

	SNP1	SNP2	No polymorphism	False SNP
Reference sequence (BES)	A	A	A	A
Mapped NGS reads	A	C	A	C
	A	A	A	C
	C	C	A	C
	A	C	A	C
	C	A	A	C
	A	C	A	C
	C	A	A	C
	C	C	A	C
	A	C	A	C
	A	A		C
Read mapping depth	10	10	9	10
Allele frequency	$4/10 = 0.4$	$6/10 = 0.6$	$0/9 = 0$	$10/10 = 1.0$
Minor allele frequency	$4/10 = 0.4$	$1.0 - 0.6 = 0.4$	$0/9 = 0$	$1.0 - 1.0 = 0$