

**Table 2.** The frequency of colony formation in high concentrations of G418

Clone ID	GSS accession no.	2 mg/ml G418 only	2 mg/ml G418 0.5 mM MNU	2 mg/ml G418 0.25 mM HU	2 mg/ml G418 25 mM EtBrd	Chromosome location	Gene disrupted and gene ID or MGI
b3p3-d8	CZ169573	$2.53 \times 10^{-5}$	$3.63 \times 10^{-3**}$ (+123-fold)	$1.73 \times 10^{-3**}$ (+68-fold)	$3.17 \times 10^{-5}$	1C2	ND
b3p3-d4	CZ169572	$3.20 \times 10^{-5}$	$1.36 \times 10^{-3**}$ (+43-fold)	$9.02 \times 10^{-4*}$ (+28-fold)	$3.15 \times 10^{-5}$	1C3	LOC227288 (2448715)
b3p4-d12	CZ169762	$4.05 \times 10^{-5}$	$3.32 \times 10^{-3**}$ (+82-fold)	$2.06 \times 10^{-3*}$ (+51-fold)	$2.70 \times 10^{-5}$	1C3	(MGI:104517)
b3p4-g3	CZ169810	$4.28 \times 10^{-5}$	$3.48 \times 10^{-3**}$ (+81-fold)	$1.45 \times 10^{-3*}$ (+34-fold)	$3.75 \times 10^{-5}$	1C3	Xrcc5 (MGI:104517)
b2p1-f12	CZ169705	$1.09 \times 10^{-4}$	$8.44 \times 10^{-3**}$ (+77-fold)	$2.72 \times 10^{-3*}$ (+25-fold)	$1.01 \times 10^{-4}$	1H5	Bnpt1 (MGI:1338800)
b2p1-h5	CZ169717	$1.01 \times 10^{-4}$	$7.59 \times 10^{-3**}$ (+75-fold)	$4.21 \times 10^{-3*}$ (+42-fold)	$1.29 \times 10^{-4}$	1H5	ND
b3p4-g9	CZ169804	$4.91 \times 10^{-5}$	$3.17 \times 10^{-3**}$ (+65-fold)	$1.59 \times 10^{-3*}$ (+32-fold)	$4.10 \times 10^{-5}$	2C2	Grb14 (Mm.33806)
b3p4-e1	CZ169763	$9.59 \times 10^{-5}$	$6.22 \times 10^{-3**}$ (+65-fold)	$3.03 \times 10^{-3*}$ (+32-fold)	$8.85 \times 10^{-5}$	2G3	KIF3B (MGI:107688)
b2p1-a9	CZ169685	$8.53 \times 10^{-5}$	$4.49 \times 10^{-3**}$ (+53-fold)	$3.05 \times 10^{-3*}$ (+36-fold)	$9.22 \times 10^{-5}$	2H1	Cdk5rap1 (MGI:1914221)
b3p4-b12	CZ169783	$9.59 \times 10^{-5}$	$4.98 \times 10^{-3**}$ (+52-fold)	$2.28 \times 10^{-3*}$ (+24-fold)	$8.60 \times 10^{-5}$	3A1	ND
b3p4-b1	CZ169784	$3.73 \times 10^{-5}$	$1.68 \times 10^{-3**}$ (+45-fold)	$1.64 \times 10^{-3*}$ (+44-fold)	$4.40 \times 10^{-5}$	3A2	S12207 hypothetical protein
b3p4-a5	CZ169854	$1.74 \times 10^{-5}$	$8.13 \times 10^{-4*}$ (+47-fold)	$6.19 \times 10^{-4*}$ (+36-fold)	$2.51 \times 10^{-5}$	3B	ND
b3p3-b6	CZ169662	$5.00 \times 10^{-5}$	$3.00 \times 10^{-3**}$ (+60-fold)	$9.18 \times 10^{-4*}$ (+18-fold)	$4.69 \times 10^{-5}$	3F1	ND
b2p1-f10	CZ169711	$5.87 \times 10^{-5}$	$5.37 \times 10^{-3**}$ (+91-fold)	$1.94 \times 10^{-3*}$ (+33-fold)	$7.23 \times 10^{-5}$	3F2.1	Prune (MGI:1925152)
b3p4-a1	CZ169780	$6.67 \times 10^{-5}$	$4.60 \times 10^{-3**}$ (+69-fold)	$1.66 \times 10^{-3*}$ (+25-fold)	$5.95 \times 10^{-5}$	4A4	1810030N24Rik (MGI:1913541)
b3p3-a4	CZ169660	$5.20 \times 10^{-5}$	$4.05 \times 10^{-3**}$ (+78-fold)	$1.73 \times 10^{-3*}$ (+33-fold)	$7.30 \times 10^{-5}$	4A5	(Mm.96573)

b3p3-a9	CZ169623	$5.37 \times 10^{-5}$	$2.65 \times 10^{-3**}$ (+49-fold)	$9.70 \times 10^{-4*}$ (+18-fold)	$5.48 \times 10^{-5}$	4A5	(MGI:3045357)
b2p1-b9	CZ169682	$4.07 \times 10^{-5}$	$2.41 \times 10^{-3**}$ (+59-fold)	$1.55 \times 10^{-3*}$ (+38-fold)	$5.11 \times 10^{-5}$	4B1	Spink4 (MGI:1341848)
b3p4-b8	CZ169787	$6.60 \times 10^{-5}$	$4.18 \times 10^{-3**}$ (+63-fold)	$1.80 \times 10^{-3*}$ (+27-fold)	$5.60 \times 10^{-5}$	4C6	ND
b2p1-d8	CZ170502	$8.48 \times 10^{-5}$	$4.42 \times 10^{-3**}$ (+52-fold)	$3.43 \times 10^{-3*}$ (+40-fold)	$1.19 \times 10^{-4}$	4D2.3	Smpdl3b (MGI:1916022)
b2p1-e3	CZ169699	$6.97 \times 10^{-5}$	$3.74 \times 10^{-3**}$ (+54-fold)	$2.25 \times 10^{-3*}$ (+32-fold)	$6.56 \times 10^{-5}$	4D2.3	4930555I21Rik (MGI:1926056)
b3p3-g10	CZ169605	$1.22 \times 10^{-4}$	$7.08 \times 10^{-3**}$ (+58-fold)	$2.86 \times 10^{-3*}$ (+24-fold)	$2.15 \times 10^{-4}$	4E1	ND
b3p4-f2	CZ169770	$9.20 \times 10^{-5}$	$5.04 \times 10^{-3**}$ (+55-fold)	$3.31 \times 10^{-3*}$ (+36-fold)	$1.57 \times 10^{-4}$	4E1	Mad212 (MGI:1919140)
b3p3-d9	CZ169663	$9.84 \times 10^{-5}$	$8.77 \times 10^{-3**}$ (+89-fold)	$2.21 \times 10^{-3*}$ (+22-fold)	$9.73 \times 10^{-5}$	4E2	D4Cole1e gene
b3p3-h4	CZ169643	$3.71 \times 10^{-5}$	$2.53 \times 10^{-3**}$ (+70-fold)	$1.84 \times 10^{-3**}$ (+50-fold)	$4.62 \times 10^{-5}$	5E2	D430040L24Rik (MGI:2444469)
b3p3-c12	CZ169567	$8.97 \times 10^{-5}$	$2.60 \times 10^{-3*}$ (+29-fold)	$1.76 \times 10^{-3*}$ (+20-fold)	$5.19 \times 10^{-5}$	5G2	D130017N08Rik (MGI:2443273)
b2p1-h8	CZ169725	$3.84 \times 10^{-5}$	$2.60 \times 10^{-3**}$ (+68-fold)	$1.61 \times 10^{-3**}$ (+42-fold)	$6.40 \times 10^{-5}$	6A3.3	Atp6v1f (MGI:1913394)
b2p1-h1	CZ169726	$2.52 \times 10^{-5}$	$1.59 \times 10^{-3**}$ (+63-fold)	$5.32 \times 10^{-4*}$ (+21-fold)	$8.33 \times 10^{-5}$	7A2	Ech1 (MGI:1858208)
b3p4-f6	CZ169773	$9.33 \times 10^{-5}$	$4.46 \times 10^{-3**}$ (+48-fold)	$2.41 \times 10^{-3*}$ (+26-fold)	$7.34 \times 10^{-5}$	7E3	1600010M07 Rik (MGI:1917031)
b2p1-d9	CZ169702	$7.25 \times 10^{-5}$	$5.46 \times 10^{-3**}$ (+75-fold)	$2.76 \times 10^{-3*}$ (+38-fold)	$8.25 \times 10^{-5}$	7E3	1600010M07Rik (MGI:1917031)
b3p4-h11	CZ169856	$2.00 \times 10^{-5}$	$1.30 \times 10^{-3**}$ (+65-fold)	$6.64 \times 10^{-4*}$ (+33-fold)	$1.96 \times 10^{-5}$	8A1.1	4933439N14Rik (Mm.160052)
b3p4-f10	CZ169812	$4.64 \times 10^{-5}$	$3.78 \times 10^{-3**}$ (+81-fold)	$1.65 \times 10^{-3*}$ (+36-fold)	$1.81 \times 10^{-5}$	8A4	ND

b3p4-c2	CZ169794	$9.34 \times 10^{-5}$	$7.13 \times 10^{-3**}$ (+76-fold)	$4.67 \times 10^{-3**}$ (+50-fold)	$7.31 \times 10^{-5}$	8C3	(Mm.24524)
b2p1-d10	CZ169712	$2.14 \times 10^{-5}$	$1.62 \times 10^{-3**}$ (+76-fold)	$3.98 \times 10^{-4*}$ (+19-fold)	$3.87 \times 10^{-5}$	9A1	Nr1b1 (MGI:97856)
b2p1-b4	CZ169688	$7.26 \times 10^{-5}$	$3.84 \times 10^{-3**}$ (+53-fold)	$2.35 \times 10^{-3*}$ (+32-fold)	$9.06 \times 10^{-5}$	9E1	Dppa5 (MGI:101800)
b3p4-g8	CZ169802	$5.71 \times 10^{-5}$	$3.70 \times 10^{-3**}$ (+75-fold)	$1.93 \times 10^{-3*}$ (+34-fold)	$1.00 \times 10^{-4}$	10C1	Rfx4 (MGI:1918387)
b3p3-g6	CZ169601	$5.78 \times 10^{-5}$	$3.42 \times 10^{-3**}$ (+59-fold)	$1.68 \times 10^{-3*}$ (+29-fold)	$2.86 \times 10^{-5}$	10C2	Cradd (MGI:1336168)
b3p4-b2	CZ169785	$6.53 \times 10^{-5}$	$3.54 \times 10^{-3**}$ (+54-fold)	$2.60 \times 10^{-3*}$ (+40-fold)	$7.70 \times 10^{-5}$	11B1.3	2010001A14Rik (MGI:1923766)
b3p4-e7	CZ170247	$4.33 \times 10^{-5}$	$1.86 \times 10^{-3**}$ (+43-fold)	$1.89 \times 10^{-3*}$ (+44-fold)	$3.40 \times 10^{-5}$	12C1	Mipol1 (MGI:1920740)
b2p1-a5	CZ169683	$6.62 \times 10^{-5}$	$4.06 \times 10^{-3**}$ (+61-fold)	$3.24 \times 10^{-3*}$ (+35-fold)	$6.27 \times 10^{-5}$	12C3	Galnt1 (MGI:1917754)
b3p3-c8	CZ169557	$4.72 \times 10^{-5}$	$3.45 \times 10^{-3**}$ (+73-fold)	$1.50 \times 10^{-3*}$ (+32-fold)	$6.36 \times 10^{-5}$	14A3	Hesx1 gene (MGI:96071)
b3p4-d10	CZ169761	$1.08 \times 10^{-4}$	$9.49 \times 10^{-3**}$ (+88-fold)	$5.83 \times 10^{-3**}$ (+54-fold)	$1.08 \times 10^{-4}$	14E5	Phgdh1 (MGI:1916139)
b3p4-e3	CZ169766	$6.85 \times 10^{-5}$	$4.97 \times 10^{-3**}$ (+73-fold)	$2.78 \times 10^{-3*}$ (+41-fold)	$7.87 \times 10^{-5}$	15D3	ND
b3p4-c9	CZ169841	$1.10 \times 10^{-4}$	$3.54 \times 10^{-3*}$ (+39-fold)	$2.23 \times 10^{-3*}$ (+20-fold)	$1.07 \times 10^{-4}$	15F2	ND
b3p4-c1	CZ169790	$4.29 \times 10^{-5}$	$2.94 \times 10^{-3**}$ (+69-fold)	$2.14 \times 10^{-3**}$ (+50-fold)	$5.75 \times 10^{-5}$	17B3	LOC433110 (Mm.45676)
b2p1-f3	CZ169708	$7.00 \times 10^{-5}$	$3.57 \times 10^{-3**}$ (+51-fold)	$3.30 \times 10^{-3**}$ (+47-fold)	$8.80 \times 10^{-5}$	17E1.3	Dlgap1 (MGI:1346065)
b3p4-c12	CZ169852	$8.20 \times 10^{-5}$	$6.05 \times 10^{-3**}$ (+74-fold)	$2.69 \times 10^{-3*}$ (+33-fold)	$8.89 \times 10^{-5}$	17E2	ND
b3p1-h1	CZ169622	$8.02 \times 10^{-5}$	$4.44 \times 10^{-3**}$ (+55-fold)	$3.36 \times 10^{-3*}$ (+42-fold)	$3.17 \times 10^{-5}$	18E2	4933427L07Rik (MGI:1918480)
b3p3-h8	CZ169641	$1.31 \times 10^{-5}$	$1.37 \times 10^{-3**}$ (+105-fold)	$4.08 \times 10^{-4*}$ (+37-fold)	$2.05 \times 10^{-5}$	19A	RBM4 (MGI:1100865)

b2p1-c6	CZ169692	1.98 x 10 <sup>-5</sup>	7.72 x 10 <sup>-4*</sup> (+39-fold)	4.34 x 10 <sup>-4*</sup> (+22-fold)	1.18 x 10 <sup>-5</sup>	19A	ND
b2p1-e10	CZ169707	6.11 x 10 <sup>-5</sup>	3.28 x 10 <sup>-3**</sup> (+54-fold)	1.52 x 10 <sup>-3*</sup> (+25-fold)	1.08 x 10 <sup>-4</sup>	19C1	ND
b2p1-d3	CZ169695	4.23 x 10 <sup>-5</sup>	1.73 x 10 <sup>-3**</sup> (+41-fold)	1.20 x 10 <sup>-3*</sup> (+28-fold)	6.50 x 10 <sup>-5</sup>	19C1	ND
b3p3-h2	CZ170481	6.02 x 10 <sup>-5</sup>	4.40 x 10 <sup>-3**</sup> (+73-fold)	1.54 x 10 <sup>-3*</sup> (+26-fold)	7.04 x 10 <sup>-5</sup>	19C1	AW210596 (MGI:2147716)

\* P<0.05

\*\*P<0.01

ND=no data.

The frequency of colony formation is listed for all 53 clones examined. Frequency was determined by dividing the number of colonies surviving 2.0 mg/ml G418 selection by the number surviving parallel experiments with 0.3 mg/ml G418 selection and is the average of at least three independent experiments for each clone. Standard deviations, which ranged from 5% to 70% of the mean values, have been omitted for clarity. Student's T test was used to determine statistical significance of differences between treated and the "2.0 mg/ml G418 only" condition; \*P< 0.05, \*\*P<0.01. Genes disrupted by gene entrapment in each clone are indicated when known. The sequences of fusion transcripts coned by 3' RACE have been submitted to the GenBank GSS database, and the accession number of each sequence is listed. The chromosomal location of each entrapment vector was determined from BlastN matches between fusion transcripts and mouse genome sequences.