

Individual heterozygous A/C. Sequences represent the two gene copies within the individual.

...TCGGACTTGACGGAATACCGACCGTCAACGATTTCATTGCGATGGCAG...
...TCGGACTTGACGGAATACCGACCGTCCACGATTTCATTGCGATGGCAG...

Reads from a library
with many PCR
duplicates

Reads from a library
with few PCR
duplicates

CGTCAACGATTTCATTGCGATGG
GACCGTCCACGATT
ACCGACCGTCAACGATTTCATT
CGTCAACGATTTCATTGCGATGG
CGTCAACGATTTCATTGCGATGG
CGTCAACGATTTCATTGCGATGG
CGTCAACGATTTCATTGCGATGG
ACCGACCGTCAACGATTTCATT
ACCGACCGTCAACGATTTCATT
ACCGACCGTCAACGATTTCATT

ACCGTCAACGATTTCATTGCGA
ATACCGACCGTCCACGATT
CCGTCAACGATTTCATTG
CGACCGTCAACGATTCA
AATACCGACCGTCCACGATTTCATTG
TCAACGATTTCATTGCG
CCGACCGTCCACG
GAATACCGACCGTCCAC
CCGTCAACGATTTCATTG
AATACCGACCGTCCACGATTTCATTG

Actual independent samples of the alleles carried
by the individual

A A C

A A A A C C C C