

Table 1. Benzo[*a*]pyrene-induced 6-TG^R in wild-type, *Xpa*^{-/-}, *Polk*^{+/+}, and *Polk*^{-/-} ES cells

Cell type	B[<i>a</i>]P, μM	Total cells, 10 ⁶	6-TG ^R colonies	MF, [*] 10 ⁻⁶	Average, [†] 10 ⁻⁶
Wild type (TT2)	0	2.00	0	< 0.499	ND
	0.5	2.60	0	< 0.385	ND
	5	1.06	3	2.83	6.7 ± 6.3
	10	6.41	83	13.0	15.0 ± 0.8
<i>Polk</i> ^{+/−} (no. 48)	0	1.56	0	< 0.641	ND
	0.5	1.57	0	< 0.638	ND
	5	1.17	2	1.71	1.5 ± 2.1
	10	1.10	11	10.0	12.7 ± 4.7
<i>Polk</i> ^{-/-} (A71)	0	2.23	0	< 0.449	ND
	0.5	1.24	4	3.24	6.2 ± 4.9
	5	1.99	9	4.52	7.7 ± 3.9
	10	0.94	160	170	232 ± 123
<i>Polk</i> ^{-/-} (A72)	0	1.31	0	< 0.765	ND
	0.5	1.16	3	2.60	2.9 ± 1.0
	5	1.19	12	10.1	10.8 ± 2.3
	10	0.68	65	95.6	123 ± 69
Wild type (F1/1)	0	1.86	1	0.538	0.33 ± 0.47
	0.5	1.73	0	< 0.577	ND
	5	1.20	1	0.831	1.8 ± 2.5
	10	1.09	13	11.9	14.7 ± 5.8
<i>Xpa</i> ^{-/-} (176-20)	0	1.16	7	6.06	6.9 ± 2.5
	0.5	0.71	95	133	132 ± 42
	5	0.82	141	172	182 ± 109
	10	0.57	120	209	211 ± 74

ND, not determined.

*MF, mutant frequency; the number of 6-TG^R colonies was divided by the number of cells plated (sum of three experiments).

[†]Average mutant frequency; the average and standard error was calculated from three independent experiments.