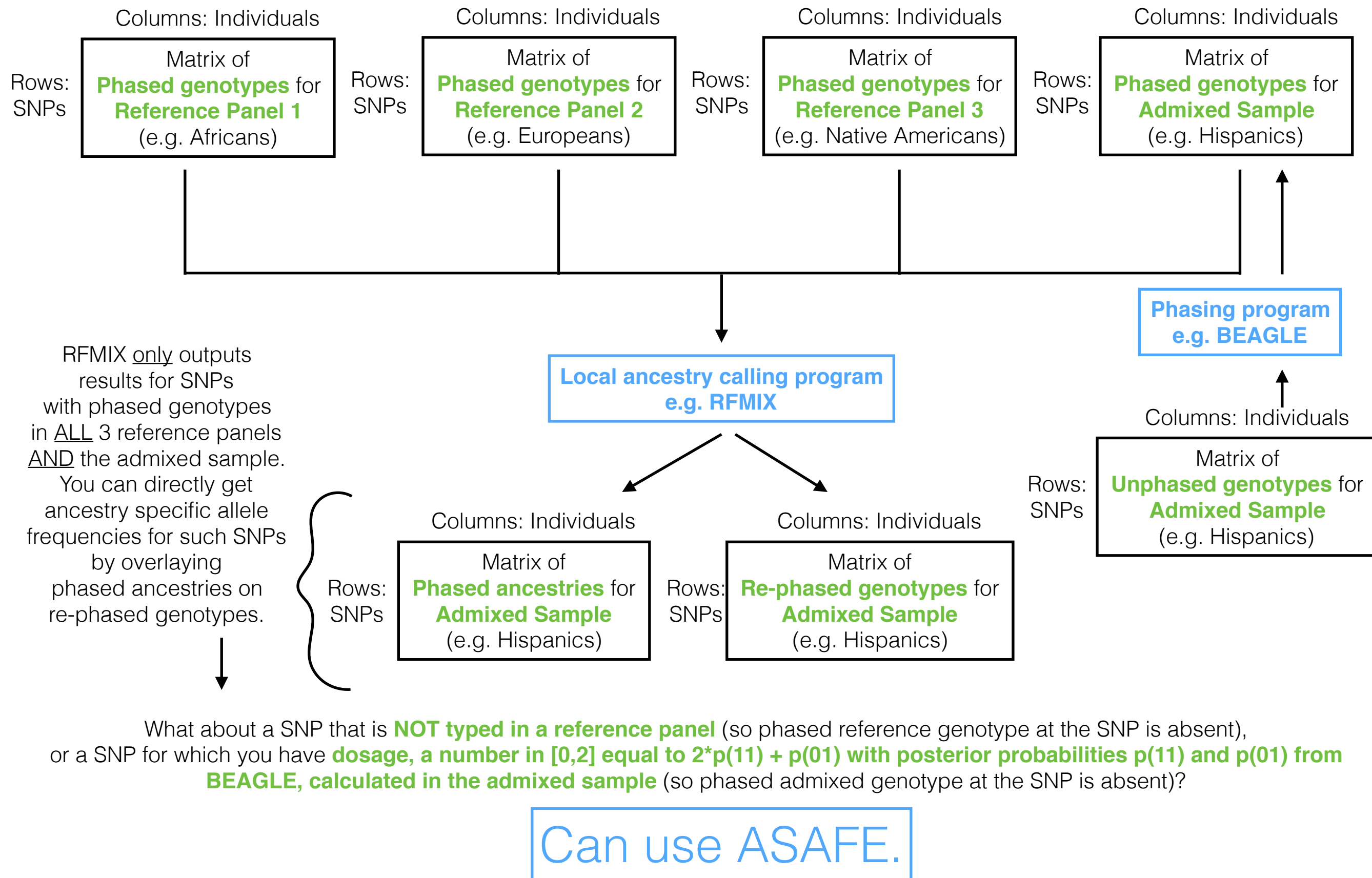
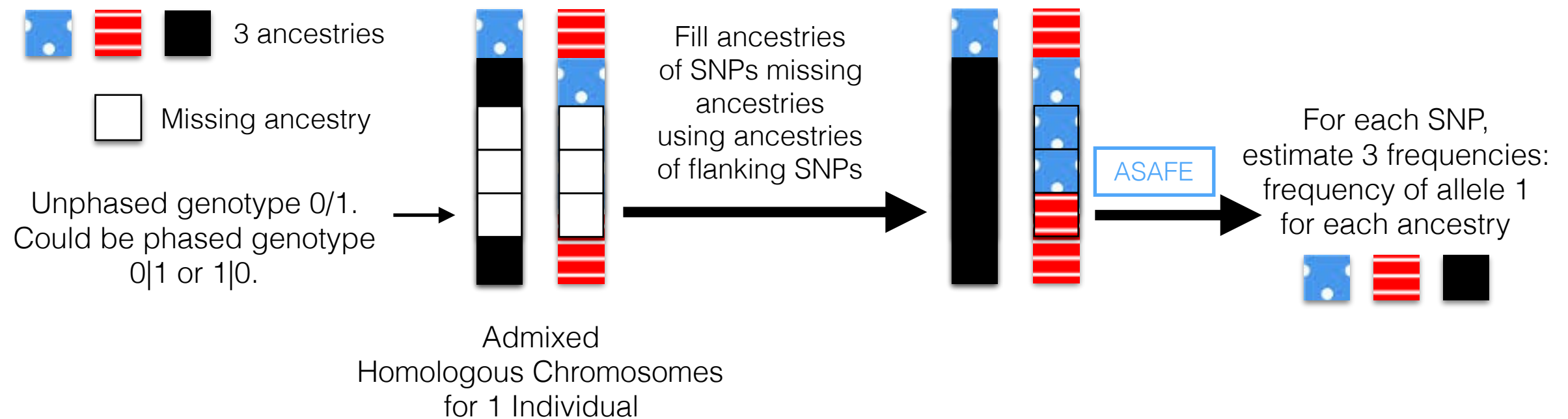


# Diagram Illustrating a Genetic Analysis Workflow that Uses ASAFE



What about a SNP that is **NOT typed in a reference panel** (so phased reference genotype at the SNP is absent), or a SNP for which you have **dosage, a number in  $[0,2]$  equal to  $2 \cdot p(11) + p(01)$  with posterior probabilities  $p(11)$  and  $p(01)$  from BEAGLE, calculated in the admixed sample** (so phased admixed genotype at the SNP is absent)?



**Figure 1.** Data right before applying ASAFE: Phased ancestries and unphased genotypes for all bi-allelic SNPs with unphased genotype observed or imputed in all admixed individuals.

A genotype can be imputed like so: Round a dosage in  $[0,2]$  to 0, 1, or 2 corresponding to unphased genotypes 0/0, 0/1 i.e. 1/0, or 1/1 respectively, or take the highest probability genotype from BEAGLE. Position along the chromosome is on the y-axis. Rows are SNPs.