

## Genetic Background Monitoring Report

No.: 100316-0409

BRC No.: RBRC002709

Strain Name (Official Nomenclature): B6.B6D2-Tg(Fucci)639Bsi

Strain Type: Mutant strain

Strain of Origin: (C57BL/6 x DBA/2)F1

Donor Strain: -

Background Strain: C57BL/6NJcl

Date: 2010/3/16

Locus	Type	ID of animals surveyed		S00160101	S00160102	S00160106
		(Generation <sup>1</sup> ) / Sex	Location <sup>2</sup>	(G4+N9) Female	(G4+N9) Female	(G4+N9) Male
1	<b>D1Mit170</b>	SSLP	Chr1:36083115-36083218	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
2	<b>D1Mit24</b>	SSLP	Chr1:74458254-74458455	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
3	<b>D1Mit387</b>	SSLP	Chr1:117229213-117229337	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
4	<b>D1Mit33</b>	SSLP	Chr1:160335734-160335833	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
5	<b>D1Mit361</b>	SSLP	Chr1:188085708-188085878	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
6	<b>D1Mit155</b>	SSLP	Chr1:196255163-196255414	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
7	<b>D2Mit293</b>	SSLP	Chr2:25273559-25273748	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
8	<b>D2Mit433</b>	SSLP	Chr2:57149522-57149694	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
9	<b>D2Mit394</b>	SSLP	Chr2:116965256-116965376	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
10	<b>D2Mit304</b>	SSLP	Chr2:128157520-128157637	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
11	<b>D2Mit456</b>	SSLP	Chr2:168761877-168761999	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
12	<b>D3Mit151</b>	SSLP	Chr3:31137265-31137413	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
13	<b>D3Mit230</b>	SSLP	Chr3:82366294-82366439	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
14	<b>D3Mit252</b>	SSLP	Chr3:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
15	<b>D3Mit147</b>	SSLP	Chr3:148408373-148408506	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
16	<b>D4Mit171</b>	SSLP	Chr4:22413431-22413736	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
17	<b>D4Mit111</b>	SSLP	Chr4:53563711-53563839	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
18	<b>D4Mit178</b>	SSLP	Chr4:66843059-66843205	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
19	<b>D4Mit308</b>	SSLP	Chr4:123838543-123838630	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
20	<b>D4Mit234</b>	SSLP	Chr4:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
21	<b>D5Mit294</b>	SSLP	Chr5:20863135-20863329	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
22	<b>D5Mit394</b>	SSLP	Chr5:54734074-54734215	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
23	<b>D5Mit398</b>	SSLP	Chr5:89700063-89700172	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
24	<b>D5Mit161</b>	SSLP	Chr5:127404260-127404378	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
25	<b>D6Mit74</b>	SSLP	Chr6:48676555-48676704	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
26	<b>D6Mit102</b>	SSLP	Chr6:93413943-93414087	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
27	<b>D6Mit254</b>	SSLP	Chr6:125306664-125306803	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
28	<b>D6Mit15</b>	SSLP	Chr6:146377508-146377760	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
29	<b>D7Mit246</b>	SSLP	Chr7:31118079-31118215	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
30	<b>D7Mit318</b>	SSLP	Chr7:81093848-81093997	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
31	<b>D7Mit66</b>	SSLP	Chr7:127029510-127029671	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
32	<b>D7Mit189</b>	SSLP	Chr7:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
33	<b>D8Mit94</b>	SSLP	Chr8:32452130-32452283	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
34	<b>D8Mit293</b>	SSLP	Chr8:37226054-37226173	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
35	<b>D8Mit81</b>	SSLP	Chr8:91727514-91727649	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
36	<b>D8Mit271</b>	SSLP	Chr8:116884022-116884117	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
37	<b>D9Mit90</b>	SSLP	Chr9:32308040-32308179	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
38	<b>D9Mit229</b>	SSLP	Chr9:49349226-49349351	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
39	<b>D9Mit50</b>	SSLP	Chr9:94341243-94341401	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
40	<b>D9Mit18</b>	SSLP	Chr9:120198563-120198742	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
41	<b>D10Mit3</b>	SSLP	Chr10:28871992-28872234	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>

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		(Generation <sup>1</sup> ) / Sex	Location <sup>2</sup>	(G4+N9) Female	(G4+N9) Female	(G4+N9) Male
42	<b>D10Mit42</b>	SSLP	Chr10:82117849-82118032	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
43	<b>D10Mit180</b>	SSLP	Chr10:117587667-117587800	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
44	<b>D11Mit20</b>	SSLP	Chr11:44552713-44552826	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
45	<b>D11Mit219</b>	SSLP	Chr11:72132472-72132603	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
46	<b>D11Mit333</b>	SSLP	Chr11:108575096-108575220	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
47	<b>D12Mit153</b>	SSLP	Chr12:35920169-35920310	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
48	<b>D12Mit34</b>	SSLP	Chr12:70900839-70901009	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
49	<b>D12Mit7</b>	SSLP	Chr12:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
50	<b>D12Mit17</b>	SSLP	Chr12:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
51	<b>D13Mit3</b>	SSLP	Chr13:20523211-20523371	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
52	<b>D13Mit250</b>	SSLP	Chr13:56424004-56424131	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
53	<b>D13Mit213</b>	SSLP	Chr13:109037352-109037500	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
54	<b>D14Mit259</b>	SSLP	Chr14:54729500-54729624	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
55	<b>D14Mit193</b>	SSLP	Chr14:71921427-71921544	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
56	<b>D14Mit266</b>	SSLP	Chr14:121431467-121431614	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
57	<b>D15Mit5</b>	SSLP	Chr15:43279930-43280030	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
58	<b>D15Mit237</b>	SSLP	Chr15:73710792-73710910	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
59	<b>D15Mit193</b>	SSLP	Chr15:97772190-97772318	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
60	<b>D16Mit131</b>	SSLP	Chr16:7319135-7319274	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
61	<b>D16Mit59</b>	SSLP	Chr16:38433970-38434154	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
62	<b>D16Mit50</b>	SSLP	Chr16:78953071-78953200	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
63	<b>D17Mit16</b>	SSLP	Chr17:33737692-33737814	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
64	<b>D17Mit218</b>	SSLP	Chr17:72217233-72217348	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
65	<b>D17Mit123</b>	SSLP	Chr17:93598959-93599091	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
66	<b>D18Mit68</b>	SSLP	Chr18:21594126-21594238	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
67	<b>D18Mit124</b>	SSLP	Chr18:57617141-57617290	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
68	<b>D18Mit184</b>	SSLP	Chr18:66978897-66979068	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
69	<b>D18Mit80</b>	SSLP	Chr18:77065228-77065337	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
70	<b>D19Mit41</b>	SSLP	Chr19:18750890-18751053	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
71	<b>D19Mit53</b>	SSLP	Chr19:45226399-45226509	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
72	<b>D19Mit33</b>	SSLP	Chr19:56270122-56270383	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
73	<b>DXMit166</b>	SSLP	ChrX:49036675-49036788	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
74	<b>DXMit143</b>	SSLP	ChrX:Syntenic	<b>B6/B6</b>	<b>B6/B6</b>	<b>B6/B6</b>
75	<b>DXMit117</b>	SSLP	ChrX:127822562-127822687	<b>B6/B6</b>	<b>B6/B6</b>	<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, D2/D2\_DBA/2 homozygous allele, B6/D2\_heterozygous allele