

Supplemental Table S1. Clone numbers

Pool	Radiation (Gy)	Dilution	Flasks ^a	Colonies ^b	Revertants		
					Mean ^c	% ^d	RH clones ^e
1	30	1:5	5	545	95	17	450
	30	1:10	10	1045	260	25	785
	100	1:5	5	536	135	25	401
	100	1:10	10	770	210	27	560
Totals ^f , Mean ^g				2896	700	24	2196
2	30	1:5	5	843	145	17	698
	30	1:10	10	2043	380	19	1663
	100	1:5	5	615	160	26	455
	100	1:10	10	1361	252	19	1109
Totals ^f , Mean ^g				4861	937	19	3924
3	30	1:5	5	328	90	28	238
	30	1:10	10	1028	240	23	788
	100	1:5	5	263	80	31	183
	100	1:10	10	723	190	26	533
Totals ^f , Mean ^g				2340	600	26	1740
4	30	1:5	5	349	115	33	234
	30	1:10	10	665	210	32	455
	100	1:5	5	255	70	28	185
	100	1:10	10	470	120	26	350
Totals ^f , Mean ^g				1739	515	30	1224
5	30	1:5	5	680	185	27	495
	30	1:10	10	1510	420	28	1090
	100	1:5	5	499	160	32	339
	100	1:10	10	1423	380	27	1043
Totals ^f , Mean ^g				4111	1145	28	2966

^a Number of flasks for each radiation dose and dilution.

^b Total number of colonies estimated from counts of four 75 cm² flasks. Combined s.e.m. using all pools, radiation doses and dilutions was 118 colonies. A mixed model employing pool as a random intercept, showed that between pool variance accounted for 82% of the total variance components (intraclass correlation coefficient, ICC = 0.82) and within pool variance, 18%.

^c Total number of revertants. Estimated from counts of one flask obtained from mock fusion with no donor cells. Combined s.e.m. was 30 revertants. Pool ICC = 0.86, within pool variance = 14%.

^d Mean revertant percentage for each radiation dose and dilution. Combined s.e.m. was 2%.

^e Total number of RH clones, calculated using number of colonies minus the number of revertants. Combined s.e.m. was 91 RH clones. Pool ICC = 0.69, within pool variance = 31%.

^f Total numbers of colonies, revertants and RH clones in each pool.

^g Mean percent revertants for each RH pool.

^h Means \pm s.e.m. derived from the six RH pools.

continued ...

Supplemental Table S1. Clone numbers ... continued

Pool	Radiation (Gy)	Dilution	Flasks ^a	Colonies ^b	Revertants		
					Mean ^c	% ^d	RH clones ^e
6	30	1:5	5	628	180	29	448
	30	1:10	10	2063	640	31	1423
	100	1:5	5	499	310	62	189
	100	1:10	10	2158	540	25	1618
Totals ^f , Mean ^g				5346	1670	31	3676
Grand means ^h				3549 ± 590	928 ± 176	26 ± 2	2621 ± 441

^a Number of flasks for each radiation dose and dilution.

^b Total number of colonies estimated from counts of four 75 cm² flasks. Combined s.e.m. using all pools, radiation doses and dilutions was 118 colonies. A mixed model employing pool as a random intercept, showed that between pool variance accounted for 82% of the total variance components (intraclass correlation coefficient, ICC = 0.82) and within pool variance, 18%.

^c Total number of revertants. Estimated from counts of one flask obtained from mock fusion with no donor cells. Combined s.e.m. was 30 revertants. Pool ICC = 0.86, within pool variance = 14%.

^d Mean revertant percentage for each radiation dose and dilution. Combined s.e.m. was 2%.

^e Total number of RH clones, calculated using number of colonies minus the number of revertants. Combined s.e.m. was 91 RH clones. Pool ICC = 0.69, within pool variance = 31%.

^f Total numbers of colonies, revertants and RH clones in each pool.

^g Mean percent revertants for each RH pool.

^h Means ± s.e.m. derived from the six RH pools.