

Table S2. Recombination Frequencies of the VPT Cassette Series in Nuclease Knockout Strains

This table reports the insertion frequencies of all seven VPT cassettes in the tested strains (EcNR2, nuc4⁻, and EcNR2.*xseA*⁻). Insertion frequencies were measured as the number of kanamycin resistant recombinants over the total number of cfu (as plated on non-selective media). These experiments were carried out in multiple replicates, as indicated.

VPT Series	EcNR2		Nuc4 ⁻		EcNR2. <i>xseA</i> ⁻	
	Avg.	<i>St. Dev</i> (n=3)	Avg.	<i>Range</i> (n=2)	Avg.	<i>St. Dev</i> (n=3)
VPT1	4.67E-4	2.38E-4	2.32E-5	1.27E-5 – 3.37E-5	1.20E-3	8.18E-5
VPT2	1.73E-3	6.27E-4	3.08E-5	1.94E-5 – 4.22E-5	2.83E-3	9.84E-4
VPT3	1.11E-4	3.03E-5	4.29E-6	4.01E-6 – 4.57E-6	9.03E-5	2.98E-5
VPT4	5.97E-4	5.01E-4	1.72E-6	1.68E-6 – 1.76E-6	8.77E-5	4.35E-6
VPT5	1.26E-3	9.75E-4	1.42E-5	1.28E-5 – 1.57E-5	1.20E-3	6.11E-4
VPT6	2.28E-5	1.93E-5	3.04E-6	2.91E-6 – 3.17E-6	6.36E-5	2.55E-5
VPT7	4.60E-5	3.04E-5	2.44E-6	1.80E-6 – 3.09E-6	7.53E-5	4.59E-5