Table S7A. Concordance of MouseDivGeno and 1000 Genomes Project sequencing calls for 54 SNPs.

1000 Genomes

MouseDivGeno	AA	ВВ	AB	Low Coverage	Total	
AA	2,800	2	187	65	3,054	
BB	150	3,540	105	40	3,835	
AB	49	47	2,037	28	2,161	
V	74	91	10	3	178	
Total	3,073	3,680	2,339	136	9,228	

Table S7B. Details of discordant calls.

	SNPs		%	Cases	%
Total	5	54		9435	
Concordant, No Off-target SNPs	5	4	100.0%	8266	87.6%
Discordant, No Off-target SNPs	4	4	81.5%	220	2.3%
Coverage between 0 and 1 SD less than mean				97	1.0%
Coverage more than 1 SD less than mean				64	0.7%
Coverage >= mean				59	0.6%
CalledABH, observed AA or BB				21	
Called AA or BB, observed AB				27	
Called V, observed AA or BB				6	
Called V, observed AB				4	
Called AA or BB, observed opposite allele				1	
Concordant, Off-target SNPs	3	35	64.8%	161	1.7%
Discordant, Off-target SNPs	3	6	66.7%	788	8.4%
Concordant target genotype call				506	5.4%
Called AA or BB, observed opposite allele and off-target Het SNP				276	2.9%
Other				6	0.1%

 Table S7C.
 MouseDivGeno VINO calling rate.

MouseDivGeno Call	CEU	CHB/JPT	YRI
Concordant VINO Calls	31	53	82
Off-Target SNPs	202	289	482
VINO Call Rate	15.3%	18.3%	17.0%