NM_009976	0.278	2	148.563	1.72	CAST
<i>BC029716</i>	A_52_P471592	BC034102	0.097	2	149.695	3.38	CAST
<i>AL033326</i>	A_51_P233578	NM_019705	0.102	2	152.008	11.88	HG
<i>H13</i>	A_52_P655663	NM_010376	0.278	2	152.361	1.84	CAST
<i>Pofut1</i>	A_52_P665833	NM_080463	0.172	2	152.933	2.24	HG
<i>9830001H06Rik</i>	A_52_P257919	AK031493	0.222	2	156.707	2.25	HG
<i>2610304G08Rik</i>	A_51_P229633	NM_027434	0.230	2	157.720	3.06	HG
<i>Actr5</i>	A_52_P594049	NM_175419	0.182	2	158.316	1.86	HG
<i>D930001I22Rik</i>	A_52_P172441	NM_173397	0.256	2	163.158	1.33	CAST
<i>AK045608</i>	A_52_P1067686	AK045608	0.216	2	164.183	2.15	HG
<i>AK038166</i>	A_51_P389147	AK038166	0.232	2	165.842	6.42	HG
<i>Sdccag33l</i>	A_52_P126663	AK046877	0.172	2	169.325	2.19	CAST
<i>2900073F20Rik</i>	A_52_P158431	AK013774	0.220	2	169.331	3.00	CAST
<i>Rab22a</i>	A_52_P582767	NM_024436	0.102	2	173.303	2.55	HG
<i>2210418O10Rik</i>	A_51_P206849	BC059210	0.219	2	176.503	1.88	CAST
<i>LOC381422</i>	A_52_P347796	XM_358573	0.186	2	176.899	2.32	CAST
<i>BC025828</i>	A_52_P310652	BC025828	0.182	2	177.478	2.89	CAST
<i>C330013J21Rik</i>	A_51_P211423	AK021199	0.102	2	177.833	2.18	CAST
Genes outside HG2D congenic region							
<i>BB755555</i>	A_52_P708886	BB755555	0.182	1	7.169	2.18	HG
<i>Prg4</i>	A_51_P280455	AB034730	0.219	1	152.214	1.38	HG
<i>Oas2</i>	A_51_P277994	NM_145227	0.182	5	120.991	1.56	CAST
<i>9330160C06Rik</i>	A_51_P481528	AK034156	0.182	6	149.056	1.17	HG
<i>6230410P16Rik</i>	A_51_P194004	NM_174846	0.172	9	106.011	2.16	HG
<i>Igtp</i>	A_51_P112355	NM_018738	0.097	11	58.0158	1.29	CAST
<i>Egr1</i>	A_51_P367866	NM_007913	0.133	18	34.987	1.31	CAST