

**Genetic Background Monitoring Report**

No.: 120313-30

BRC No.: RBRC02258

Strain Name (Official Nomenclature): B6;129S(Cg)-Grin2c<tm1Nak>

Strain Type: Targeted (Knock-out)

Strain of Origin: 129S/SvEv-Gpi1<c>

Donor Strain: CCE/EK.CCE (ES cell)

Background Strain: C57BL/6, 129S and ? mixed

Date: 2012/6/19

Locus	Type	ID of animals surveyed (Generation <sup>1</sup> ) / Sex		080905C03
		Location <sup>2</sup>		(G? <sup>+</sup> F2) Male
1	<b>D1Mit3</b>	SSLP	Chr1:19802051-19802209	<b>B6/B6</b>
2	<b>D1Mit322</b>	SSLP	Chr1:Syntenic	<b>B6/129</b>
3	<b>D1Mit19</b>	SSLP	Chr1:73734337-73734492	<b>B6?/B6?</b>
4	<b>D1Mit306</b>	SSLP	Chr1:98827535-98827643	<b>B6/129</b>
5	<b>D1Mit501</b>	SSLP	Chr1:154473511-154473632	<b>B6/129</b>
6	<b>D1Mit150</b>	SSLP	Chr1:176558864-176559001	<b>B6/B6</b>
7	<b>D2Mit431</b>	SSLP	Chr2:27277814-27277911	<b>B6/B6</b>
8	<b>D2Mit9</b>	SSLP	Chr2:65277459-65277647	<b>B6?/B6?</b>
9	<b>D2Mit206</b>	SSLP	Chr2:106750096-106750239	<b>B6?/B6?</b>
10	<b>D2Mit493</b>	SSLP	Chr2:153798642-153798751	<b>B6/129</b>
11	<b>D2Mit456</b>	SSLP	Chr2:168761877-168761999	<b>129/129</b>
12	<b>D2Mit148</b>	SSLP	Chr2:178535250-178535364	<b>?/?</b>
13	<b>D3Mit151</b>	SSLP	Chr3:31137265-31137413	<b>129/129</b>
14	<b>D3Mit278</b>	SSLP	Chr3:71816030-71816141	<b>?/?</b>
15	<b>D3Mit318</b>	SSLP	Chr3:123334565-123334712	<b>B6/B6</b>
16	<b>D3Mit293</b>	SSLP	Chr3:148932688-148932790	<b>129/129</b>
17	<b>D4Mit149</b>	SSLP	Chr4:3584271-3584381	<b>129/129</b>
18	<b>D4Mit2</b>	SSLP	Chr4:25610387-25610576	<b>B6/B6</b>
19	<b>D4Mit17</b>	SSLP	Chr4:63026328-63026475	<b>B6/B6</b>
20	<b>D4Mit178</b>	SSLP	Chr4:66843059-66843205	<b>B6/B6</b>
21	<b>D4Mit308</b>	SSLP	Chr4:123838543-123838630	<b>B6/B6</b>
22	<b>D4Mit254</b>	SSLP	Chr4:153093974-153094108	<b>B6/129</b>
23	<b>D5Mit48</b>	SSLP	Chr5:8797672-8797875	<b>B6/B6</b>
24	<b>D5Mit267</b>	SSLP	Chr5:Syntenic	<b>?/?</b>
25	<b>D5Mit398</b>	SSLP	Chr5:89700063-89700172	<b>B6/129</b>
26	<b>D5Mit95</b>	SSLP	Chr5:125309605-125309718	<b>B6/129</b>
27	<b>D5Mit320</b>	SSLP	Chr5:127286127-127286250	<b>B6/129</b>
28	<b>D5Mit374</b>	SSLP	Chr5:139608988-139609104	<b>B6/129</b>
29	<b>D6Mit316</b>	SSLP	Chr6:55505943-55506037	<b>?/?</b>
30	<b>D6Mit9</b>	SSLP	Chr6:87375892-87376028	<b>129/129</b>
31	<b>D6Mit102</b>	SSLP	Chr6:93413943-93414087	<b>?/?</b>
32	<b>D6Mit55</b>	SSLP	Chr6:114232092-114232201	<b>129/129</b>
33	<b>D6Mit339</b>	SSLP	Chr6:136372097-136372213	<b>?/?</b>
34	<b>D7Mit246</b>	SSLP	Chr7:31118079-31118215	<b>B6/B6</b>
35	<b>D7Mit81</b>	SSLP	Chr7:52767912-52768056	<b>B6/B6</b>
36	<b>D7Mit238</b>	SSLP	Chr7:126237672-126237821	<b>?/?</b>

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Background Strain: C57BL/6, 129S and ? mixed

Date: 2012/6/19

Locus	Type	ID of animals surveyed	
		(Generation <sup>1</sup> ) / Sex	080905C03 (G? <sup>+</sup> F2) Male
37 <b>D7Mit189</b>	SSLP	Chr7:Syntenic	<b>129/129</b>
38 <b>D8Mit293</b>	SSLP	Chr8:37226054-37226173	<b>B6/B6</b>
39 <b>D8Mit81</b>	SSLP	Chr8:91727514-91727649	<b>B6/B6</b>
40 <b>D8Mit14</b>	SSLP	Chr8:Syntenic	<b>B6/B6</b>
41 <b>D9Mit328</b>	SSLP	Chr9:41695932-41696113	<b>B6/129</b>
42 <b>D9Mit269</b>	SSLP	Chr9:87838840-87839011	<b>129/129</b>
43 <b>D9Mit214</b>	SSLP	Chr9:115307830-115307967	<b>B6/B6</b>
44 <b>D10Mit282</b>	SSLP	Chr10:20654078-20654202	<b>B6/B6</b>
45 <b>D10Mit223</b>	SSLP	Chr10:67674940-67675089	<b>B6/B6</b>
46 <b>D10Mit11</b>	SSLP	Chr10:91885360-91885556	<b>129/129</b>
47 <b>D10Mit180</b>	SSLP	Chr10:117587667-117587800	<b>?/?</b>
48 <b>D11Mit236</b>	SSLP	Chr11:45088548-45088651	<b>B6?/B6?</b>
49 <b>D11Mit260</b>	SSLP	Chr11:61609496-61609590	<b>?/?</b>
50 <b>D11Mit219</b>	SSLP	Chr11:72132472-72132603	<b>129/129</b>
51 <b>D11Mit333</b>	SSLP	Chr11:108575096-108575220	<b>?/?</b>
52 <b>D12Mit153</b>	SSLP	Chr12:35920169-35920310	<b>B6/129</b>
53 <b>D12Mit34</b>	SSLP	Chr12:70900839-70901009	<b>B6/B6</b>
54 <b>D12Mit102</b>	SSLP	Chr12:105536654-105536786	<b>129/129</b>
55 <b>D12Mit7</b>	SSLP	Chr12:Syntenic	<b>129/129</b>
56 <b>D13Mit117</b>	SSLP	Chr13:37654832-37654949	<b>B6/B6</b>
57 <b>D13Mit179</b>	SSLP	Chr13:44860362-44860453	<b>B6/129</b>
58 <b>D13Mit147</b>	SSLP	Chr13:98359080-98359187	<b>129/129</b>
59 <b>D13Mit35</b>	SSLP	Chr13:120128451-120128643	<b>B6/B6</b>
60 <b>D14Mit259</b>	SSLP	Chr14:54729500-54729624	<b>?/?</b>
61 <b>D14Mit193</b>	SSLP	Chr14:71921427-71921544	<b>129/129</b>
62 <b>D14Mit165</b>	SSLP	Chr14:106982674-106982807	<b>?/?</b>
63 <b>D15Mit136</b>	SSLP	Chr15:30776615-30776757	<b>B6/B6</b>
64 <b>D15Mit5</b>	SSLP	Chr15:43279930-43280030	<b>?/?</b>
65 <b>D15Mit29</b>	SSLP	Chr15:74075586-74075734	<b>?/?</b>
66 <b>D15Mit33</b>	SSLP	Chr15:83586169-83586316	<b>129/129</b>
67 <b>D16Mit131</b>	SSLP	Chr16:7319135-7319274	<b>B6/B6</b>
68 <b>D16Mit59</b>	SSLP	Chr16:38433970-38434154	<b>B6/B6</b>
69 <b>D16Mit50</b>	SSLP	Chr16:78953071-78953200	<b>B6/B6</b>
70 <b>D16Mit106</b>	SSLP	Chr16:98051757-98051902	<b>B6/129</b>
71 <b>D17Mit213</b>	SSLP	Chr17:16752157-16752280	<b>B6/B6</b>
72 <b>D17Mit108</b>	SSLP	Chr17:49744546-49744658	<b>B6/129</b>

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		(Generation <sup>1</sup> ) / Sex		(G? <sup>+</sup> F2)
		Location <sup>2</sup>		Male
73	<b>D17Mit187</b>	SSLP	Chr17:79631462-79631708	<b>B6/129</b>
74	<b>D18Mit177</b>	SSLP	Chr18:41142161-41142331	<b>129/129</b>
75	<b>D18Mit184</b>	SSLP	Chr18:66978897-66979068	<b>129/129</b>
76	<b>D18Mit142</b>	SSLP	Chr18:75548607-75548726	<b>129/129</b>
77	<b>D18Mit216</b>	SSLP	Chr18:83585146-83585269	<b>B6/129</b>
78	<b>D19Mit96</b>	SSLP	Chr19:21916083-21916201	<b>129/129</b>
79	<b>D19Mit88</b>	SSLP	Chr19:37331405-37331552	<b>B6/129</b>
80	<b>D19Mit90</b>	SSLP	Chr19:42295742-42295862	<b>129/129</b>
81	<b>D19Mit71</b>	SSLP	Chr19:59674330-59674465	<b>B6/129</b>
82	<b>DXMit166</b>	SSLP	ChrX:49036675-49036788	<b>129/129</b>
83	<b>DXMit210</b>	SSLP	ChrX:69741824-69741934	<b>B6/B6</b>
84	<b>DXMit130</b>	SSLP	ChrX:130298712-130298880	<b>B6/B6</b>

<sup>1</sup> Generation definitions: N\_Number of backcross generations; F\_Filial or inbreeding generations; M\_Cross-intercross breeding generations; ?: Use when the prior breeding history is not known; +\_Generation numbers before the "+" took place in the donating investigator, after the "+", at RIKEN BRC.

<sup>2</sup> based on UniSTS annotation of NCBI Build 37

### Haplotype combination:

B6/B6\_C57BL/6 homozygous allele, 129/129\_129 homozygous allele, B6/129\_heterozygous allele