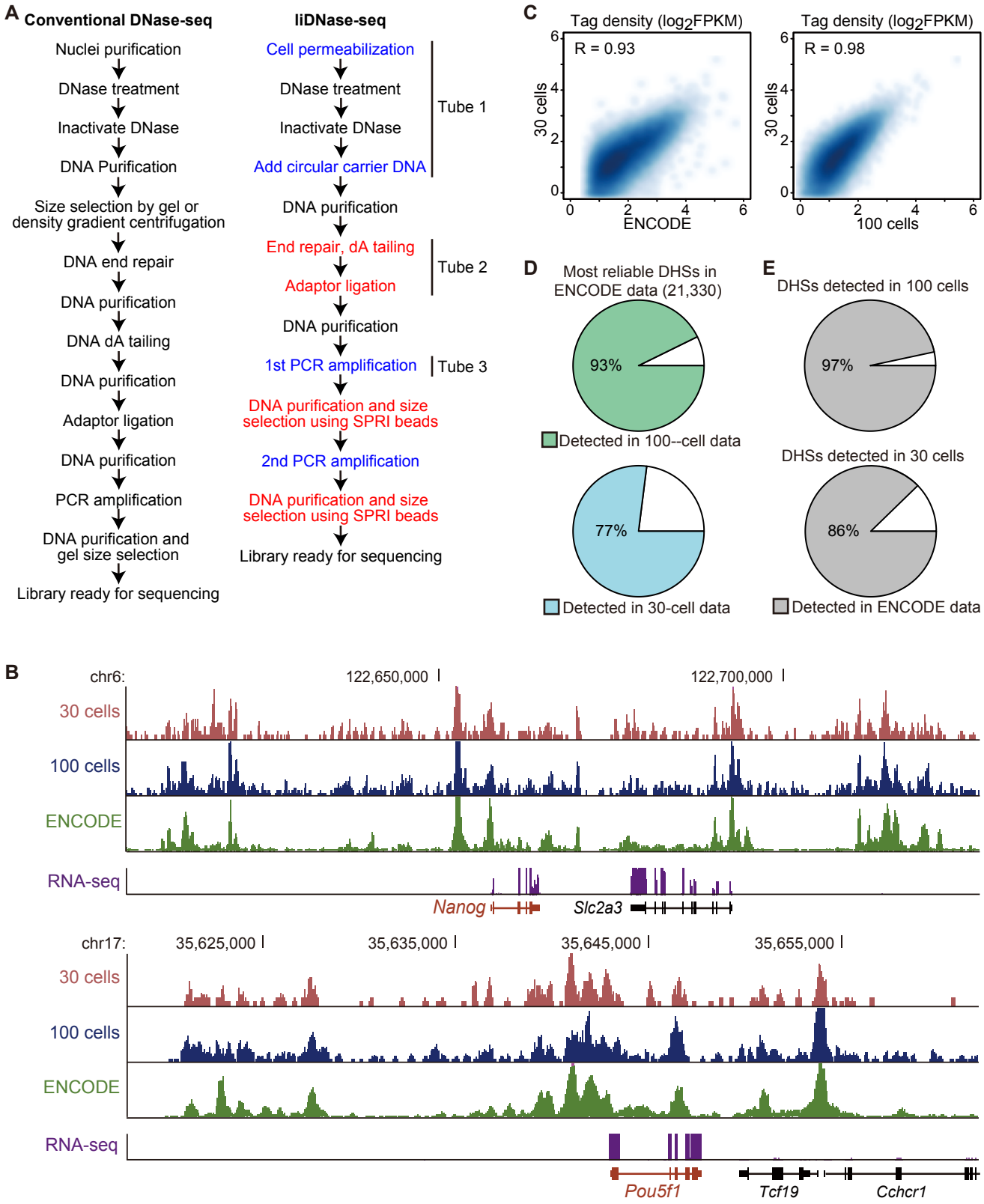
Figure S1


A
Conventional DNase-seq
Nuclei purification
DNase treatment
Inactivate DNase
DNA Purification
Size selection by gel or density gradient centrifugation
DNA end repair
DNA purification
DNA dA tailing
DNA purification
Adaptor ligation
DNA purification
PCR amplification
DNA purification and gel size selection
Library ready for sequencing
liDNase-seq
Cell permeabilization
DNase treatment
Inactivate DNase
Add circular carrier DNA
Tube 1
DNA purification
End repair, dA tailing
Adaptor ligation
Tube 2
DNA purification
1st PCR amplification
Tube 3
DNA purification and size selection using SPRI beads
2nd PCR amplification
DNA purification and size selection using SPRI beads
Library ready for sequencing
C
Tag density (log2FPKM)
R = 0.93
30 cells
ENCODE
Tag density (log2FPKM)
R = 0.98
30 cells
100 cells
D
Most reliable DHSs in ENCODE data (21,330)
93%
Detected in 100--cell data
77%
Detected in 30-cell data
E
DHSs detected in 100 cells
97%
DHSs detected in 30 cells
86%
Detected in ENCODE data
B
chr6:
122,650,000
122,700,000
30 cells
100 cells
ENCODE
RNA-seq
Nanog
Slc2a3
chr17:
35,625,000
35,635,000
35,645,000
35,655,000
30 cells
100 cells
ENCODE
RNA-seq
Pou5f1
Tcf19
Cchcr1