TABLE 9 HPRT- segregation rates in prototype pseudohexaploid cell lines

Genetic constitution:  Segregant phenotype:	hpr	t <sup>A</sup> g6pd+	hprt <sup>A</sup>	g6pd+
	$hprt^{B}$ $g6pd^{T}$		hprtB g6pdT	
	hprt HPRT- G6PD-	g6pd <sup>T</sup> HPRT- G6PD+	HPRT- G6PD-	HPRT- G6PD+
No. of cultures†	24		24	
No. cell challenged/sample	$9.6{ imes}10^{3}$		1.6×10 <sup>4</sup>	
Median No. segregants/sample	89.5		27	20.5
Mean No. segregants/sample	123	0.08	<b>4</b> 2.1	44.7
Variance	9948	0.07‡	1587	4966
Average frequency of segregants	$129 \times 10^{-4}$	$0.09 \times 10^{-4}$	$26.1 \times 10^{-4}$	$27.8 \times 10^{-4}$
Segregation rate by				
median method	$21.9 \times 10^{-4}$	_	5.0 <b>×10</b> −4	$4.1 \times 10^{-4}$
Segregation rate by Luria-				
Delbruck (1943), eq. (8)	$20.3 \times 10^{-4}$	$0.09 \times 10^{-4}$	4.8×10-4	$5.1 \times 10^{-4}$

<sup>\*</sup> HPRT- segregants were selected in 0.07 mm 6-thioguanine.
† Each culture contained 1.2 times the number of cells per sample.
‡ This value is not corrected for sampling variance since the small number of colonies detected (2) does not allow distinction between sampling variance and variance due to chance distribution of mutations.