Supplemental Information

Table S1. Plasmid and codon-optimized Cpf1-family protein sequences. Related to Figures 1, 2 and 6.

FnCpf1 locus sequences	*(permanent sequence links)*
pFnCpf1	https://benchling.com/s/Yz1hC8BN/edit
pFnCpf1_min	https://benchling.com/s/UZ2wCOF2/edit
pFnCpf1_ΔCas	https://benchling.com/s/ctaThKG6/edit
Human codon optimized Cpf1-family proteins	
1- Francisella tularensis subsp. Novicida U112 (FnCpf1)	https://benchling.com/s/0xgyNBMK/edit
2- Lachnospiraceae bacterium MC2017 (Lb3Cpf1)	https://benchling.com/s/Oo2fP2pu/edit
3- Butyrivibrio proteoclasticus (BpCpf1)	https://benchling.com/s/b9izZiQ3/edit
4- Peregrinibacteria bacterium GW2011_GWA_33_10 (PeCpf1)	https://benchling.com/s/JcCPhiwB/edit
5- Parcubacteria bacterium GWC2011_GWC2_44_17 (PbCpf1)	https://benchling.com/s/yAlizdZH/edit
6- Smithella sp. SC_K08D17 (SsCpf1)	https://benchling.com/s/bUG7ykgA/edit
7- Acidaminococcus sp. BV3L6 (AsCpf1)	https://benchling.com/s/wXO8WZJ7/edit
8- Lachnospiraceae bacterium MA2020 (Lb2Cpf1)	https://benchling.com/s/R9HC1JbY/edit
9- Candidatus Methanoplasma termitum (CMtCpf1)	https://benchling.com/s/ZC673QLc/edit
10- Eubacterium eligens (EeCpf1)	https://benchling.com/s/0DPsrCES/edit
11- Moraxella bovoculi 237 (MbCpf1)	https://benchling.com/s/bCMe5blI/edit
12- Leptospira inadai (LiCpf1)	https://benchling.com/s/pqFOk5Rn/edit
13- Lachnospiraceae bacterium ND2006 (LbCpf1)	https://benchling.com/s/HVIyGqQs/edit
14- Porphyromonas crevioricanis (PcCpf1)	https://benchling.com/s/wDDn4cBS/edit
15- Prevotella disiens (PdCpf1)	https://benchling.com/s/B8eGa0Ky/edit
16- Porphyromonas macacae (PmCpf1)	https://benchling.com/s/NDZsqgFs/edit

Table S2. List of primer sequences used in this study. Related to all figures.

See separate Excel file.

Table S3. Accession information for all unique Cpf1-family proteins. Related to Figure 6.

See separate Excel file.