
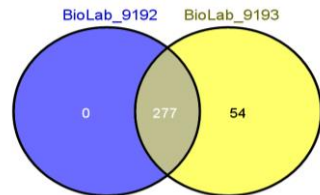


Customer name:	Janvier Labs	 <a href="mailto:khema.jagoosing@genosplice.com">khema.jagoosing@genosplice.com</a> + 33 (0) 1 57 27 47 46
Project name:	SNP Genotyping of Biolabs_9192 vs. Biolabs_9193	
Organism:	Mouse	
Analysis level:	Gene	
Date:	2014-08-13	
Algorithm version:	EASANA 2014_1	
GS contact (name/email/phone):	Khema JAGOOSING	

## Description of Columns

Column name	Column Description
<b>snpId</b>	Unique ID for SNP probeset. Each probeset contains four allele A and allele B probes.
<b>Biolabs_9192</b>	Genotype for sample Biolabs_9192 <ul style="list-style-type: none"> <li>• HomozygousA represents allele A which represents the allele found in the C57BL/6J genome sequence.</li> <li>• Heterozygous represents a heterozygous call.</li> <li>• HomozygousB represents allele B.</li> <li>• No call represents a missing call.</li> </ul>
<b>Biolabs_9193</b>	Genotype for sample Biolabs_9193 <ul style="list-style-type: none"> <li>• HomozygousA represents allele A which represents the allele found in the C57BL/6J genome sequence.</li> <li>• Heterozygous represents a heterozygous call.</li> <li>• HomozygousB represents allele B.</li> <li>• No call represents a missing call.</li> </ul>
<b>Chromosome Coordinate (mm9)</b>	Chromosome coordinate at which SNP occurs (mm9/NCBI37 version). It provides a link to UCSC genome browser
<b>Chromosome Coordinate (mm10)</b>	Chromosome coordinate at which SNP occurs (mm10/GRCm38 version). It provides a link to UCSC genome browser
<b>Allele Ref</b>	The genotype of the SNP for C57BL/6J (Reference)
<b>Allele Alt</b>	The genotype of the SNP for the alternate (non-C57BL/6J) strain
<b>rsNumber</b>	The RefSNP accession number. It provides a link to dbSNP database
<b>Link to Ensembl</b>	Provides a link to Ensembl where more information about the SNP is provided such as graphical display of the genomic context of the SNP, genes and regulation information (if available) as well as link to dbSNP database
<b>Ensembl Transcript ID</b>	Ensembl transcript ID of the region of the SNP
<b>Ensembl Gene ID</b>	Ensembl gene ID of the region of the SNP
<b>Substitution type</b>	The specific substitution type occurred through replacement (mutation) of one nucleotide with another
<b>Locus Symbol</b>	Gene symbol corresponding to the region of the SNP
<b>Function Class</b>	Description of the function of the region of the SNP
<b>Group</b>	Group to which SNP belongs (specific to one sample or common to both)

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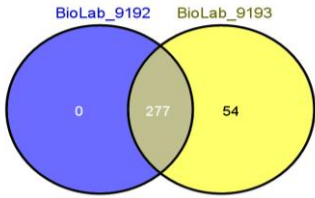
List of Heterozygous SNPs (with reference to C57BL/6J strain)

Table with columns: snpld, BioLabs\_9192, BioLabs\_9193, Chromosome coordinate (mm9), Chromosome coordinate (mm10), AlleleRef, AlleleAlt, rsNumber, Link to Ensembl, Ensembl Transcript ID, Ensembl Gene ID, Substitution Type, Locus Symbol, Function Class, Group. Contains 277 rows of SNP data.





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 GS contact (name/email/phone): Khema JACOOSING khema.jacosing@genosplice.com +33 (0) 1 57 27 47 46


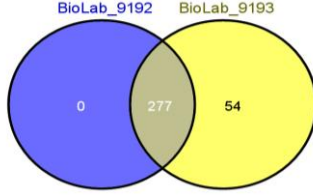


List of Heterozygous SNPs (with reference to C57BL/6J strain)

snpld	BioLabs_9192	BioLabs_9193	Chromosome coordinate (mm9)	Chromosome coordinate (mm10)	AlleleRef	AlleleAlt	rNumber	Link to Ensembl	Ensembl Transcript ID	Ensembl Gene ID	Substitution Type	Locus Symbol	Function Class	Group
JAX00379083	Heterozygote	Heterozygote	chr14:47100990	chr14:46481315	C	T	rs30837342	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00381641	Heterozygote	Heterozygote	chr14:63107358	chr14:62488521	G	A	rs47180657	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00384554	Heterozygote	Heterozygote	chr14:77015540	chr14:76615733	G	C	rs13611000	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00400871	Heterozygote	Heterozygote	chr15:51730873	chr15:51899327	T	G	rs46210274	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00401418	Heterozygote	Heterozygote	chr15:54411121	chr15:54579566	G	A	rs33465177	<a href="#">View variation in Ensembl</a>	ENSMUST00000025356	ENSMUSG00000024479	Transition	Mal2	intron variant	Common to BioLab9192 and BioLab9193
JAX00401522	Heterozygote	Heterozygote	chr15:55000966	chr15:55169141	C	T	rs49868202	<a href="#">View variation in Ensembl</a>	ENSMUST00000100660	ENSMUST0000000022419	Transition	Depto1	intron variant	Common to BioLab9192 and BioLab9193
JAX00402314	Heterozygote	Heterozygote	chr15:58785827	chr15:58954272	C	T	rs47954035	<a href="#">View variation in Ensembl</a>	ENSMUST000000080371	ENSMUSG000000022353	Transition	Miss1	intron variant	Common to BioLab9192 and BioLab9193
JAX00406651	Heterozygote	Heterozygote	chr15:78237171	chr15:78406741	G	T	rs13533002	<a href="#">View variation in Ensembl</a>	ENSMUST000000043865	ENSMUST00000000071711	Transition	Mpst, Tst	upstream gene variant; 5'	Common to BioLab9192 and BioLab9193
JAX00406226	Heterozygote	Heterozygote	chr15:86002297	chr15:86172687	G	T	rs52645807	<a href="#">View variation in Ensembl</a>	ENSMUST000000044332	ENSMUSG000000035891	Transition	Cerk	intron variant	Common to BioLab9192 and BioLab9193
JAX00409017	Heterozygote	Heterozygote	chr15:88384382	chr15:88563952	C	T	rs14100814	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00409126	Heterozygote	Heterozygote	chr15:88968959	chr15:89136465	A	T	rs48290470	<a href="#">View variation in Ensembl</a>	ENSMUST000000088827	ENSMUSG000000022610	Transversion	Mapk12	intron variant	Common to BioLab9192 and BioLab9193
JAX00410926	Heterozygote	Heterozygote	chr15:96569374	chr15:96739944	T	C	rs48036947	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00411059	Heterozygote	Heterozygote	chr15:96989354	chr15:97157923	C	T	rs48182636	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00413455	Heterozygote	Heterozygote	chr16:9063272	chr16:9063179	G	C	rs48602618	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00414361	Heterozygote	Heterozygote	chr16:13342641	chr16:13342648	C	T	rs49456373	<a href="#">View variation in Ensembl</a>	ENSMUST000000009713	ENSMUSG000000009569	Transition	Mki2	intron variant	Common to BioLab9192 and BioLab9193
JAX00415285	Heterozygote	Heterozygote	chr16:20362428	chr16:20362355	G	A	rs49482429	<a href="#">View variation in Ensembl</a>	ENSMUST00000137985	ENSMUST0000000022822	Transition	Abcc5	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00415853	Heterozygote	Heterozygote	chr16:24342006	chr16:24341920	A	G	rs32404746	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00418098	Heterozygote	Heterozygote	chr16:36052184	chr16:36052184	C	G	rs46417206	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00420368	Heterozygote	Heterozygote	chr16:49837883	chr16:49837770	A	G	rs52246773	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00420501	Heterozygote	Heterozygote	chr16:50256397	chr16:50256284	T	A	rs47397786	<a href="#">View variation in Ensembl</a>	ENSMUST000000066037	ENSMUST0000000022641	Transversion	Bbx	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00423388	Heterozygote	Heterozygote	chr16:66752274	chr16:66752029	G	T	rs50218064	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00424705	Heterozygote	Heterozygote	chr16:73521557	chr16:73521312	G	C	rs52491942	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00428853	Heterozygote	Heterozygote	chr16:96037824	chr16:94816217	C	T	rs48269064	<a href="#">View variation in Ensembl</a>	ENSMUST000000099508	ENSMUSG000000043301	Transition	Kcnj6	intron variant	Common to BioLab9192 and BioLab9193
JAX00432290	Heterozygote	Heterozygote	chr17:14614074	chr17:14471067	A	G	rs47140559	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00433869	Heterozygote	Heterozygote	chr17:24375293	chr17:24423834	G	T	rs50314681	<a href="#">View variation in Ensembl</a>	ENSMUST00000175529	ENSMUST00000000093270	Transversion	Mir5134; Conf	upstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00433904	Heterozygote	Heterozygote	chr17:24551729	chr17:24414784	C	T	rs51582734	<a href="#">View variation in Ensembl</a>	ENSMUST00000117337	ENSMUST00000000024130	Transition	Airc3; D330041H03	downstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00434099	Heterozygote	Heterozygote	chr17:26286679	chr17:26148734	A	G	rs33780818	<a href="#">View variation in Ensembl</a>	ENSMUST00000162862	ENSMUST0000000036636	Transition	Clec7	upstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00434642	Heterozygote	Heterozygote	chr17:26928271	chr17:26928271	C	G	rs49955526	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00436062	Heterozygote	Heterozygote	chr17:31890232	chr17:31753287	T	C	rs51256607	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00436375	Heterozygote	Heterozygote	chr17:32763874	chr17:32763874	G	A	rs46370320	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00438759	Heterozygote	Heterozygote	chr17:43168518	chr17:43031569	G	A	rs52078668	<a href="#">View variation in Ensembl</a>	ENSMUST000000024708	ENSMUSG000000023915	Transition	Tnfrsf21	intron variant	Common to BioLab9192 and BioLab9193
JAX00440916	Heterozygote	Heterozygote	chr17:49675188	chr17:49653863	C	T	rs52583186	<a href="#">View variation in Ensembl</a>	ENSMUST000000057610	ENSMUSG000000042620	Transition	Daam2	intron variant	Common to BioLab9192 and BioLab9193
JAX00442404	Heterozygote	Heterozygote	chr17:56388111	chr17:56248688	C	T	rs45853093	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00442437	Heterozygote	Heterozygote	chr17:56649910	chr17:56510557	G	T	rs51546917	<a href="#">View variation in Ensembl</a>	ENSMUST000000052211	ENSMUSG000000044526	Transition	ZnrF4	downstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00444801	Heterozygote	Heterozygote	chr17:83599934	chr17:83200594	C	T	rs51996655	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00454682	Heterozygote	Heterozygote	chr18:28147283	chr18:27988792	T	C	rs48123222	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00458212	Heterozygote	Heterozygote	chr18:46149538	chr18:46149538	A	G	rs31959553	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00463156	Heterozygote	Heterozygote	chr18:67644245	chr18:67644245	G	A	rs37017352	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00469724	Heterozygote	Heterozygote	chr19:6903821	chr19:6829231	T	C	rs49335384	<a href="#">View variation in Ensembl</a>	ENSMUST000000025903	ENSMUST0000000024960	Transition	Rpe6ka4	3 prime UTR variant	Common to BioLab9192 and BioLab9193
JAX00469748	Heterozygote	Heterozygote	chr19:70364466	chr19:6961976	G	C	rs31309183	<a href="#">View variation in Ensembl</a>	ENSMUST000000025912	ENSMUSG000000025912	Transversion	Pcb3	synonymous variant	Common to BioLab9192 and BioLab9193
JAX00475269	Heterozygote	Heterozygote	chr19:29583168	chr19:29588679	C	T	rs39489646	<a href="#">View variation in Ensembl</a>	ENSMUST00000180737	ENSMUST0000000097855	Transversion	ACOR3309.1	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00484510	Heterozygote	Heterozygote	chr2:19465877	chr2:19444250	A	C	rs27153965	<a href="#">View variation in Ensembl</a>	ENSMUST000000062960	ENSMUST0000000026734	Transversion	4921504E06Rik	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00485790	Heterozygote	Heterozygote	chr2:26955172	chr2:27099652	C	T	rs27196856	<a href="#">View variation in Ensembl</a>	ENSMUST00000130600	ENSMUSG000000036040	Transition	Adams2	upstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00486645	Heterozygote	Heterozygote	chr2:31730446	chr2:31883526	C	T	rs27200765	<a href="#">View variation in Ensembl</a>	ENSMUST00000140104	ENSMUSG000000026436	Transition	Gm13441; Lamc3	downstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00486680	Heterozygote	Heterozygote	chr2:32070786	chr2:32215286	T	C	rs27171781	<a href="#">View variation in Ensembl</a>	ENSMUST00000140015	ENSMUST000000039262	Transition	Prrc2b	upstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00487207	Heterozygote	Heterozygote	chr2:35911091	chr2:35911091	A	G	rs27164392	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00500510	Heterozygote	Heterozygote	chr2:115862574	chr2:116036838	A	G	rs27426721	<a href="#">View variation in Ensembl</a>	ENSMUST00000135543	ENSMUST0000000027210	Transition	Meis2	downstream gene variant;	Common to BioLab9192 and BioLab9193
JAX00501882	Heterozygote	Heterozygote	chr2:123508656	chr2:123682020	A	G	rs27475419	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00505901	Heterozygote	Heterozygote	chr2:143487929	chr2:143661793	C	G	rs27295719	<a href="#">View variation in Ensembl</a>	ENSMUST000000028905	ENSMUSG000000027419	Transition	Pcsk2	intron variant	Common to BioLab9192 and BioLab9193
JAX00512318	Heterozygote	Heterozygote	chr2:174360744	chr2:174536243	G	A	rs27676414	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00513034	Heterozygote	Heterozygote	chr2:179417443	chr2:179682738	C	T	rs27639385	<a href="#">View variation in Ensembl</a>	ENSMUST000000000314	ENSMUST0000000003005	Transition	Cdh4	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00516660	Heterozygote	Heterozygote	chr3:22296895	chr3:22397973	C	T	rs36376010	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00520821	Heterozygote	Heterozygote	chr3:40658331	chr3:40658331	T	A	rs47468952	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	N/A	Common to BioLab9192 and BioLab9193
JAX00522317	Heterozygote	Heterozygote	chr3:49600336	chr3:49796414	T	G	rs38369527	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00524581	Heterozygote	Heterozygote	chr3:61168263	chr3:61364341	C	G	rs30825562	<a href="#">View variation in Ensembl</a>	ENSMUST000000066298	ENSMUST00000000053706	Transition	B430305J3Rik; Rex	5 prime UTR variant; upstream gene variant	Common to BioLab9192 and BioLab9193
JAX00525991	Heterozygote	Heterozygote	chr3:69024256	chr3:69203341	G	A	rs30984865	<a href="#">View variation in Ensembl</a>	ENSMUST00000029354	ENSMUST0000000027783	Transition	Arl14; Arl14	upstream gene variant	Common to BioLab9192 and BioLab9193
JAX00530537	Heterozygote	Heterozygote	chr3:95309323	chr3:95305204	T	A	rs33125555	<a href="#">View variation in Ensembl</a>	ENSMUST00000015664	ENSMUSG000000028111	Transversion	Ctsk	intron variant	Common to BioLab9192 and BioLab9193
JAX00532579	Heterozygote	Heterozygote	chr3:103704342	chr3:103900419	T	C	rs33554168	<a href="#">View variation in Ensembl</a>	ENSMUST00000146071	ENSMUST0000000027843	Transition	Ptpn22; Gm15602	intron variant; NMD transcript	Common to BioLab9192 and BioLab9193
JAX00532925	Heterozygote	Heterozygote	chr3:105362168	chr3:105590259	G	C	rs33639172	<a href="#">View variation in Ensembl</a>	ENSMUST00000118360	ENSMUSG000000040836	Transition	Kcnq3	intron variant; nc transcript	Common to BioLab9192 and BioLab9193
JAX00535818	Heterozygote	Heterozygote	chr3:121101741	chr3:121398823	T	C	rs48675817	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00536019	Heterozygote	Heterozygote	chr3:122079693	chr3:122376775	G	A	rs36270582	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00536062	Heterozygote	Heterozygote	chr3:122198897	chr3:122495979	C	T	rs31427165	<a href="#">View variation in Ensembl</a>	ENSMUST000000029766	ENSMUSG000000028121	Transition	Bcar3	intron variant	Common to BioLab9192 and BioLab9193
JAX00538269	Heterozygote	Heterozygote	chr3:133283705	chr3:133620741	C	G	rs456990751	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00539227	Heterozygote	Heterozygote	chr3:138239068	chr3:138576104	T	C	rs30924065	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to BioLab9192 and BioLab9193
JAX00544451	Heterozygote	Heterozygote	chr4:8148519	chr4:8221372	C	T	rs27688760	<a href="#">View variation in Ensembl</a>	ENSMUST000000066674	ENSMUSG000000041261	Transition	Car8	intron variant	Common to BioLab9192 and BioLab9193
JAX00546878	Heterozygote	Heterozygote	chr4:24347014	chr4:24419967	A	T	rs27718962	<a href="#">View variation in Ensembl</a>	ENSMUST00000121241	ENSMUSG000000081148	Transversion	Gm11891	upstream gene variant	Common to BioLab9192 and BioLab9193
JAX0054														



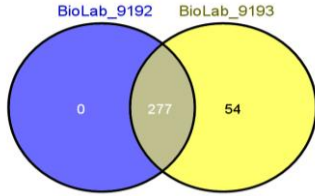
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 Algorithm version: EASANA 2014\_1  
 GS contact (name/email/phone): Khema JAGOOISING khema.jagoosing@genosplice.com +33 (0) 1 57 27 47 46

List of Heterozygous SNPs (with reference to C57BL/6J strain)

snpld	BioLabs_9192	BioLabs_9193	Chromosome coordinate (mm9)	Chromosome coordinate (mm10)	AlleleRef	AlleleAlt	rNumber	Link to Ensembl	Ensembl Transcript ID	Ensembl Gene ID	Substitution Type	Locus Symbol	Function Class	Group
JAX00550491	Heterozygote	Heterozygote	chr4:49456703	chr4 NA	T	C	rs27860737	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00554326	Heterozygote	Heterozygote	chr4:72287166	chr4:72626132	T	C	rs28062194	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00556769	Heterozygote	Heterozygote	chr4:86135274	chr4:864893043	T	A	rs28083043	<a href="#">View variation in Ensembl</a>	ENSMUST00000151481; ENSMUST000	ENSMUSG00000028492	Transversion	Fam154a	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00558658	Heterozygote	Heterozygote	chr4:95697602	chr4:96030911	A	G	rs28082756	<a href="#">View variation in Ensembl</a>	ENSMUST00000132513	ENSMUSG00000028571	Transversion	Cyp21b3	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00561802	Heterozygote	Heterozygote	chr4:109095786	chr4:109423181	G	A	rs28150993	<a href="#">View variation in Ensembl</a>	ENSMUST00000124209; ENSMUST000	ENSMUSG00000028555	Transition	Ttc39a	intron variant; 3 prime UTR	Common to Biobabs9192 and Biobabs9193
JAX00562770	Heterozygote	Heterozygote	chr4:115610823	chr4:115938219	G	A	rs27478587	<a href="#">View variation in Ensembl</a>	ENSMUST00000084338; ENSMUST000	ENSMUSG00000028707	Transition	Dmbx1	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00564118	Heterozygote	Heterozygote	chr4:121297557	chr4 NA	G	A	rs27514721	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00564786	Heterozygote	Heterozygote	chr4:124658150	chr4:124978906	G	A	rs27568503	<a href="#">View variation in Ensembl</a>	ENSMUST00000146679	ENSMUSG00000087011	Transversion	Gm12930	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00564966	Heterozygote	Heterozygote	chr4:125138092	chr4:125520848	A	G	rs27536879	<a href="#">View variation in Ensembl</a>	ENSMUST00000030676	ENSMUSG00000001985	Transversion	Grik3	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00565182	Heterozygote	Heterozygote	chr4:125820895	chr4 NA	G	A	rs27550084	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00565235	Heterozygote	Heterozygote	chr4:126106360	chr4:126429116	T	A	rs27548251	<a href="#">View variation in Ensembl</a>	ENSMUST00000123233; ENSMUST000	ENSMUSG00000002842	Transversion	Agc3	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00565389	Heterozygote	Heterozygote	chr4:126807535	chr4:127130291	G	A	rs27565843	<a href="#">View variation in Ensembl</a>	ENSMUST00000106097; ENSMUST000	ENSMUSG00000070737	Transversion	Gm12942	downstream gene variant	Common to Biobabs9192 and Biobabs9193
JAX00565422	Heterozygote	Heterozygote	chr4:126910815	chr4:127233571	C	T	rs27550860	<a href="#">View variation in Ensembl</a>	ENSMUST00000106092; ENSMUST000	ENSMUSG00000042388	Transition	Dtgap3	synonymous variant	Common to Biobabs9192 and Biobabs9193
JAX00566396	Heterozygote	Heterozygote	chr4:126852847	chr4:130175603	C	T	rs27502966	<a href="#">View variation in Ensembl</a>	ENSMUST00000030560; ENSMUST000	ENSMUSG00000028776	Transversion	Tinag1	upstream gene variant	Common to Biobabs9192 and Biobabs9193
JAX00568713	Heterozygote	Heterozygote	chr4:139495850	chr4:139939935	A	G	rs27611928	<a href="#">View variation in Ensembl</a>	ENSMUST00000153921	ENSMUSG00000089528	Transversion	4933427122Rik	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00570071	Heterozygote	Heterozygote	chr4:147461853	chr4:148087744	C	T	rs27617312	<a href="#">View variation in Ensembl</a>	ENSMUST00000152323; ENSMUST000	ENSMUSG00000029007	Transition	Agtrap	upstream gene variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00574855	Heterozygote	Heterozygote	chr5:117112711	chr5:17606893	G	A	rs36851211	<a href="#">View variation in Ensembl</a>	ENSMUST00000030568; ENSMUST000	ENSMUSG00000002810	Transition	Sema3c	intron variant; NMD transcript	Common to Biobabs9192 and Biobabs9193
JAX00577672	Heterozygote	Heterozygote	chr5:30607932	chr5:30281406	C	A	rs50802518	<a href="#">View variation in Ensembl</a>	ENSMUST00000101448	ENSMUSG00000073102	Transversion	Drc1	5 prime UTR variant	Common to Biobabs9192 and Biobabs9193
JAX00578064	Heterozygote	Heterozygote	chr5:32697842	chr5:32329469	T	A	rs37052334	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00578544	Heterozygote	Heterozygote	chr5:35438774	chr5:350096125	T	A	rs32538899	<a href="#">View variation in Ensembl</a>	ENSMUST00000153664; ENSMUST000	ENSMUSG00000029103	Transversion	Lrpap1	intron variant; downstream	Common to Biobabs9192 and Biobabs9193
JAX00579526	Heterozygote	Heterozygote	chr5:39116386	chr5:38778147	C	T	rs19668963	<a href="#">View variation in Ensembl</a>	ENSMUST00000169819; ENSMUST000	ENSMUSG00000003915	Transition	Clnk	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00581294	Heterozygote	Heterozygote	chr5:48166409	chr5:47774170	C	T	rs32861715	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00583933	Heterozygote	Heterozygote	chr5:61757227	chr5:61365988	A	G	rs50543457	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00588394	Heterozygote	Heterozygote	chr5:90934569	chr5:90505543	G	C	rs13705208	<a href="#">View variation in Ensembl</a>	ENSMUST00000042755	ENSMUSG00000005432	Transversion	Afp	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00592975	Heterozygote	Heterozygote	chr5:114504064	chr5:114050455	C	A	rs36990707	<a href="#">View variation in Ensembl</a>	ENSMUST00000140151; ENSMUST000	ENSMUSG00000004208	Transversion	Svop	non coding exon variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00599125	Heterozygote	Heterozygote	chr5:139296743	chr5:138820789	G	A	rs37273707	<a href="#">View variation in Ensembl</a>	ENSMUST00000179205	ENSMUSG00000004504	Transversion	Gm5294	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00599531	Heterozygote	Heterozygote	chr5:141200103	chr5:140724149	C	T	rs46909580	<a href="#">View variation in Ensembl</a>	ENSMUST00000100505; ENSMUST000	ENSMUSG00000000148	Transition	Brat1; Amz1	downstream gene variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00600387	Heterozygote	Heterozygote	chr5:145640131	chr5:144879262	T	C	rs38221211	<a href="#">View variation in Ensembl</a>	ENSMUST00000126822; ENSMUST000	ENSMUSG00000003870	Transition	Smurf1	non coding exon variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00601089	Heterozygote	Heterozygote	chr5:149118468	chr5:148306892	C	T	rs33628943	<a href="#">View variation in Ensembl</a>	ENSMUST00000152105; ENSMUST000	ENSMUSG00000029651	Transition	Mtus2	intron variant; NMD transcript	Common to Biobabs9192 and Biobabs9193
JAX00607514	Heterozygote	Heterozygote	chr6:39013061	chr6:38063061	G	A	rs50603597	<a href="#">View variation in Ensembl</a>	ENSMUST00000157638; ENSMUST000	ENSMUSG00000008263	Transition	Gm24779; Atp0v04	upstream gene variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00610285	Heterozygote	Heterozygote	chr6:53420768	chr6:53470774	A	G	rs29947314	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00611136	Heterozygote	Heterozygote	chr6:57176682	chr6:57226688	A	C	rs37997731	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00617709	Heterozygote	Heterozygote	chr6:92415748	chr6:92465754	T	G	rs49195252	<a href="#">View variation in Ensembl</a>	ENSMUST00000032093; ENSMUST000	ENSMUSG00000030020	Transversion	Prickle2	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00621574	Heterozygote	Heterozygote	chr6:108435142	chr6:108485148	C	A	rs36397599	<a href="#">View variation in Ensembl</a>	ENSMUST00000032192	ENSMUSG00000003102	Transversion	Itp1r	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00628075	Heterozygote	Heterozygote	chr6:138077231	chr6:138128711	A	G	rs32015328	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00630765	Heterozygote	Heterozygote	chr6:148180091	chr6:148157559	T	A	rs37514399	<a href="#">View variation in Ensembl</a>	ENSMUST00000032443; ENSMUST000	ENSMUSG00000030303	Transversion	Far2	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00632511	Heterozygote	Heterozygote	chr7:17379099	chr7:16739370	C	T	rs51000953	<a href="#">View variation in Ensembl</a>	ENSMUST00000135817; ENSMUST000	ENSMUSG00000001918	Transition	Sic1a5	downstream gene variant	Common to Biobabs9192 and Biobabs9193
JAX00633066	Heterozygote	Heterozygote	chr7:20149182	chr7:19563833	G	A	rs32415997	<a href="#">View variation in Ensembl</a>	ENSMUST00000051364; ENSMUST000	ENSMUSG00000004479	Transition	Gemin7; Ppp1r37	downstream gene variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00633399	Heterozygote	Heterozygote	chr7:25254199	chr7:24469180	G	C	rs151748575	<a href="#">View variation in Ensembl</a>	ENSMUST00000002284	ENSMUSG00000004623	Transversion	Pleur	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00633529	Heterozygote	Heterozygote	chr7:25883082	chr7:25098063	C	A	rs47138411	<a href="#">View variation in Ensembl</a>	ENSMUST00000176408; ENSMUST000	ENSMUSG00000008492	Transversion	Pou2f2	intron variant; upstream gene variant	Common to Biobabs9192 and Biobabs9193
JAX00633538	Heterozygote	Heterozygote	chr7:25902929	chr7:25117910	C	A	rs50783649	<a href="#">View variation in Ensembl</a>	ENSMUST00000175754; ENSMUST000	ENSMUSG00000008496	Transition	Pou2f2	downstream gene variant	Common to Biobabs9192 and Biobabs9193
JAX00644524	Heterozygote	Heterozygote	chr7:85571955	chr7 NA	C	T	rs39180219	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00645595	Heterozygote	Heterozygote	chr7:90961810	chr7:83813300	T	G	rs36907570	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00651216	Heterozygote	Heterozygote	chr7:118024802	chr7:111881288	T	G	rs32251923	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00652241	Heterozygote	Heterozygote	chr7:123412165	chr7:116288651	T	C	rs49344162	<a href="#">View variation in Ensembl</a>	ENSMUST00000182890; ENSMUST000	ENSMUSG00000045659	Transition	Plekha7	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00652769	Heterozygote	Heterozygote	chr7:125201929	chr7:119058315	G	A	rs32441551	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00654096	Heterozygote	Heterozygote	chr7:130173737	chr7:129030223	G	A	rs31143420	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00655997	Heterozygote	Heterozygote	chr7:136519063	chr7:129375549	C	T	rs36516625	<a href="#">View variation in Ensembl</a>	ENSMUST00000094018	ENSMUSG00000070366	Transition	Ppappc1a	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00657025	Heterozygote	Heterozygote	chr7:142395653	chr7:136203901	T	C	rs33464942	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00657723	Heterozygote	Heterozygote	chr7:146401914	chr7:138210231	A	G	rs33724791	<a href="#">View variation in Ensembl</a>	ENSMUST00000161213; ENSMUST000	ENSMUSG000000091002	Transversion	Tcerg1f	intron variant; nc transcript	Common to Biobabs9192 and Biobabs9193
JAX00660885	Heterozygote	Heterozygote	chr8:11687265	chr8:11687265	A	G	rs36556902	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00661237	Heterozygote	Heterozygote	chr8:13024966	chr8:13024966	G	C	rs16815068	<a href="#">View variation in Ensembl</a>	ENSMUST00000033820; ENSMUST000	ENSMUSG00000031443	Transition	F7; Gm15352; Mcf2	upstream gene variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00661767	Heterozygote	Heterozygote	chr8:15085180	chr8:15085180	A	G	rs30183039	<a href="#">View variation in Ensembl</a>	ENSMUST00000033842	ENSMUSG00000031461	Transition	Myom2	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00671930	Heterozygote	Heterozygote	chr8:73548473	chr8 NA	A	G	rs48023091	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00672078	Heterozygote	Heterozygote	chr8:74426994	chr8 NA	C	T	rs48820024	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to Biobabs9192 and Biobabs9193
JAX00674178	Heterozygote	Heterozygote	chr8:85402814	chr8:82878915	G	A	rs37254704	<a href="#">View variation in Ensembl</a>	ENSMUST00000078525	ENSMUSG00000044727	Transition	Rnf150	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00680006	Heterozygote	Heterozygote	chr8:112148659	chr8:109624759	A	G	rs31181668	<a href="#">View variation in Ensembl</a>	ENSMUST00000057344; ENSMUST000	ENSMUSG00000008827	Transition	Pkd1f3	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00681669	Heterozygote	Heterozygote	chr8:120083065	chr8:117559165	C	T	rs31570360	<a href="#">View variation in Ensembl</a>	ENSMUST00000081232	ENSMUSG000000034330	Transition	Picp2	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00684928	Heterozygote	Heterozygote	chr9:6469747	chr9:6469747	A	G	rs49775350	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00687120	Heterozygote	Heterozygote	chr9:20841477	chr9:21037033	A	T	rs48967939	<a href="#">View variation in Ensembl</a>	ENSMUST00000019616; ENSMUST000	ENSMUSG00000003214	Transversion	Icam5; AC159314.1	synonymous variant; non coding exon variant; intron	Common to Biobabs9192 and Biobabs9193
JAX00689950	Heterozygote	Heterozygote	chr9:34688744	chr9:34881159	C	T	rs39714658	<a href="#">View variation in Ensembl</a>	ENSMUST0000015148	ENSMUSG000000032036	Transition	Kirrel3	intron variant	Common to Biobabs9192 and Biobabs9193
JAX00693065	Heterozygote	Heterozygote	chr9:46831832	chr9:47023749	T	C	rs32678438	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00693412	Heterozygote	Heterozygote	chr9:48075241	chr9:48267158	T	A	rs33631494	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transversion	N/A	intergenic variant	Common to Biobabs9192 and Biobabs9193
JAX00694744	Heterozygote	Heterozygote												

Customer name: Janvier Labs  
 Project name: SNP Genotyping of Biolabs\_9192 vs. Biolabs\_9193  
 Organism: Mouse  
 Analysis level: Gene  
 Date: 2014-08-13  
 Algorithm version: EASANA 2014\_1  
 GS contact (name/email/phone): Khema JAGGOOSING khema.jaggoosing@genosplice.com +33 (0) 1 57 27 47 46



List of Heterozygous SNPs (with reference to C57BL/6J strain)

snpld	Biolabs_9192	Biolabs_9193	Chromosome coordinate (mm9)	Chromosome coordinate (mm10)	AlleleRef	AlleleAlt	rsNumber	Link to Ensembl	Ensembl Transcript ID	Ensembl Gene ID	Substitution Type	Locus Symbol	Function Class	Group
JAX00707554	Heterozygote	Heterozygote	chr9:19460469	chr9:11951351	C	T	rs49260001	<a href="#">View variation in Ensembl</a>	ENSMUST00000120420; ENSMUST000	ENSMUSG00000032511	Transition	Scn5a	intron variant	Common to Biolab9192 and Biolab9193
JAX00723499	Heterozygote	Heterozygote	chr11:73274306	chr11:NA	C	A	rs29419974	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Common to Biolab9192 and Biolab9193
JAX00724064	Heterozygote	Heterozygote	chr10:106931056	chr10:107494000	T	C	rs8255514	<a href="#">View variation in Ensembl</a>	ENSMUST00000044210	ENSMUSG00000035923	Transition	Myf6	intron variant	Common to Biolab9192 and Biolab9193
JAX00724805	Heterozygote	Heterozygote	chr8:4236429	chr8:4236429	C	T	NA	<a href="#">View variation in Ensembl</a>	ENSMUST00000110999; ENSMUST000	ENSMUSG00000002948	Transition	Map2k7; Lrrc8e	upstream gene variant; 3	Common to Biolab9192 and Biolab9193
JAX00724902	Heterozygote	Heterozygote	chr9:70968194	chr9:70920387	G	A	NA	<a href="#">View variation in Ensembl</a>	ENSMUST00000034731	ENSMUSG00000032207	Transition	Lipc	synonymous variant	Common to Biolab9192 and Biolab9193
JAX00716648	No call	Heterozygote	chrX:5203995	chrX:5626877	T	C	rs33270212	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716831	No call	Heterozygote	chrX:7718384	chrX:8141258	G	A	rs33391983	<a href="#">View variation in Ensembl</a>	ENSMUST00000124018; ENSMUST000	ENSMUSG00000005188	Transition	290002K06Rik; Rbr	upstream gene variant; 6	Specific to Biolab_9193
JAX00716937	No call	Heterozygote	chrX:8867760	chrX:NA	A	G	rs33455471	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX00717482	No call	Heterozygote	chrX:16438330	chrX:16861204	A	G	rs33773058	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00717927	No call	Heterozygote	chrX:53204512	chrX:55951335	G	A	rs29118987	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007179518	No call	Heterozygote	chrX:56266550	chrX:59013373	T	C	rs29058053	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007179909	No call	Heterozygote	chrX:61571459	chrX:64318284	A	C	rs29051433	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007180409	No call	Heterozygote	chrX:68332044	chrX:71078669	C	T	rs29041963	<a href="#">View variation in Ensembl</a>	ENSMUST00000114629; ENSMUST000	ENSMUSG00000005940	Transition	Mamld1	intron variant	Specific to Biolab_9193
JAX007180592	No call	Heterozygote	chrX:70843489	chrX:73598150	C	T	rs3166566	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007181336	No call	Heterozygote	chrX:81054222	chrX:83808883	A	T	rs29072520	<a href="#">View variation in Ensembl</a>	ENSMUST00000114000	ENSMUSG000000045103	Transversion	Dmd	intron variant	Specific to Biolab_9193
JAX007181919	No call	Heterozygote	chrX:88940141	chrX:91694802	A	G	rs29077774	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007182028	No call	Heterozygote	chrX:90395788	chrX:NA	A	G	rs31798865	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX007182188	No call	Heterozygote	chrX:92607619	chrX:95412280	C	T	rs29085096	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007182236	No call	Heterozygote	chrX:93252417	chrX:96057078	A	G	rs31856602	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007182784	No call	Heterozygote	chrX:100850923	chrX:103655584	C	A	rs29080706	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007182984	No call	Heterozygote	chrX:103576088	chrX:NA	T	C	rs29094940	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX007183328	No call	Heterozygote	chrX:108206092	chrX:111010753	T	G	rs29088987	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007183787	No call	Heterozygote	chrX:114489631	chrX:NA	T	A	rs29103286	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX007184211	No call	Heterozygote	chrX:121316876	chrX:NA	A	G	rs29113267	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX007186788	No call	Heterozygote	chrX:160152642	chrX:163714710	A	G	rs31409500	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX007186803	No call	Heterozygote	chrX:160395544	chrX:163957612	C	T	rs31415330	<a href="#">View variation in Ensembl</a>	ENSMUST00000090840; ENSMUST000	ENSMUSG000000031370	Transition	Zrsr2	intron variant; nc transcri	Specific to Biolab_9193
JAX00708816	No call	Heterozygote	chrX:7452451	chrX:7875325	G	A	rs33373933	<a href="#">View variation in Ensembl</a>	ENSMUST00000115668; ENSMUST000	ENSMUSG000000031154	Transition	Otduf5; Pim2	downstream gene variant	Specific to Biolab_9193
JAX00708857	No call	Heterozygote	chrX:7794192	chrX:8217066	C	T	rs33397169	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00709006	No call	Heterozygote	chrX:9129384	chrX:NA	G	A	rs33453473	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX00709627	No call	Heterozygote	chrX:14586556	chrX:15009430	C	T	rs33722813	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00710135	No call	Heterozygote	chrX:20587658	chrX:21010532	A	G	rs29688664	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00710304	No call	Heterozygote	chrX:22621266	chrX:23044140	A	C	rs29754209	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00710956	No call	Heterozygote	chrX:41738965	chrX:44385788	T	A	rs30030220	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00711597	No call	Heterozygote	chrX:49366498	chrX:52013321	T	C	rs30325128	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00711706	No call	Heterozygote	chrX:50115176	chrX:52761999	G	A	rs30406942	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00712171	No call	Heterozygote	chrX:55538699	chrX:58285523	T	C	rs29060418	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00713740	No call	Heterozygote	chrX:70681115	chrX:73435776	G	A	rs29041179	<a href="#">View variation in Ensembl</a>	ENSMUST00000131140; ENSMUST000	ENSMUSG000000031371	Transition	Haus7; Trex2	downstream gene variant	Specific to Biolab_9193
JAX00713851	No call	Heterozygote	chrX:71618699	chrX:7437360	A	G	rs29035532	<a href="#">View variation in Ensembl</a>	ENSMUST00000126191; ENSMUST000	ENSMUSG00000015290	Transition	Uhh4; Slc10a3	upstream gene variant	Specific to Biolab_9193
JAX00713888	No call	Heterozygote	chrX:72031359	chrX:74786020	A	G	rs31667950	<a href="#">View variation in Ensembl</a>	ENSMUST00000118796; ENSMUST000	ENSMUSG000000082170	Transition	Gm8617; Gm14695	downstream gene variant	Specific to Biolab_9193
JAX00714275	No call	Heterozygote	chrX:75603246	chrX:NA	A	G	rs29033566	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	N/A	Specific to Biolab_9193
JAX00714279	No call	Heterozygote	chrX:75892561	chrX:78447222	C	T	rs29031090	<a href="#">View variation in Ensembl</a>	ENSMUST00000114024; ENSMUST000	ENSMUSG00000047996	Transition	Prrg1	downstream gene variant	Specific to Biolab_9193
JAX00714472	No call	Heterozygote	chrX:77965486	chrX:80720147	G	A	rs31638327	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00715394	No call	Heterozygote	chrX:87137151	chrX:89891812	C	G	rs31805984	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00715809	No call	Heterozygote	chrX:91092698	chrX:93847359	G	C	rs31784723	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716089	No call	Heterozygote	chrX:93992520	chrX:96797181	A	G	rs31851652	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716285	No call	Heterozygote	chrX:96121562	chrX:98926233	T	C	rs29088578	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716343	No call	Heterozygote	chrX:96381671	chrX:99186332	G	C	rs29086629	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716349	No call	Heterozygote	chrX:96441612	chrX:99246273	T	C	rs29085854	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00716600	No call	Heterozygote	chrX:98572635	chrX:101377296	A	C	rs29082085	<a href="#">View variation in Ensembl</a>	ENSMUST00000052130; ENSMUST000	ENSMUSG00000047797	Transition	Gjb1	5 prime UTR variant; intr	Specific to Biolab_9193
JAX00717015	No call	Heterozygote	chrX:102948668	chrX:105753229	C	A	rs29077432	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00717272	No call	Heterozygote	chrX:105206230	chrX:108010891	C	G	rs29090212	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00717548	No call	Heterozygote	chrX:108385553	chrX:111190214	A	G	rs33890717	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00717995	No call	Heterozygote	chrX:113835181	chrX:116721572	A	T	rs29104586	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00717998	No call	Heterozygote	chrX:113874526	chrX:116760917	A	T	rs29103014	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00719229	No call	Heterozygote	chrX:130360946	chrX:133826407	A	T	rs29271807	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00719859	No call	Heterozygote	chrX:135366355	chrX:138831816	A	T	rs29260585	<a href="#">View variation in Ensembl</a>	ENSMUST00000113063; ENSMUST000	ENSMUSG000000059203	Transversion	Ifitrap2	intron variant	Specific to Biolab_9193
JAX00720348	No call	Heterozygote	chrX:138703435	chrX:142268892	G	A	rs29288031	<a href="#">View variation in Ensembl</a>	N/A	N/A	Transition	N/A	intergenic variant	Specific to Biolab_9193
JAX00721636	No call	Heterozygote	chrX:152050768	chrX:155616225	G	A	rs29303116	<a href="#">View variation in Ensembl</a>	ENSMUST00000170236; ENSMUST000	ENSMUSG000000041552	Transition	Ptchd1	intron variant; nc transcri	Specific to Biolab_9193
JAX00724964	No call	Heterozygote	chrX:81442274	chrX:84196935	G	A	NA	<a href="#">View variation in Ensembl</a>	ENSMUST00000114000; ENSMUST000	ENSMUSG000000045103	Transition	Dmd	intron variant; nc transcri	Specific to Biolab_9193