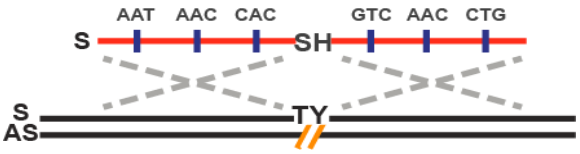
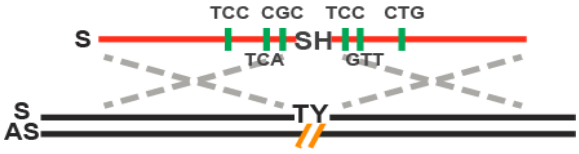
S1. Conversion tracts of nick-induced HDR using S sgRNA* and S ODNs



AAT	AAC	CAC	TCTCAT	GTC	AAC	CTG
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	+	+	-	-	-
+	+	+	+	-	-	-
-	-	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
+	+	+	+	-	-	-
-	-	-	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	-	-	+	-	-	-
-	+	+	+	-	-	-
-	-	+	+	-	-	-
+	+	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	+	-	-
-	-	-	+	-	-	-
-	+	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	+	+	+	-	-	-
-	+	+	+	-	-	-
-	-	-	+	-	-	-
-	-	-	+	-	-	-
-	-	+	+	-	-	-
3	7	20	43	1	0	0
6.98%	16.28%	46.51%	100.00%	2.33%	0.00%	0.00%



TCC	TCA	CGC	TCTCAT	TCC	GTT	CTG
-	-	-	+	+	-	-
+	+	+	+	-	-	-
-	-	+	+	-	-	-
-	+	+	+	-	-	-
+	+	+	+	+	-	-
+	+	+	+	+	+	-
-	+	+	+	-	-	-
-	-	+	+	+	-	-
+	+	+	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	-	+	+	-	-	-
-	+	+	+	-	-	-
-	+	+	+	+	+	-
+	+	+	+	-	-	-
-	+	+	+	-	-	-
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-	+	+	+	+	+	-
-	-	+	+	-	-	-
-	+	+	+	-	-	-
+	+	+	+	+	-	-
-	+	+	+	-	-	-
+	+	+	+	-	-	-
-	+	+	+	-	-	-
10	20	31	32	10	3	0
31.25%	62.50%	96.88%	100.00%	31.25%	9.38%	0.00%

Supplemental Table S1. Individual conversion tracts of single nick (S sgRNAs) -induced PGE using S ODN donors. Top — Schematic configurations of PGE. Genomic DNA, black; genomic lesions, hatched orange lines; chromophore sequences, TY and SH; ODNs, red; SNPs on the 6SNP_A ODNs, blue; SNPs on the 6SNP_B ODNs, green; homology regions, dashed silver crosses; strandedness of DNA, S and AS. Bottom — SNP retention of individual conversion tracts. SNP, center of the trinucleotides; TCTCAT, the SH sequence; retained SNPs, +; lost SNPs, -; retained SNPs on the 6SNP_A ODNs, blue; retained SNPs on the 6SNP_B ODNs, green; number of inserted nucleotides near the designated SNPs, Ins #; number of deleted nucleotides near the designated SNPs, del #.