

**Table S6. Sequencing analysis data for the enriched genes in the comparison Embryo vs blank control for gene sequences uniquely binding the *Mus musculus* reference genome.**

id	chr	start	end	gene	logFC	logCPM	FWER
chr11_3125904_3131004	chr11	3125904	3131004	<i>Pisd-ps1</i>	12,4434361	7,546045555	2,22088E-15
chr11_3131850_3193463	chr11	3131850	3193463	<i>Sfil</i>	5,126255729	10,26359019	1,32183E-26
chr11_3142048_3143363	chr11	3142048	3143363	<i>Gm11399</i>	10,7839565	5,885694338	0,000583145
chr11_97362551_97398542	chr11	97362551	97398542	<i>Socs7</i>	-3,747903091	7,700942682	0,002937969
chr12_84875769_84878132	chr12	84875769	84878132	<i>D030025P21Rik</i>	-12,69387428	5,759235308	0,000340618
chr12_85110833_85134091	chr12	85110833	85134091	<i>Dlst</i>	-4,676679299	7,350444007	0,000889823
chr13_119487941_119610458	chr13	119487941	119610458	<i>Gm7120</i>	7,617197767	8,016567803	5,52161E-13
chr13_119606650_119610458	chr13	119606650	119610458	<i>Gm21967</i>	11,97491097	6,493150042	9,57875E-07
chr14_19415857_19418930	chr14	19415857	19418930	<i>Gm21738</i>	8,273137037	11,27633001	1,23374E-91
chr14_55761428_55763229	chr14	55761428	55763229	<i>Ltb4r2</i>	-10,04299512	4,214700737	0,032437241
chr1_51987148_52107188	chr1	51987148	52107188	<i>Stat4</i>	-3,777095341	8,015519032	0,004708806
chr16_3858321_3884561	chr16	3858321	3884561	<i>Zfp597</i>	-5,036663232	8,274119125	3,1775E-10
chr16_3862384_3884505	chr16	3862384	3884505	<i>Gm26675</i>	-5,164476194	8,233242076	1,91139E-10
chr16_3872375_3904770	chr16	3872375	3904770	<i>Naa60</i>	-4,71828314	8,18896789	7,66701E-08
chr1_66924295_66945404	chr1	66924295	66945404	<i>Myl1</i>	-6,622947525	6,768925192	3,01875E-06
chr17_3076578_3084183	chr17	3076578	3084183	<i>Pisd-ps2</i>	8,675690394	7,019574733	2,13369E-08
chr18_12599926_12737050	chr18	12599926	12737050	<i>Ttc39c</i>	-3,707968306	8,834381996	2,88583E-06
chr18_31804057_31908987	chr18	31804057	31908987	<i>Wdr33</i>	-3,209811503	8,193309638	0,00904414
chr1_85246851_85255465	chr1	85246851	85255465	<i>Gm16028</i>	9,35151981	5,900021751	0,024090475
chr19_4510472_4621752	chr19	4510472	4621752	<i>Pcx</i>	-3,574335232	8,385112978	0,000286942
chr19_47512982_47516578	chr19	47512982	47516578	<i>Gm19557</i>	10,89816799	7,586933622	0,004041433
chr19_6829085_6840601	chr19	6829085	6840601	<i>Rps6ka4</i>	-7,543097748	6,637187928	0,000601881
chr2_98662237_98664083	chr2	98662237	98664083	<i>Gm10801</i>	6,89666714	10,96506387	7,55159E-62
chr2_98666547_98667301	chr2	98666547	98667301	<i>Gm10800</i>	6,944244257	13,24452273	2,1161E-218
chr3_18054325_18057509	chr3	18054325	18057509	<i>Bhlhe22</i>	-10,56310071	5,459748715	0,031763909
chr3_87357881_87371074	chr3	87357881	87371074	<i>Cd5l</i>	8,798658154	7,454408039	8,68128E-05
chr4_108165437_108179308	chr4	108165437	108179308	<i>Echdc2</i>	7,832486406	6,874000412	0,028966871
chr4_136880129_136886187	chr4	136880129	136886187	<i>Clqb</i>	-7,110530802	6,774645443	0,001640445
chr4_146449023_146470292	chr4	146449023	146470292	<i>Gm13251</i>	9,925854511	5,521743569	0,032403253
chr4_147136278_147457019	chr4	147136278	147457019	<i>Gm26624</i>	6,228645755	8,205763331	2,52459E-11
chr5_113075839_113081584	chr5	113075839	113081584	<i>Crybb3</i>	-6,022253083	6,932980048	0,001271325
chr5_114917318_114923277	chr5	114917318	114923277	<i>Gm13822</i>	6,073272609	6,893369327	0,000306033
chr5_120431770_120441222	chr5	120431770	120441222	<i>Lhx5</i>	-6,37889882	5,587408615	0,048987405
chr5_15516489_15656679	chr5	15516489	15656679	<i>Gm21847</i>	3,763343537	7,958187692	0,003849756
chr5_73632749_73647713	chr5	73632749	73647713	<i>Sgcb</i>	-5,903387381	6,403428526	0,00311244
chr6_131219223_131247362	chr6	131219223	131247362	<i>Klra2</i>	-5,648068117	6,734581227	0,000978627
chr7_127191660_127196000	chr7	127191660	127196000	<i>Cd2bp2</i>	-8,012067768	7,079640711	6,87923E-12
chr7_28293553_28302238	chr7	28293553	28302238	<i>Dll3</i>	-5,830726192	7,357718186	5,36797E-06
chr8_20267774_20424814	chr8	20267774	20424814	<i>2610005L07Rik</i>	6,805081977	6,842118026	3,64603E-05
chr8_20292477_20420781	chr8	20292477	20420781	<i>Gm26804</i>	6,646008867	6,638582006	0,000361687
chr9_3000282_3038313	chr9	3000282	3038313	<i>Gm26870</i>	8,750785408	13,36697924	0
chr9_3000922_3002330	chr9	3000922	3002330	<i>Gm10722</i>	9,26468077	10,20332496	8,22289E-60
chr9_3003346_3006948	chr9	3003346	3006948	<i>Gm11168</i>	8,763763844	10,43059198	1,77539E-62
chr9_3015654_3017210	chr9	3015654	3017210	<i>Gm10720</i>	12,31296096	6,926367318	1,20983E-10
chr9_3017408_3021593	chr9	3017408	3021593	<i>Gm10719</i>	8,589645834	9,192448379	4,44047E-31
chr9_3023547_3025218	chr9	3023547	3025218	<i>Gm10718</i>	8,006741452	10,98695999	3,42465E-74
chr9_3025417_3033289	chr9	3025417	3033289	<i>Gm10717</i>	9,353116186	10,91265059	1,07585E-88
chr9_3034599_3035805	chr9	3034599	3035805	<i>Gm17535</i>	13,92422298	8,413677184	3,86757E-29

chr9_3036877_3038316	chr9	3036877	3038316	<i>Gm10715</i>	12,48409232	6,896222485	9,22504E-11
chrX_103083003_103083250	chrX	103083003	103083250	<i>Gm14838</i>	-11,36443398	5,700875423	0,025784341