Supporting information for Sobol et al. (April 30, 2002) Proc. Natl. Acad. Sci. USA, 10.1073/pnas.092662499.

Mutation type	Spontaneous			MMS			
	No.	%	Mutation frequency, ×10 ⁻⁵	No.	%	Mutation frequency, $\times 10^{-5}$	Fold MMS-induced change
Wild type							
G:C to A:T	39	30	4.2	46	29.1	3.2	_
A:T to G:C	24	18.4	2.6	12	7.6	0.8	_
G:C to T:A	23	17.7	2.5	45	28.5	3.1	1.2
G:C to C:G	17	13	1.8	18	11.4	1.2	_
A:T to T:A	9	6.9	1.0	22	13.9	1.5	1.6
A:T to C:G	18	13.8	1.9	15	9.5	1.1	_
Total	130			158			
ß-pol null							
G:C to A:T	24	24.5	5.6	29	19.6	10.4	1.9
A:T to G:C	8	7.8	1.8	20	13.5	7.2	4
G:C to T:A	21	20.6	4.7	39	26.4	14	3
G:C to C:G	24	23.5	5.4	24	16.2	8.6	1.6
A:T to T:A	10	9.8	2.3	21	14.2	7.5	3.3
A:T to C:G	15	14.7	3.4	15	10.1	5.4	3.3
Total	102			148			

Table 3. Methylation-induced mutation spectra at the λ *cII* locus in wild-type or β -pol null MEFs

The mutant frequencies used in the calculation of MMS-induced mutation frequencies were 1.1×10^{-4} and 5.3×10^{-4} for wild-type and β -pol null cells, respectively. These values are graphically represented in Fig. 2. Mutation frequencies were calculated by multiplying the fraction of each class of mutations observed by the average spontaneous mutant frequency. For example, the frequency of spontaneous G:C to C:G mutations in wild-type cells was calculated as follows: $(0.13)(1.4 \times 10^{-4}) = 1.8 \times 10^{-5}$. Fold change is calculated by dividing the mutation frequency of a given type mutation on MMS-treated cells by the frequency of the same type of mutation in control cells