H2AFZ H3K27ac H3K27me3 H3K36me3 H3K4me1 H3K4me2 H3K4me3 0.54 -0.55 0.54 -0.63 0.700 -0.54 0.650 0.52 0.600 0.62 0.52 0.675 0.53 0.50 0.625 0.50 0.52 0.60 0.48 0.625 0.51 0.600 0.48 0.46 0.50 0.58 0.600 -0.575 0.46 0.525 -Chromatin profiles Regulatory elements H3K9ac H3K9me3 H4K20me1 Enhancers Enhancers (types) Promoter (no TATA) Promoter all 0.52 -0.78 + 0.68 0.55 0.575 0.78 0.475 0.50 -0.550 0.53 0.76 0.450 O 0.525 0.48 0.425 0.46 0.400 0.49 0.500 0.72 0.62 0.72 0.44 0.375 0.47 0.475 Genome origin Splicing Model Type Four kingdom Plasmid Acceptors All Donors 0.90 -0.900 0.66 seqLens 4096 512 15M 0.54 seqLens\_4096\_512\_23M-at-xsmall 0.63 0.875 0.85 0.51 seqLens\_4096\_512\_27M 0.60 seqLens 4096 512 46M 0.850 0.48

0.825

seqLens\_4096\_512\_47M-at-small

seqLens\_4096\_512\_89M-at-base

seqLens 4096 512 89M

0.80

0.80

0.75

0.45

0.57

0.54

**Chromatin profiles**