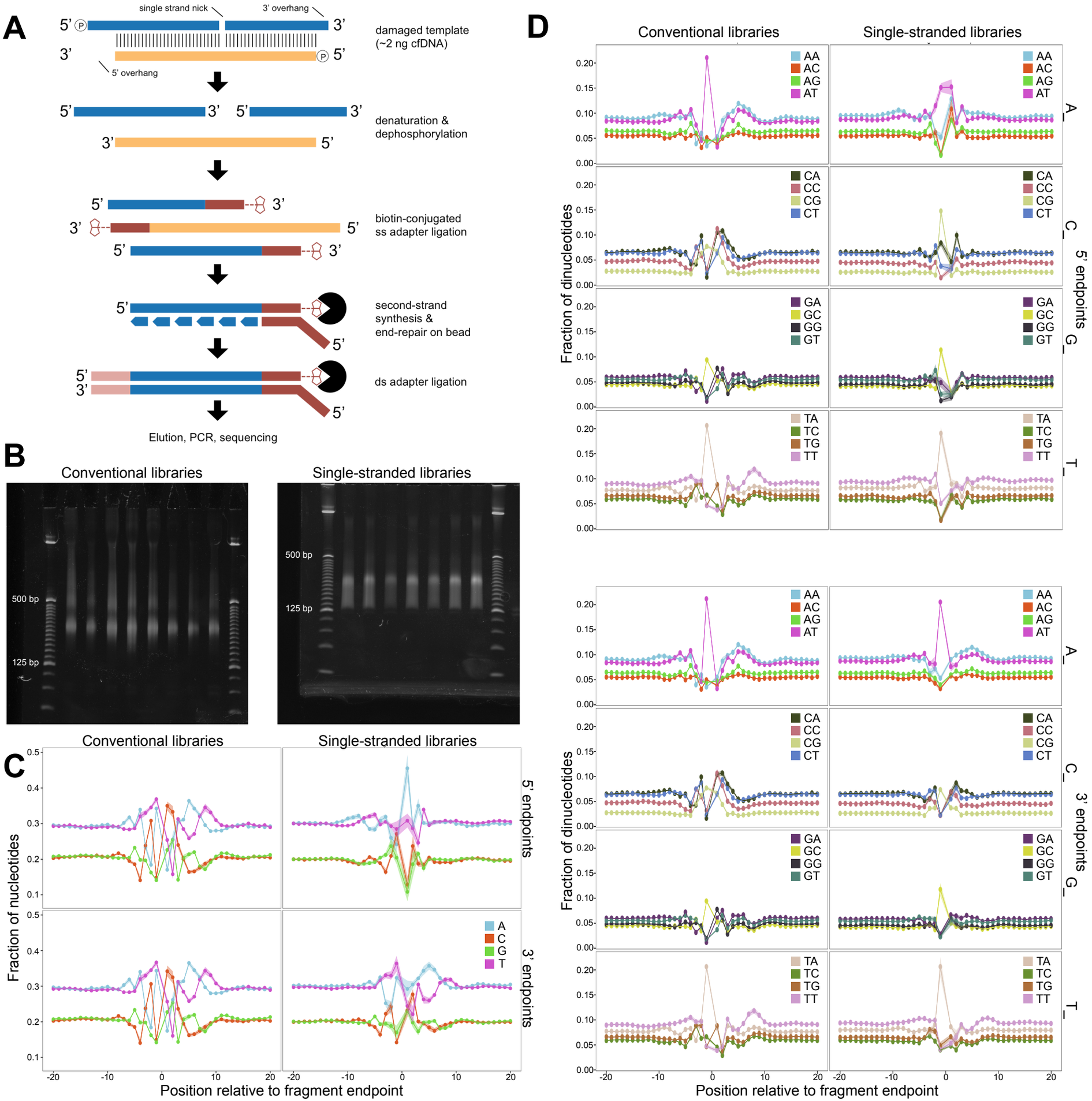
A
single strand nick
3' overhang
damaged template
(~2 ng cfDNA)
5' overhang
denaturation &
dephosphorylation
biotin-conjugated
ss adapter ligation
second-strand
synthesis &
end-repair on bead
ds adapter ligation
Elution, PCR, sequencing
B
Conventional libraries
Single-stranded libraries
500 bp
125 bp
C
Conventional libraries
Single-stranded libraries
Fraction of nucleotides
5' endpoints
3' endpoints
A
C
G
T
Position relative to fragment endpoint
D
Conventional libraries
Single-stranded libraries
Fraction of dinucleotides
AA
AC
AG
AT
CA
CC
CG
CT
GA
GC
GG
GT
TA
TC
TG
TT
A_
C_
G_
T_
5' endpoints
3' endpoints
Position relative to fragment endpoint