

gRNAs with additional 5'G (gN20/GN20) gRNAs without additional 5'G (GN19) On-target activity by On-to-off target ratio by On-to-off target ratio by On-target activity by On-target activity by Cas9 variants T7E1 assay (GN20) T7E1 assay (gN20) GUIDE-Seq (gN20) GUIDE-Seq T7E1 assay 100.0 52.6 WT SpCas9 100.0 100.0 35.6 Opti-SpCas9 95.9 93.7 109.1 73.8 OptiHF-SpCas9 65.2 26.1 99.4 59.6 90.6 Sniper-Cas9 38.2 64.2 48.0 38.8 96.3 evoCas9 40.5 14.4 0.0 n.d. 100.0 HypaCas9 32.2 24.0 106.8 95.5 n.d. eSpCas9(1.1) 14.2 39.7 103.4 99.9 n.d.

Table 2: Comparison of the accuracy and efficiency of SpCas9 variants.

圖表二: 比較不同SpCas9變體的準確性和效率。