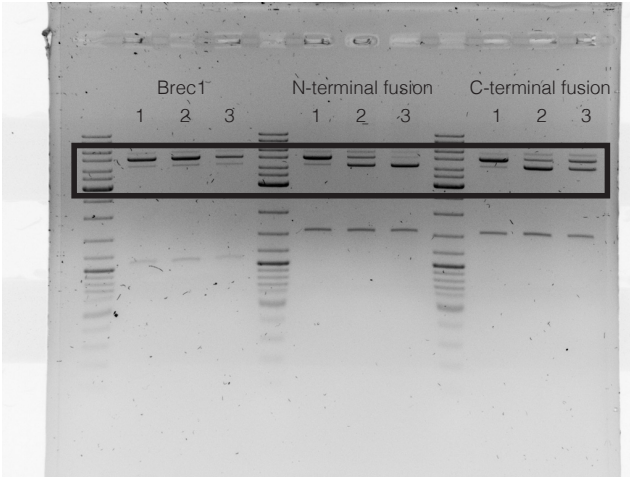
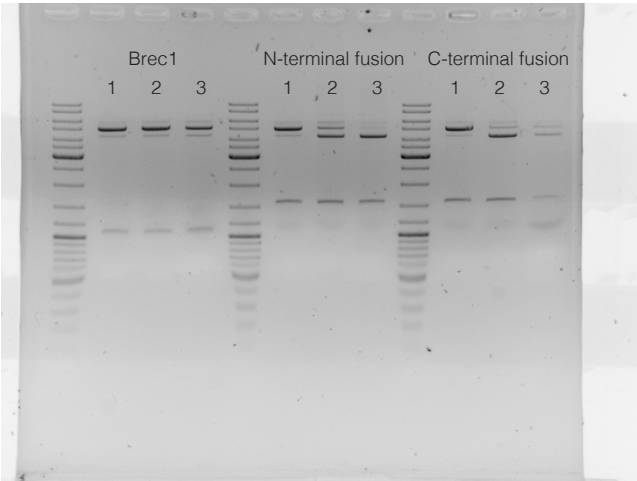


Figure 1f and Figure 1g source data

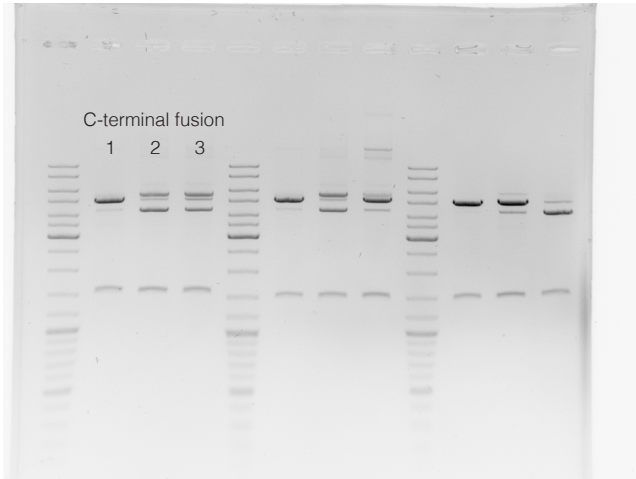
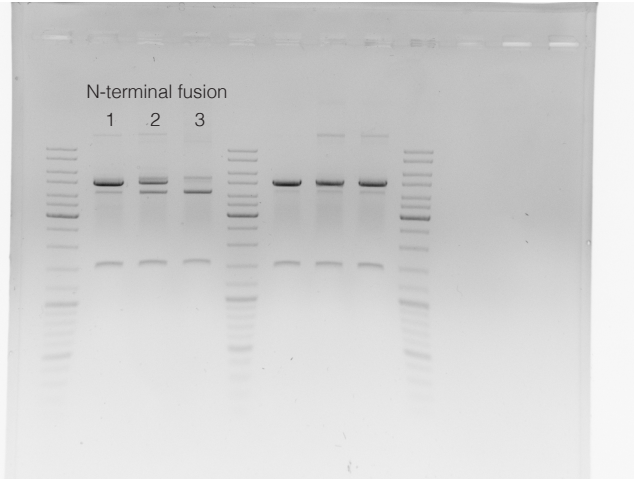
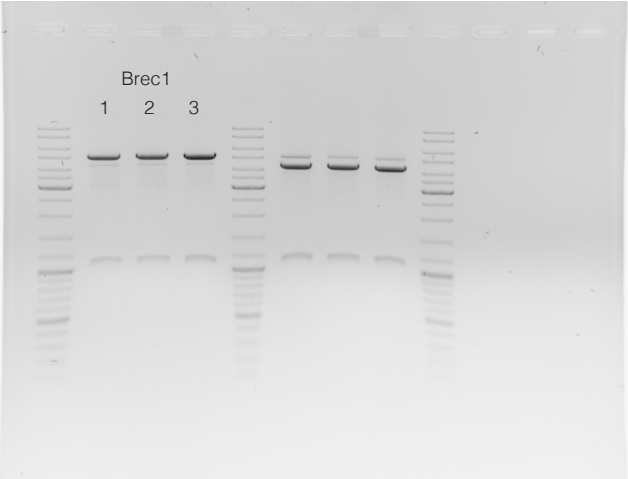
Replicate 1



Replicate 2



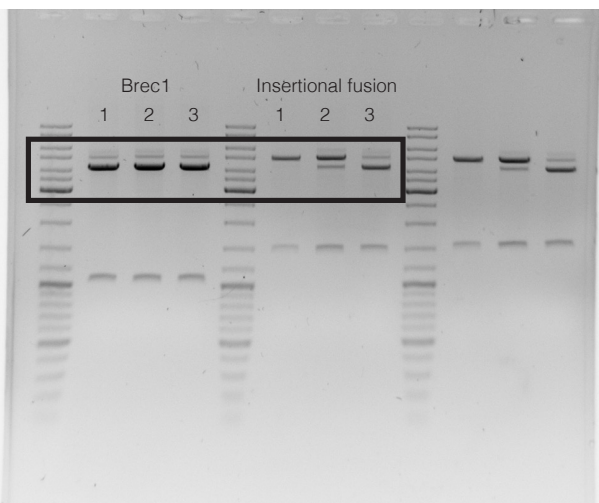
Replicate 3 (samples were on three different gels)



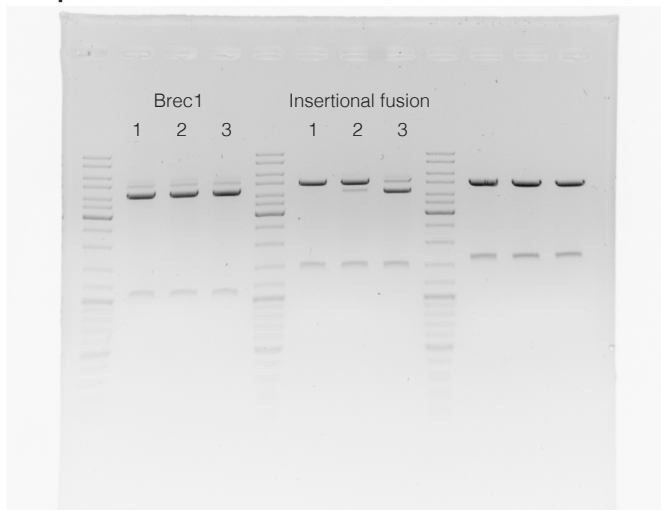
Agarose gel pictures of the replicates used for the experiment shown in Figure 1f and Figure 1g. The black frame indicates the fragment of the gel that is shown in the Figure 1f. TS = target site. TS1: loxBTR, TS2: loxBTR-5-zif (A), TS3: loxBTR-5-zif (B).

Figure 2e and Figure 2f source data

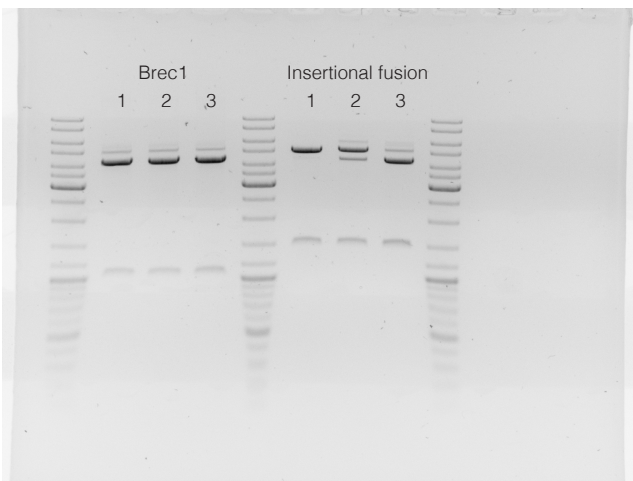
Replicate 1



Replicate 2



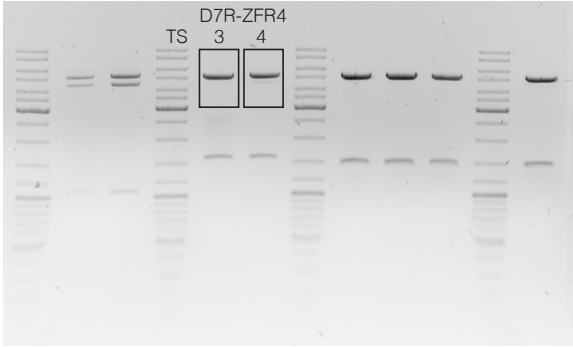
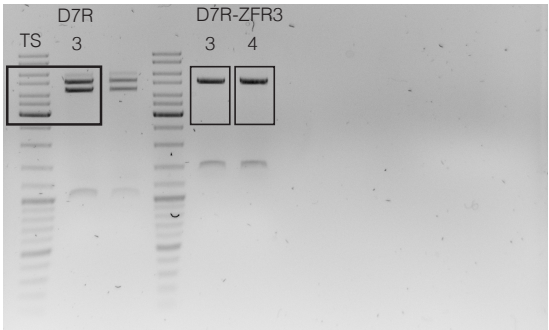
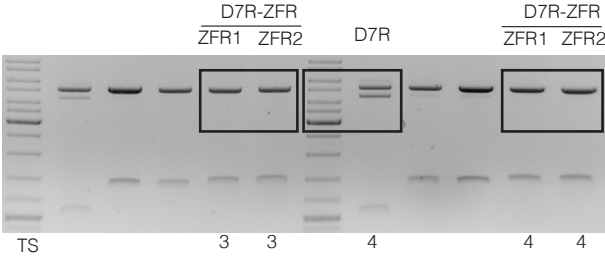
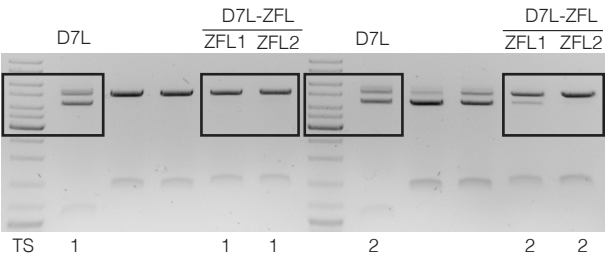
Replicate 3



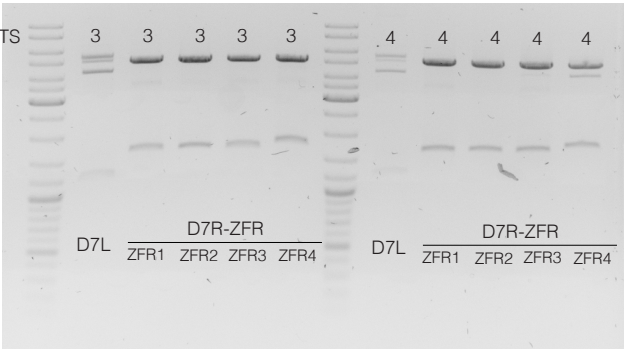
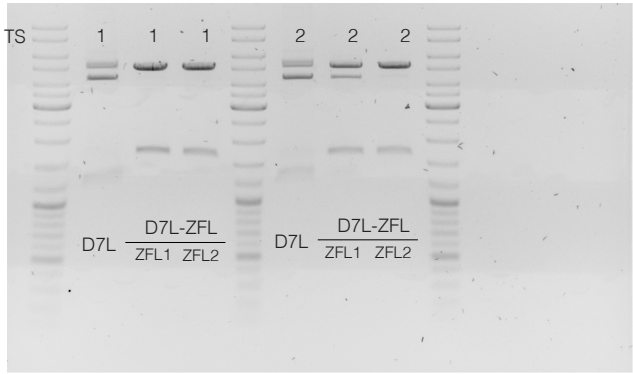
Agarose gel pictures of the replicates used for the experiment shown in Figure 2e and Figure 2f. The black frame indicates the fragment of the gel that is shown in the Figure 2e. TS = target site. TS1: loxBTR, TS2: loxBTR-5-zif (A), TS3: loxBTR-5-zif (B).

Figure 3b source data

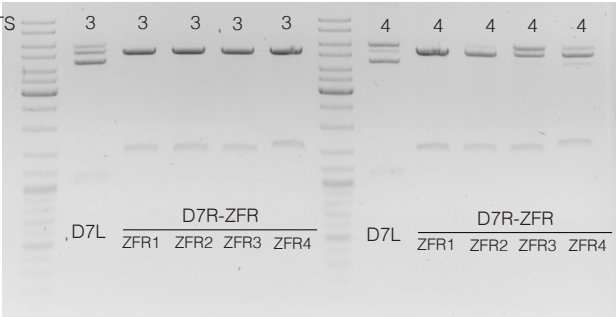
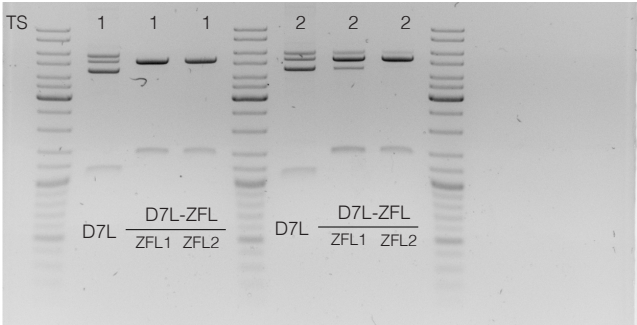
Replicate 1



Replicate 2

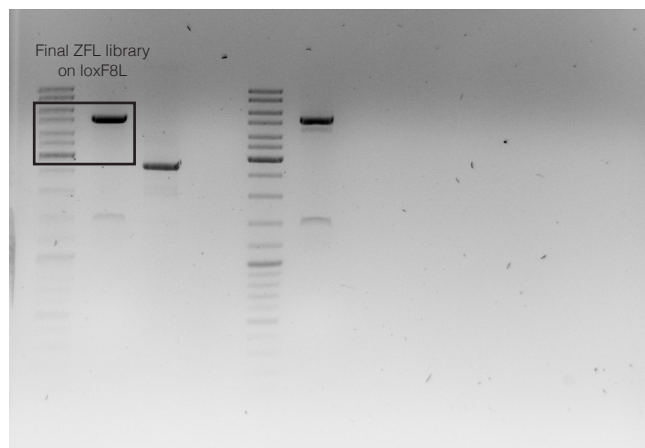
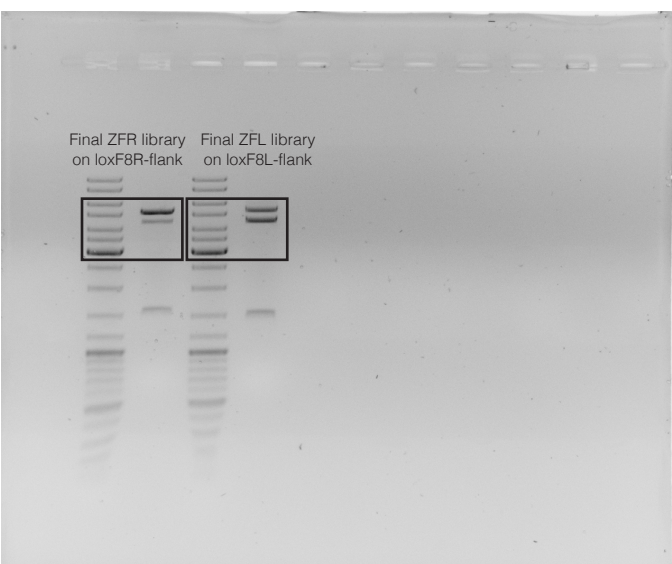
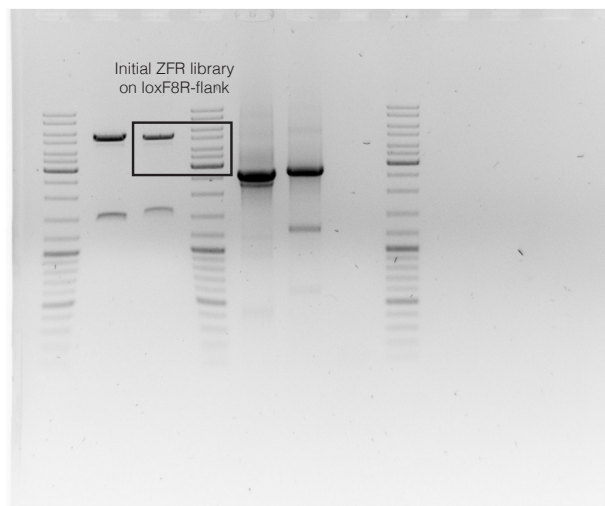
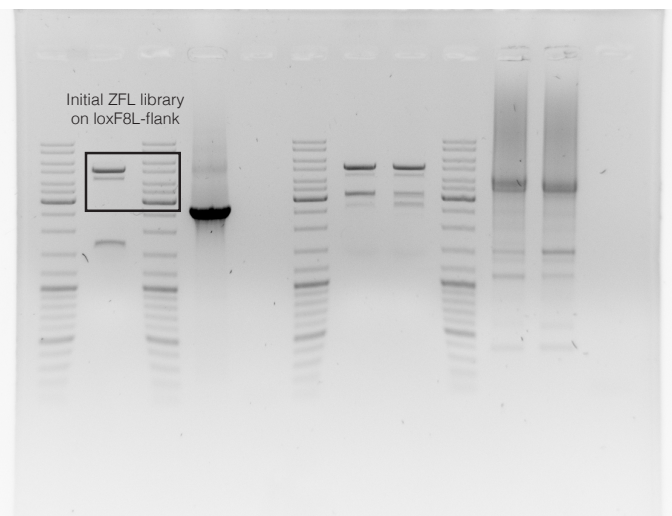


Replicate 3



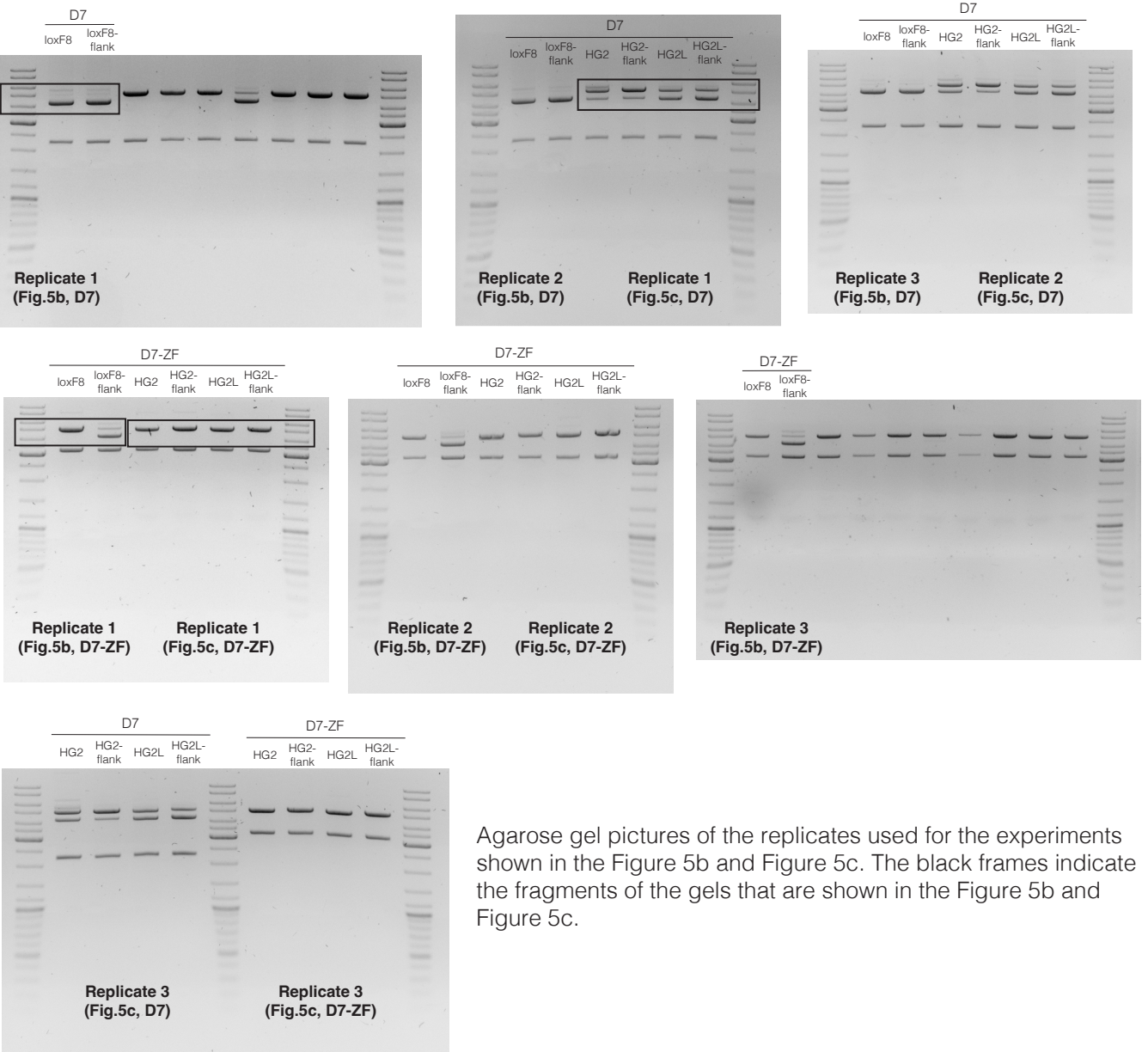
Agarose gel pictures of the replicates used for the experiment shown in Figure 3b. The black frames indicate the fragments of the gels that are shown in the Figure 3b. TS = target site. TS1: loxF8L, TS2: loxF8L-flank, TS3: loxF8R, TS4: loxF8R-flank.

Figure 4b source data



Agarose gel pictures of the recombination assay of the D7L and D7R recombinases fused with ZFL and ZFR libraries in the initial and final cycles of ZF evolution ($n=1$). The black frames indicate the fragments of the gels that are shown in the Figure 4b.

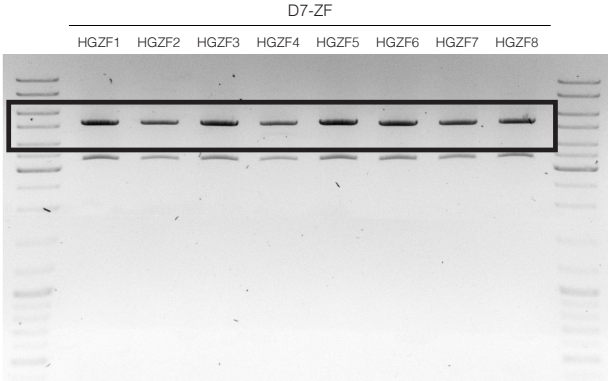
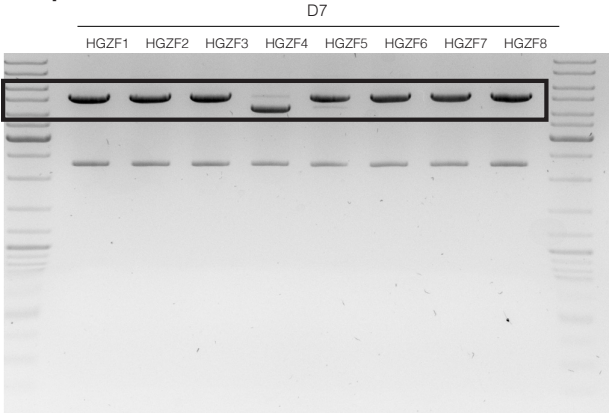
Figure 5b and Figure 5c source data



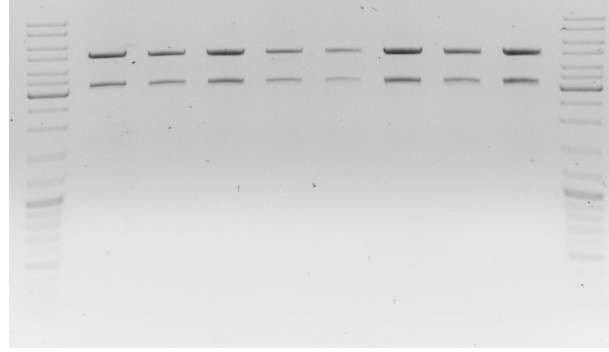
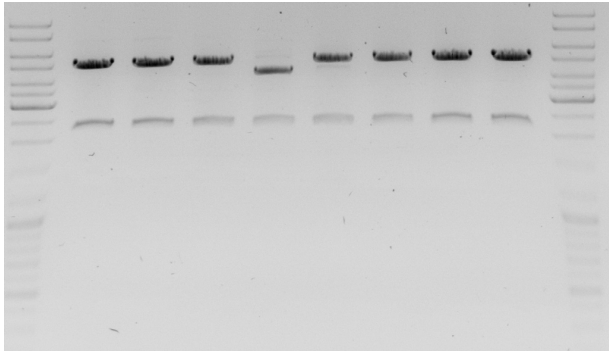
Agarose gel pictures of the replicates used for the experiments shown in the Figure 5b and Figure 5c. The black frames indicate the fragments of the gels that are shown in the Figure 5b and Figure 5c.

Figure 5d source data

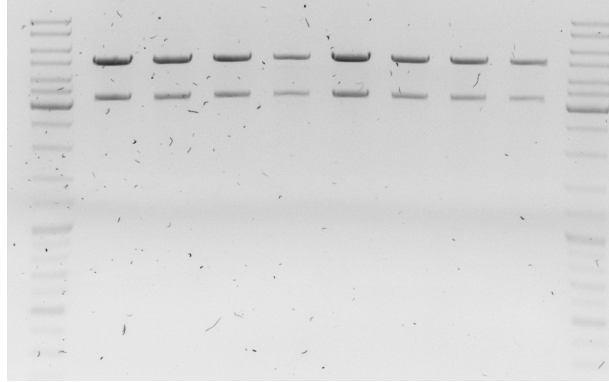
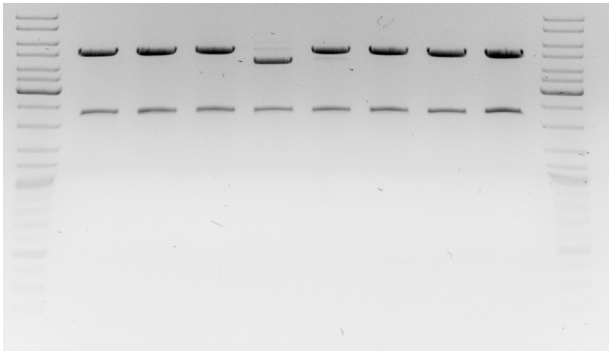
Replicate 1



Replicate 2



Replicate 3



Agarose gel pictures of the replicates used for the experiment shown in Figure 5d. The black frames indicate the fragments of the gels that are shown in the Figure 5d.

Figure 5f source data

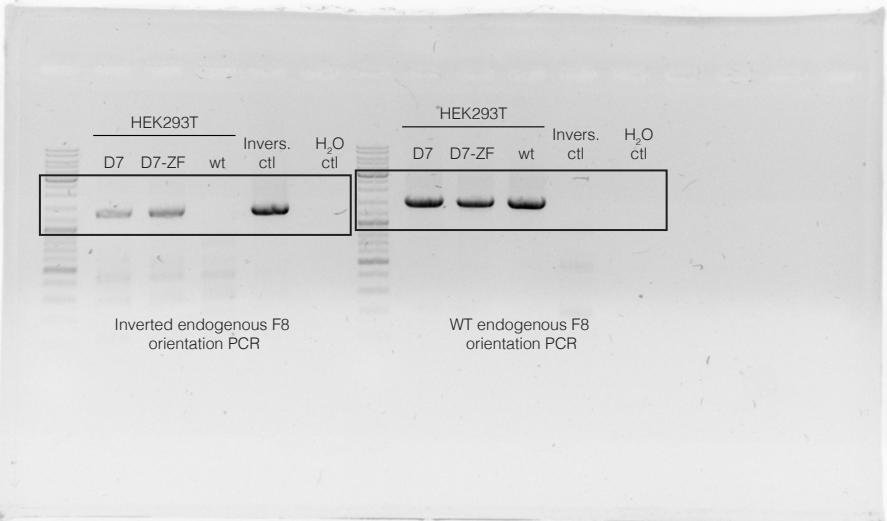
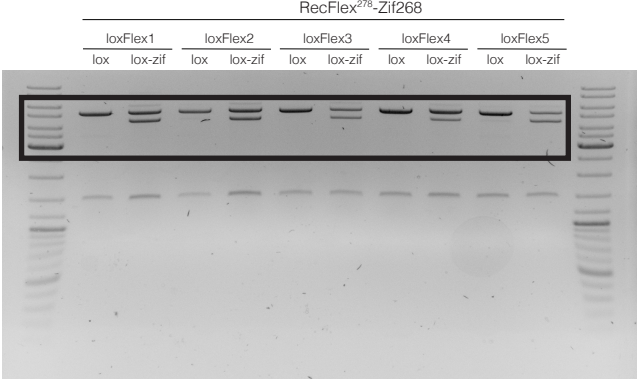
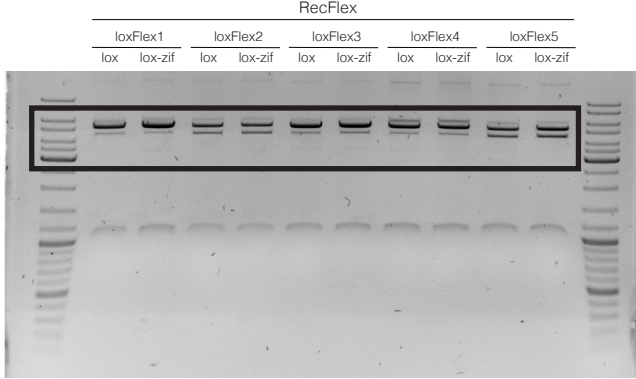
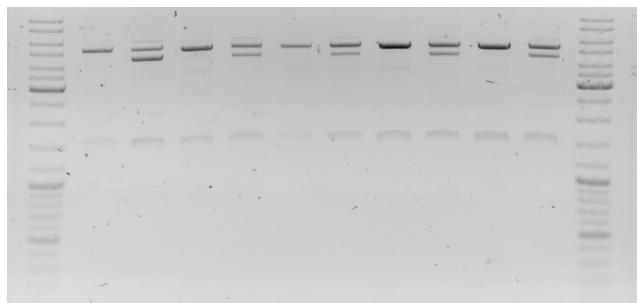
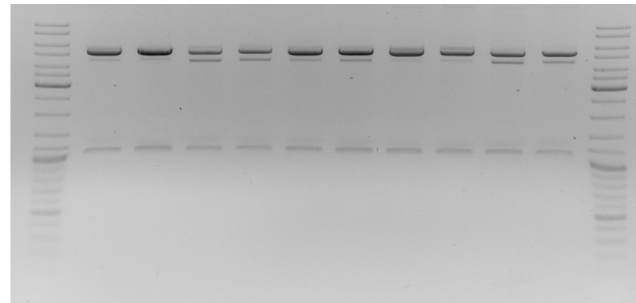


Figure 6d source data

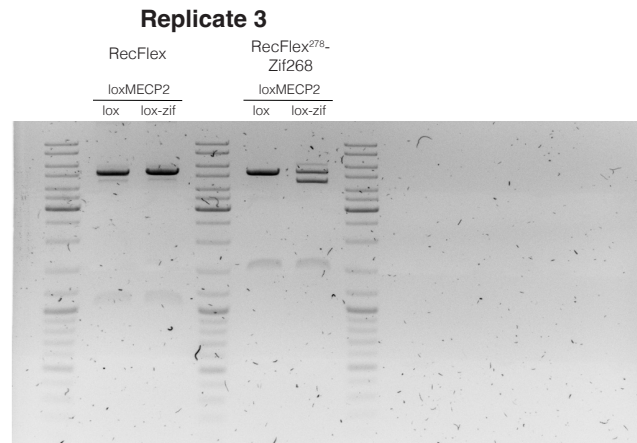
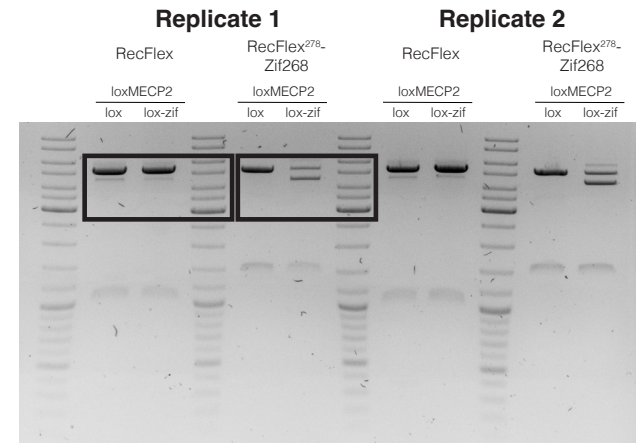
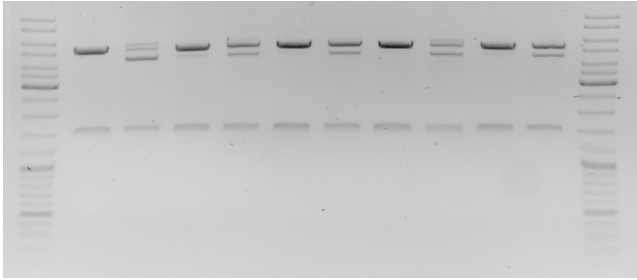
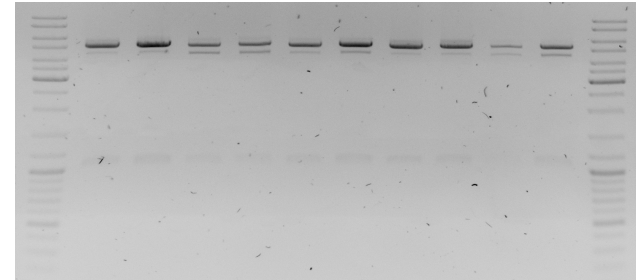
Replicate 1



Replicate 2

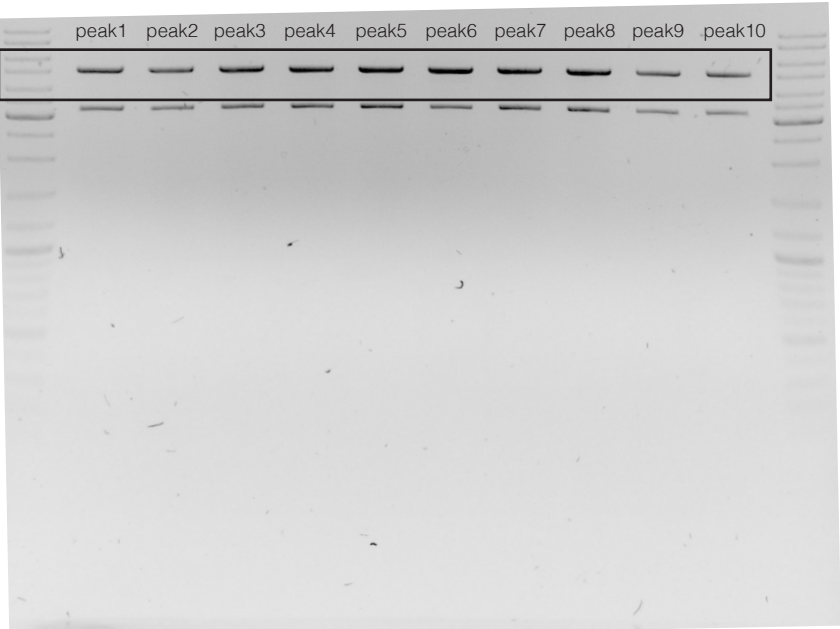


Replicate 3

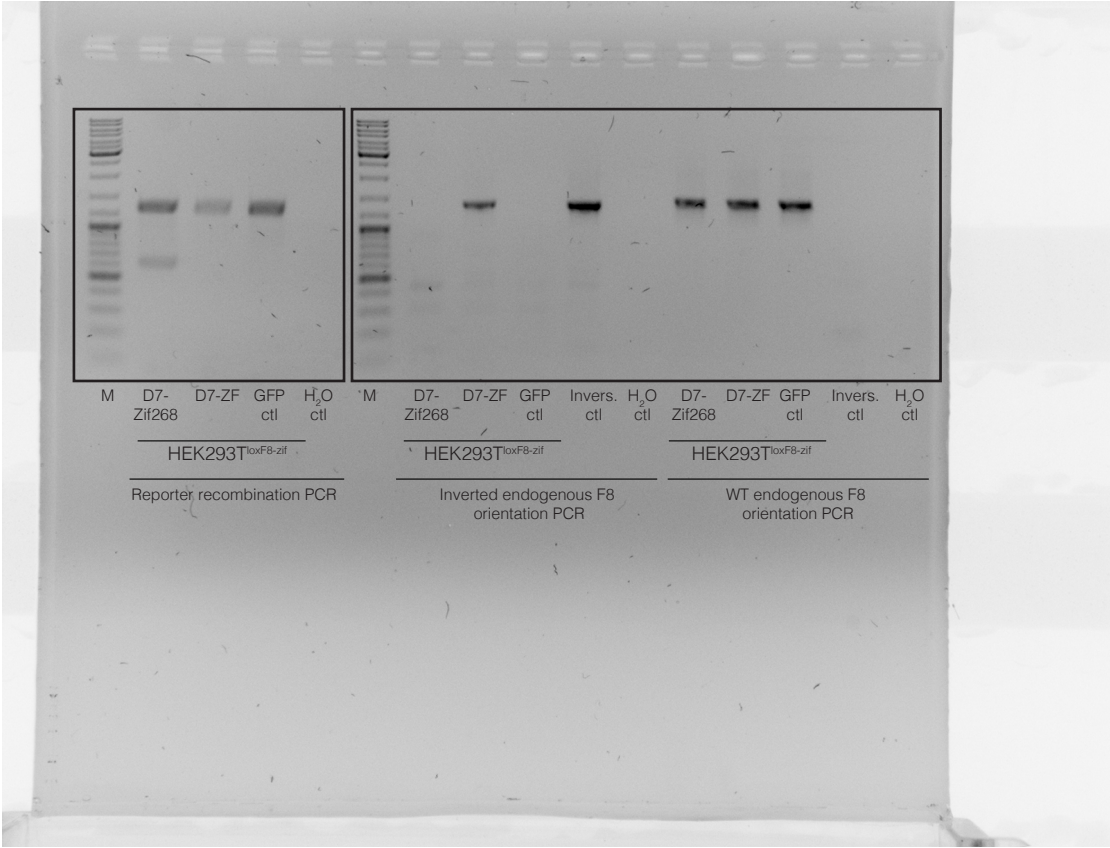


Agarose gel pictures of the replicates used for the experiment shown in Figure 6d. The black frames indicate the fragments of the gels that are shown in the Figure 6d.

Extended Data Fig 6e source data



Extended Data Figure 8 source data



Extended data Figure 9a source data

