

## Supplementary materials

Table S1: Root mean squared error (RMSE) and mean absolute error (MAE) values when predicting selection coefficient ( $s$ ), initial frequency ( $f$ ), and time of selection ( $T_{\text{sel}}$ ) for YRI and CEU populations. The values show RMSE and MAE measured between standardized log-scaled predicted and actual parameters in simulated data.

Population	RMSE( $s$ )	RMSE( $f$ )	RMSE( $T_{\text{sel}}$ )	MAE( $s$ )	MAE( $f$ )	MAE( $T_{\text{sel}}$ )
CEU	0.91	0.98	0.67	0.73	0.78	0.54
YRI	0.95	0.96	0.76	0.76	0.75	0.55