

TABLE 3

Cosegregation of G6PD and HPRT in hybrid cell line 51YT211

Genetic constitution:	$\frac{hpri^+ g6pd^+}{hpri^B g6pd^T}$								
	Experiment 1			Experiment 2			Experiment 3		
Segregant phenotype:	HPRT ⁻ G6PD ⁻	HPRT ⁻ G6PD ⁺	HPRT ⁻ G6PD ⁻	HPRT ⁻ G6PD ⁺	HPRT ⁺ G6PD ⁻	HPRT ⁻ G6PD ⁻	HPRT ⁻ G6PD ⁺	HPRT ⁺ G6PD ⁻	
No. of cultures*	20		23			24			
No. of cells/sample	5 × 10 ⁴		1.47 × 10 ⁴			1.76 × 10 ⁴			
Median No. segregants/sample	59	—	36	—	—	48	3	—	
Mean No. segregants/sample	72.4	0.2	64	5.70	1.08	95.4	7.33	2	
Variance	2617	0.128†	3599	246	0.99	14300	88.1	38.3	
Overall frequency of segregants	145 × 10 ⁻⁵	0.4 × 10 ⁻⁵	435 × 10 ⁻⁵	38.8 × 10 ⁻⁵	6.1 × 10 ⁻⁵	103 × 10 ⁻⁴	7.9 × 10 ⁻⁴	2.2 × 10 ⁻⁴	
Segregation rate by median method	29.9 × 10 ⁻⁵	—	69.1 × 10 ⁻⁵	—	—	137 × 10 ⁻⁵	18.4 × 10 ⁻⁵	—	
Segregation rate by LURIA-DELBRUCK (1943), eq. (8)	23.5 × 10 ⁻⁵	0.25 × 10 ⁻⁵	57.6 × 10 ⁻⁵	7.1 × 10 ⁻⁵	1.5 × 10 ⁻⁵	129 × 10 ⁻⁵	13.8 × 10 ⁻⁵	4.6 × 10 ⁻⁵	

* For experiment 1, each culture contained 10⁵ cells. For experiment 2, each culture contained 1.47 × 10⁵ cells. For experiment 3, each culture contained 9.27 × 10⁴ cells.

† This value is not corrected for sampling variance since the small number of colonies detected (4) does not allow distinction between sampling variance and variance due to chance distribution of mutations.