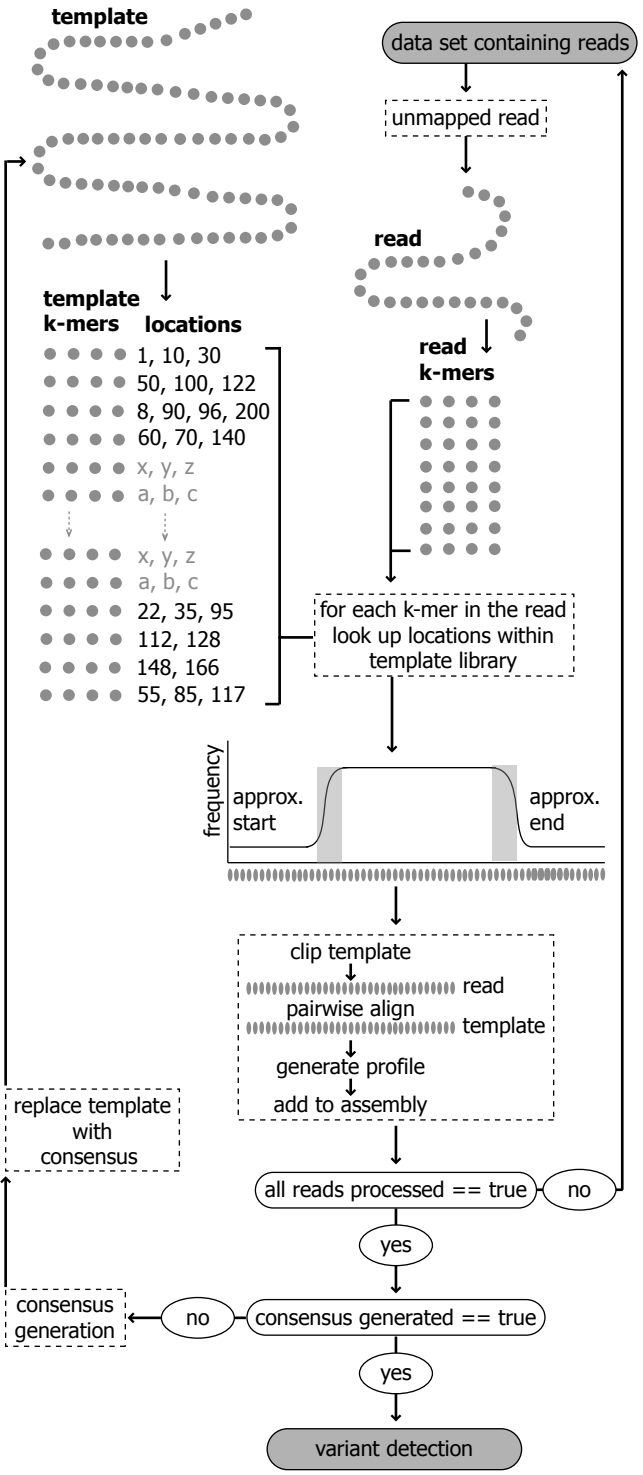
template
data set containing reads
unmapped read
read
template
k-mers
locations
1, 10, 30
50, 100, 122
8, 90, 96, 200
60, 70, 140
x, y, z
a, b, c
x, y, z
a, b, c
22, 35, 95
112, 128
148, 166
55, 85, 117
read
k-mers
for each k-mer in the read
look up locations within
template library
frequency
approx.
start
approx.
end
clip template
read
pairwise align
template
generate profile
add to assembly
replace template
with
consensus
all reads processed == true
no
yes
consensus
generation
no
consensus generated == true
yes
variant detection