

Genetic Background Monitoring Report

No.: 101005-12

BRC No.: RBRC04504

Strain Name (Official Nomenclature): B6.129P2(D2)-Smad7<tm1.1Tojo>

Strain Type: Mutant strain

Strain of Origin: 129P2/OlaHsd

Donor Strain: E14 (ES cell)

Background Strain: C57BL/6JJcl

Date: 2010/10/5

Locus	Type	ID of animals surveyed		D00000101	D00000102
		(Generation ¹) / Sex		(N9+N0)	(N10+N0)
		Location ²		Male	Male
1	D1Mit3	SSLP	Chr1:19802051-19802209	-	-
2	D1Mit322	SSLP	Chr1:Syntenic	B6/B6	B6/B6
3	D1Mit19	SSLP	Chr1:73734337-73734492	B6/B6	B6/B6
4	D1Mit306	SSLP	Chr1:98827535-98827643	B6/B6	B6/B6
5	D1Mit501	SSLP	Chr1:154473511-154473632	B6/B6	B6/B6
6	D1Mit150	SSLP	Chr1:176558864-176559001	B6/B6	B6/B6
7	D2Mit431	SSLP	Chr2:27277814-27277911	-	-
8	D2Mit9	SSLP	Chr2:65277459-65277647	-	-
9	D2Mit206	SSLP	Chr2:106750096-106750239	-	-
10	D2Mit493	SSLP	Chr2:153798642-153798751	B6/B6	B6/B6
11	D2Mit456	SSLP	Chr2:168761877-168761999	B6/B6	B6/B6
12	D2Mit148	SSLP	Chr2:178535250-178535364	B6/B6	B6/B6
13	D3Mit151	SSLP	Chr3:31137265-31137413	B6/B6	B6/B6
14	D3Mit278	SSLP	Chr3:71816030-71816141	B6/B6	B6/B6
15	D3Mit318	SSLP	Chr3:123334565-123334712	-	-
16	D3Mit293	SSLP	Chr3:148932688-148932790	B6/B6	B6/B6
17	D4Mit149	SSLP	Chr4:3584271-3584381	B6/B6	B6/B6
18	D4Mit2	SSLP	Chr4:25610387-25610576	-	-
19	D4Mit17	SSLP	Chr4:63026328-63026475	B6/B6	B6/B6
20	D4Mit178	SSLP	Chr4:66843059-66843205	B6/B6	B6/B6
21	D4Mit308	SSLP	Chr4:123838543-123838630	B6/B6	B6/B6
22	D4Mit254	SSLP	Chr4:153093974-153094108	-	-
23	D5Mit48	SSLP	Chr5:8797672-8797875	-	-
24	D5Mit267	SSLP	Chr5:Syntenic	B6/B6	B6/B6
25	D5Mit398	SSLP	Chr5:89700063-89700172	B6/B6	B6/B6
26	D5Mit95	SSLP	Chr5:125309605-125309718	B6/B6	B6/B6
27	D5Mit320	SSLP	Chr5:127286127-127286250	B6/B6	B6/B6
28	D5Mit374	SSLP	Chr5:139608988-139609104	B6/B6	B6/B6
29	D6Mit316	SSLP	Chr6:55505943-55506037	B6/129	B6/B6
30	D6Mit9	SSLP	Chr6:87375892-87376028	B6/B6	B6/B6
31	D6Mit102	SSLP	Chr6:93413943-93414087	B6/B6	B6/B6
32	D6Mit55	SSLP	Chr6:114232092-114232201	B6/B6	B6/B6
33	D6Mit339	SSLP	Chr6:136372097-136372213	B6/B6	B6/B6
34	D7Mit246	SSLP	Chr7:31118079-31118215	B6/B6	B6/B6
35	D7Mit81	SSLP	Chr7:52767912-52768056	B6/B6	B6/B6
36	D7Mit238	SSLP	Chr7:126237672-126237821	B6/B6	B6/B6
37	D7Mit189	SSLP	Chr7:Syntenic	B6/B6	B6/B6

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Locus	Type	ID of animals surveyed		D00000101	D00000102
		(Generation ¹) / Sex		(N9+N0)	(N10+N0)
		Location ²		Male	Male
38	D8Mit293	SSLP	Chr8:37226054-37226173	B6/B6	B6/B6
39	D8Mit81	SSLP	Chr8:91727514-91727649	B6/B6	B6/B6
40	D8Mit14	SSLP	Chr8:Syntenic	-	-
41	D9Mit328	SSLP	Chr9:41695932-41696113	B6/B6	B6/B6
42	D9Mit269	SSLP	Chr9:87838840-87839011	B6/B6	B6/B6
43	D9Mit214	SSLP	Chr9:115307830-115307967	B6/B6	B6/B6
44	D10Mit282	SSLP	Chr10:20654078-20654202	-	-
45	D10Mit223	SSLP	Chr10:67674940-67675089	B6/B6	B6/B6
46	D10Mit11	SSLP	Chr10:91885360-91885556	B6/B6	B6/B6
47	D10Mit180	SSLP	Chr10:117587667-117587800	B6/B6	B6/B6
48	D11Mit236	SSLP	Chr11:45088548-45088651	B6/B6	B6/B6
49	D11Mit260	SSLP	Chr11:61609496-61609590	B6/B6	B6/B6
50	D11Mit219	SSLP	Chr11:72132472-72132603	B6/B6	B6/B6
51	D11Mit333	SSLP	Chr11:108575096-108575220	B6/B6	B6/B6
52	D12Mit153	SSLP	Chr12:35920169-35920310	B6/B6	B6/B6
53	D12Mit34	SSLP	Chr12:70900839-70901009	B6/B6	B6/B6
54	D12Mit102	SSLP	Chr12:105536654-105536786	-	-
55	D12Mit7	SSLP	Chr12:Syntenic	B6/B6	B6/B6
56	D13Mit117	SSLP	Chr13:37654832-37654949	-	-
57	D13Mit179	SSLP	Chr13:44860362-44860453	-	-
58	D13Mit147	SSLP	Chr13:98359080-98359187	B6/B6	B6/B6
59	D13Mit35	SSLP	Chr13:120128451-120128643	B6/B6	B6/B6
60	D14Mit259	SSLP	Chr14:54729500-54729624	B6/B6	B6/B6
61	D14Mit193	SSLP	Chr14:71921427-71921544	B6/B6	B6/B6
62	D14Mit165	SSLP	Chr14:106982674-106982807	B6/B6	B6/B6
63	D15Mit136	SSLP	Chr15:30776615-30776757	-	-
64	D15Mit5	SSLP	Chr15:43279930-43280030	B6/B6	B6/B6
65	D15Mit29	SSLP	Chr15:74075586-74075734	B6/B6	B6/B6
66	D15Mit33	SSLP	Chr15:83586169-83586316	B6/B6	B6/B6
67	D16Mit131	SSLP	Chr16:7319135-7319274	B6/B6	B6/B6
68	D16Mit59	SSLP	Chr16:38433970-38434154	B6/B6	B6/B6
69	D16Mit50	SSLP	Chr16:78953071-78953200	B6/B6	B6/B6
70	D16Mit106	SSLP	Chr16:98051757-98051902	B6/B6	B6/B6
71	D17Mit213	SSLP	Chr17:16752157-16752280	B6/B6	B6/B6
72	D17Mit108	SSLP	Chr17:49744546-49744658	-	-
73	D17Mit187	SSLP	Chr17:79631462-79631708	B6/B6	B6/B6
74	D18Mit177	SSLP	Chr18:41142161-41142331	B6/B6	B6/B6

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		Location ²		Male	Male
75	D18Mit184	SSLP	Chr18:66978897-66979068	B6/129	B6/129
76	D18Mit142	SSLP	Chr18:75548607-75548726	B6/B6	B6/B6
77	D18Mit216	SSLP	Chr18:83585146-83585269	B6/129	B6/129
78	D19Mit96	SSLP	Chr19:21916083-21916201	B6/B6	B6/B6
79	D19Mit88	SSLP	Chr19:37331405-37331552	-	-
80	D19Mit90	SSLP	Chr19:42295742-42295862	B6/B6	B6/B6
81	D19Mit71	SSLP	Chr19:59674330-59674465	-	-
82	DXMit166	SSLP	ChrX:49036675-49036788	B6/B6	B6/B6
83	DXMit210	SSLP	ChrX:69741824-69741934	B6/B6	B6/B6
84	DXMit130	SSLP	ChrX:130298712-130298880	B6/B6	B6/B6

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