
Exonuclease-enhanced prime editors

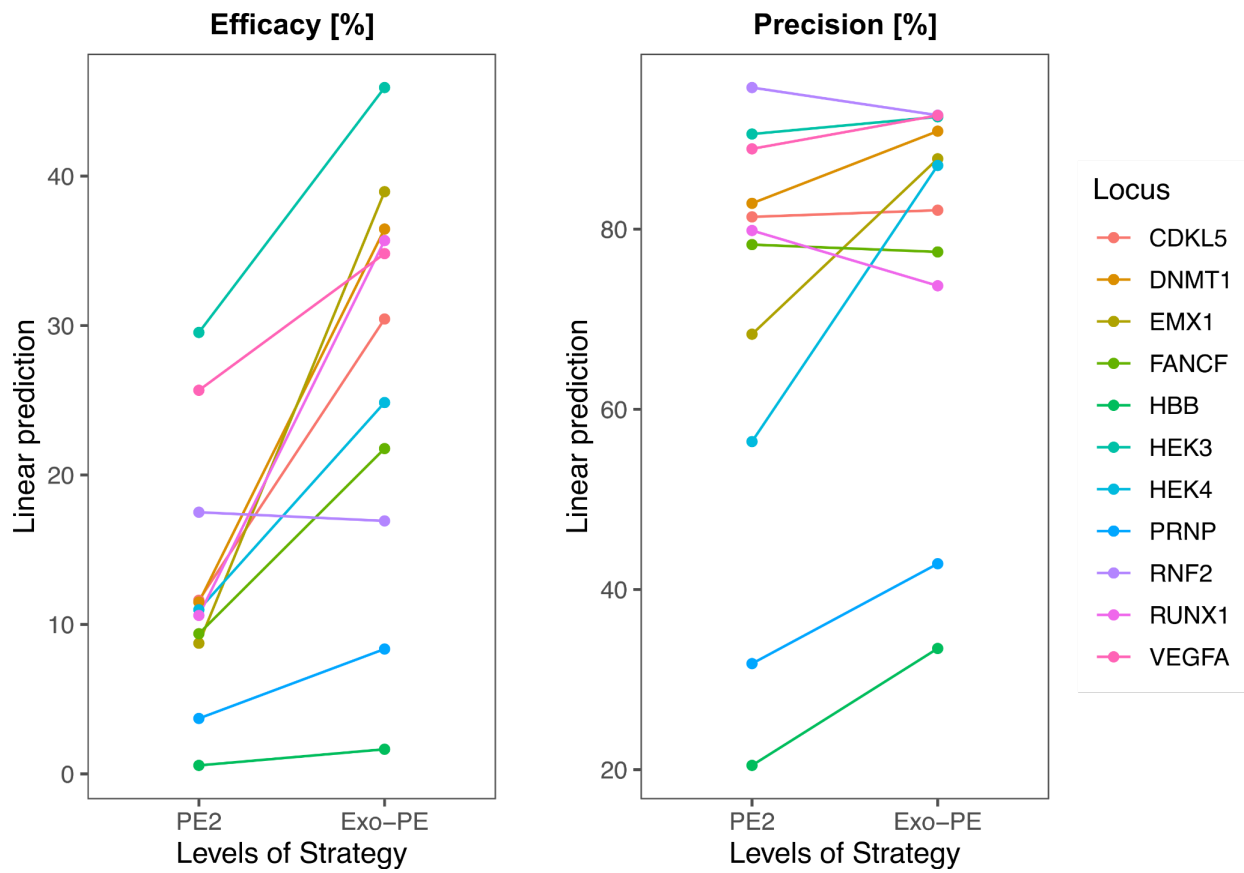
In the format provided by the
authors and unedited

Table of Contents

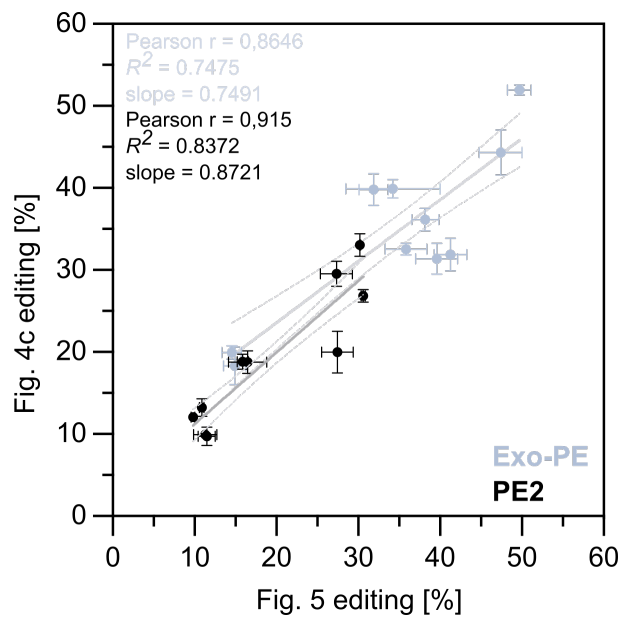
Supplementary Figure 1 | Additional comparison of 'Exo-PE' and 'PE2' performance on 11 loci. – page 2

Supplementary Figure 2 | Reproducibility of editing results. – page 3

FACS gating strategy – pages 4-6

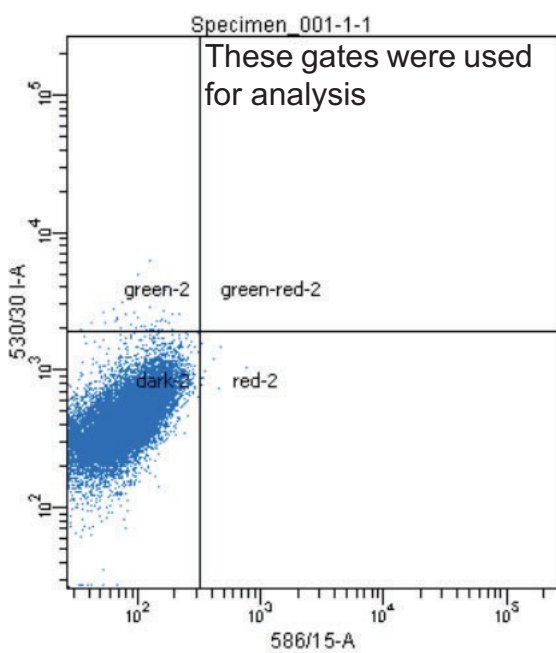
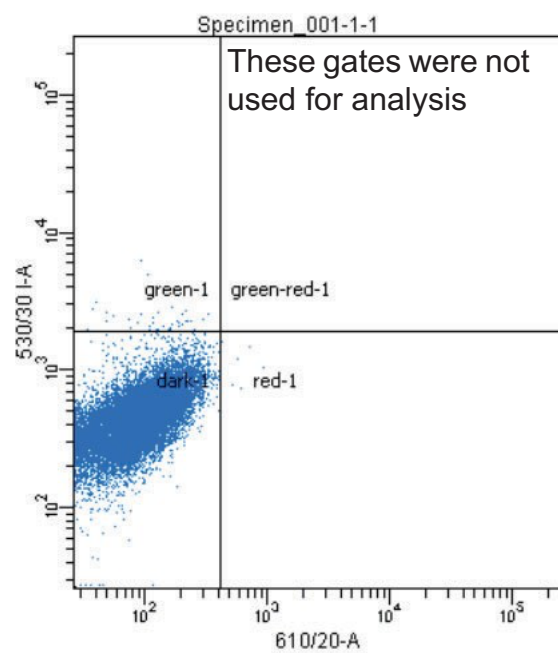
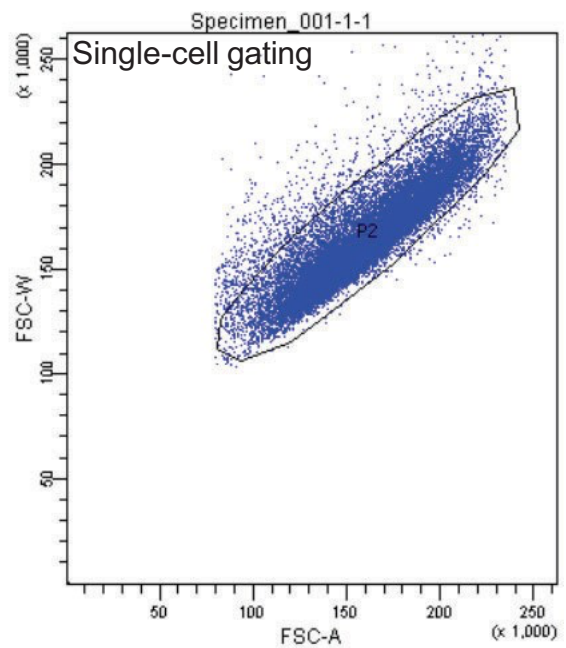
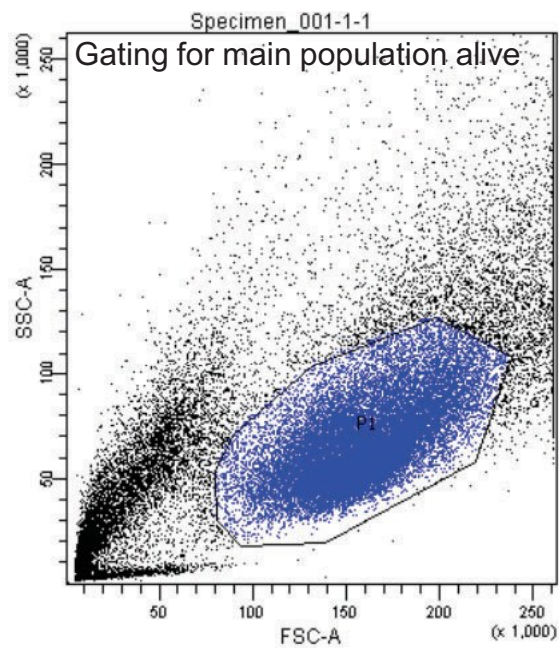


Supplementary Figure 1 | Additional comparison of 'Exo-PE' and 'PE2' performance on 11 loci. Efficacy and precision data were combined for all loci on which direct comparisons of 'PE2' and 'Exo-PE' were conducted (data taken from Figures 4c, 5, 6, Extended Data Figure 7a). The predicted editing efficacy (left) and precision (right) from the linear model ($\sim \text{Locus} * \text{Strategy} * \text{iPE-N/iPE-C}$) averaged over iPE-N/C are plotted color-coded for all 11 loci using the emmeans package in R (3.4.1).

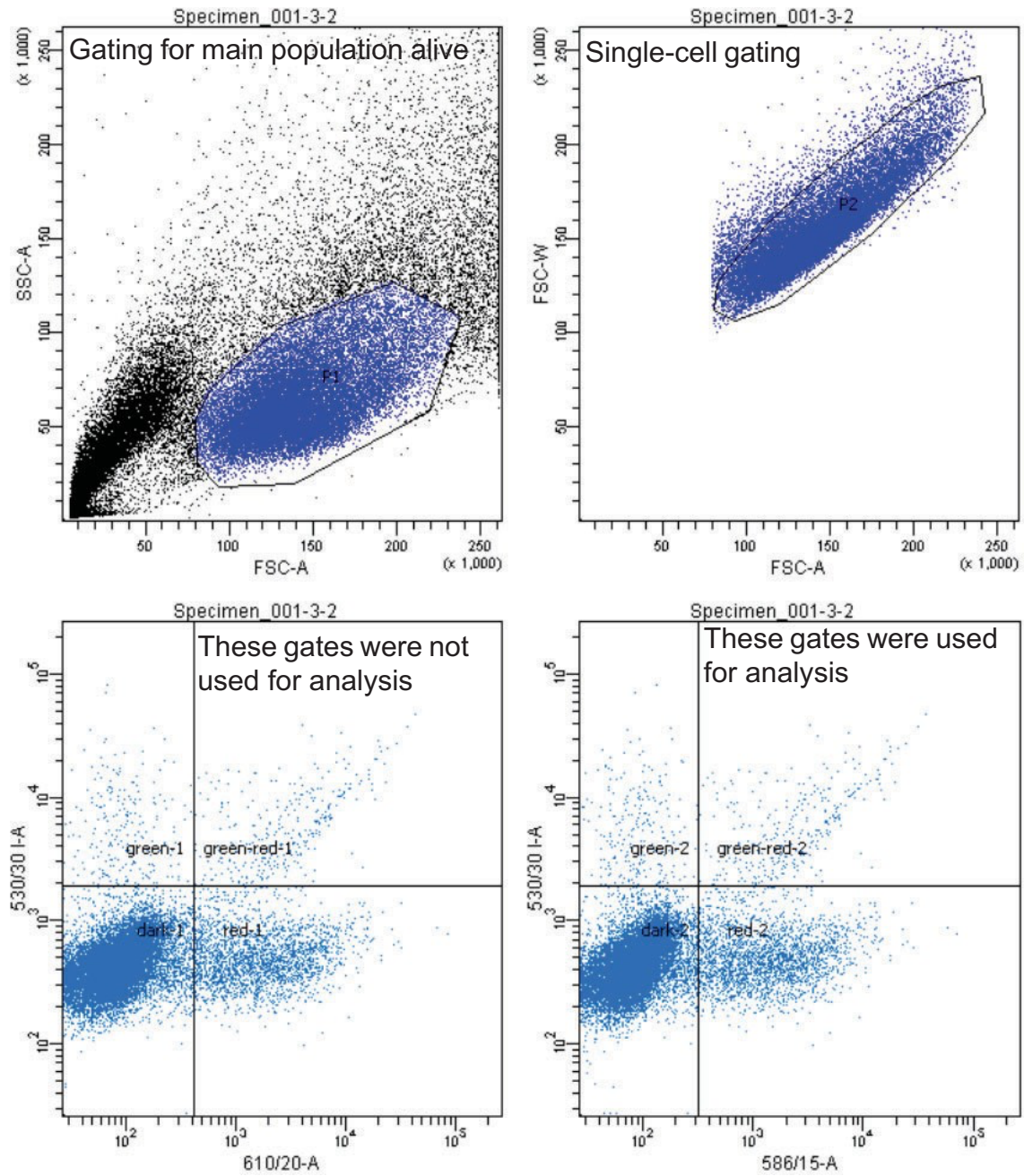


Supplementary Figure 2 | Reproducibility of editing results. Plotting all efficacy data points for FLAG insertion taken from Figure 4c and Figure 5 shows the correlation between two independently executed experiments ($P = 0.0002$ for 'PE2', $P = 0.0012$ for 'Exo-PE'). Gray lines indicate the 0.95 confidence bands of the linear regression. Please see **Supplementary Table 1** for complete statistical results.

FACS gating strategy



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Tube: 3-2

Population	#Events	%Parent	%Total
All Events	50,000	###	100.0
P1	22,672	45.3	45.3
P2	21,245	93.7	42.5
green-1	234	1.1	0.5
green-red-1	299	1.4	0.6
dark-1	18,403	86.6	36.8
red-1	2,309	10.0	4.6
green-2	239	1.1	0.5
green-red-2	308	1.4	0.6
dark-2	18,278	86.0	36.6
red-2	2,420	11.4	4.8
IRFP720	0	0.0	0.0

Highlighted numbers are used for analysis