Chromatin profiles H2AFZ H3K27ac H3K27me3 H3K36me3 H3K4me1 H3K4me2 H3K4me3 0.550 -0.54 H • 0.52 0.650 0.62 0.675 0.600 0.51 0.525 0.50 0.625 0.60 0.650 0.575 0.48 0.500 0.48 0.58 0.600 0.625 0.46 0.45 0.475 0.575 0.600 0.525 -0.44 -0.42 0.450 Chromatin profiles Regulatory elements H3K9ac H3K9me3 H4K20me1 Enhancers Enhancers (types) Promoter (no TATA) Promoter all 0.525 -0.78 0.48 -0.550 0.775 0.67 0.500 0.550 0.44 0.525 0.76 0.65 0.475 O.525 ≥ 0.500 0.500 0.40 0.63 0.450 0.74 0.725 0.425 0.61 0.36 0.475 0.475 0.400 0.59 0.700 Splicing Genome origin Four kingdom Plasmid Acceptors ΑII Donors 1.0 ¬ 0.65 -Model Type 0.9-0.5 -0.8 0.9 seqLens 4096 512 89M-at-base 0.60 0.8seqLens_4096_512_89M-at-base-LoRA

0.8

0.7

NT-100

NT-100-LoRA

0.6

0.4

0.4

0.3

0.7

0.6

0.55

0.50