

Genetic Background Monitoring Report

No.: 111125-29

BRC No.: RBRC02820

Strain Name (Official Nomenclature): B6;129-Gab1<tm1Nmoc>

Strain Type: Mutant Stock

Strain of Origin: (129X1/SvJ x 129S1/Sv)F1-Kittl<+>

Donor Strain: R1 (ES cell)

Background Strain: C57BL/6N and 129 mixed

Date: 2011/11/29

Locus	Type	ID of animals surveyed (Generation ¹) / Sex Location ²	S00450202	S00450102	a-type	b-type (B6 type)
			(?+F8) Female	(?+F8) Male		
1 D1Mit212	SSLP	Chr1:40049840-40049985	b/b	b/b	C3,FVB	B6,D2,129,BALB,CBA
2 rs13475886*	SNP	Chr1:61228463	C/C	C/C		
3 D1Mit306	SSLP	Chr1:98827535-98827643	b/b	b/b	D2,129	B6,BALB,C3,CBA,FVB
4 rs13476359*	SNP	Chr2:16607458	A/A	A/A		
5 D2Mit433	SSLP	Chr2:57149522-57149694	b/b	b/b	D2,C3,129,CBA,FVB	B6,BALB
6 D3Mit333	SSLP	Chr3:44511652-44511774	b/b	b/b	C3,CBA,FVB	B6,D2,BALB,129
7 D3Mit106	SSLP	Chr3:111841219-111841382	a/a	a/a	D2,BALB,C1,129,CBA,FVB	B6
8 D4Mit149	SSLP	Chr4:3584271-3584381	a/a	a/a	D2,BALB,C3,129,CBA	B6,FVB
9 D4Mit108	SSLP	Chr4:38319122-38319254	a/a	a/a	BALB,C3,129	B6,D2,CBA,FVB
10 D5Mit148	SSLP	Chr5:32278263-32278411	a/a	a/a	BALB,C3,129,CBA,FVB	B6,D2
11 D5Mit168	SSLP	Chr5:137534245-137534394	a/b	a/b	D2,BALB,C3,129,CBA,FVB	B6
12 rs33208334*	SNP	Chr5:150428596	C/C	C/C		
13 D6Mit9	SSLP	Chr6:87375892-87376028	b/b	b/b	D2,C3,129,CBA,FVB	B6,BALB
14 D7Mit230	SSLP	Chr7:56764849-56764953	b/b	b/b	D2,C3,129,FVB	B6,BALB,CBA
15 D8Mit293	SSLP	Chr8:37226054-37226173	a/a	a/a	D2,BALB,C3,129,CBA,FVB	B6
16 D9Mit191	SSLP	Chr9:46494456-46494601	b/b	b/b	D2,BALB,C3,CBA,FVB	B6,129
17 D10Mit282	SSLP	Chr10:20654078-20654202	a/a	a/a	BALB,129,FVB	B6,D2,C3,CBA
18 D11Mit219	SSLP	Chr11:72132472-72132603	b/b	b/b	D2,129	B6,BALB,C3,CBA,FVB
19 D12Mit190	SSLP	Chr12:60829453-60829579	b/b	b/b	D2,FVB	B6,BALB,C3,129,CBA
20 D13Mit179	SSLP	Chr13:44860362-44860453	a/a	a/a	BALB,C3,129,CBA,FVB	B6,D2
21 D14Mit50	SSLP	Chr14:21831604-21831793	b/b	b/b	D2,BALB,129,CBA,FVB	B6,C3
22 D15Mit138	SSLP	Chr15:39861164-39861310	-	-	C3	B6,D2,BALB,129,CBA,FVB
23 D16Mit50	SSLP	Chr16:78953071-78953200	b/b	b/b	D2,129,CBA,FVB	B6,BALB,C3
24 D17Mit152	SSLP	Chr17:65689824-65689949	b/b	b/b	D2,BALB,FVB	B6,C3,129,CBA
25 D18Mit68	SSLP	Chr18:21594126-21594238	b/b	b/b	D2,BALB,CBA,FVB	B6,C3,129
26 D19Mit16	SSLP	Chr19:20420342-20420474	b/b	b/b	D2,C3,CBA	B6,BALB,FVB
27 DXMit117	SSLP	Chr X:127822562-127822687	b/b	b/b	D2,129,FVB	B6,BALB,C3,CBA

¹ 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.

² 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

***SNP for distinguishing among C57BL/6 substrains**

rs13475886: T_C57BL/6J, C57BL/6JJcl, C57BL/6JJms type allele, C_other C57BL/6 substrain type allele

rs13476359: G_C57BL/6J, A_other C57BL/6 substrains type allele

rs33208334: T_C57BL/6J, C57BL/6JJcl type allele, C_other C57BL/6 substrains type allele