

*Table S2: Summary of haplotype information across haplotype calling cutoffs*

$X_{\text{SNP}}$	$Y_{\text{BP}}$	unambiguous and < 3 haplotypes	ambiguous and/or > 2 haplotypes
2	10 bp	0.77	0.23
4	10 bp	0.70	0.30
10	10 bp	0.58	0.42
2	1 kb	0.76	0.24
4	1 kb	0.70	0.30
10	1 kb	0.58	0.42
2	10 kb	0.72	0.28
4	10 kb	0.67	0.33
10	10 kb	0.57	0.43
2	100 kb	0.54	0.46
4	100 kb	0.53	0.47
10	100 kb	0.49	0.51