Table S2: Binomial logistic regression results for all genes from a range of datasets, including all predictors, both ignoring and considering $BS \ge 70\%$ support. Parameters are not transformed i.e. they represent the estimated ceteris paribus effect of the predictor on log odds. Quantities in brackets are standard errors.

	Dependent variable: Total Concordant/Total Discordant										
	FSA cln AA	FSA cln AA	FSA cln nuc	FSA cln nuc	MAFFT AA	MAFFT AA	MAFFT nuc	MAFFT nuc	WAG	WAG	
		$BS \ge 70$		$\mathrm{BS} \geq 70$		$BS \geq 70$		$BS \geq 70$		$BS \geq 70$	
alignment_length	0.001***	0.001***	0.001***	0.001***	0.001***	0.001***	0.0003***	0.0004***	0.0002***	0.0002***	
	(0.0001)	(0.0001)	(0.00004)	(0.00004)	(0.0001)	(0.0001)	(0.00003)	(0.00003)	(0.00004)	(0.00004)	
tree_length	0.539***	0.746***	1.124***	1.350***	0.680***	0.702***	0.925***	1.390***	0.616***	0.736***	
	(0.049)	(0.070)	(0.103)	(0.122)	(0.042)	(0.049)	(0.085)	(0.115)	(0.051)	(0.075)	
variance	-39.588***	-106.125***	-245.838***	-374.209***	-62.247***	-63.180***	-145.851***	-371.749***	-53.085***	-99.388***	
	(7.572)	(13.084)	(32.927)	(38.174)	(3.966)	(4.486)	(17.464)	(33.871)	(8.321)	(15.877)	
Constant	-2.238***	-3.261***	-1.738***	-2.852***	-2.427***	-3.468***	-1.489***	-2.721***	-2.062***	-2.982***	
	(0.073)	(0.102)	(0.102)	(0.129)	(0.077)	(0.107)	(0.095)	(0.124)	(0.070)	(0.096)	
Observations	79	79	79	79	79	79	79	79	79	79	
Log Likelihood	-319.263	-201.664	-283.221	-246.157	-281.726	-184.137	-348.941	-280.545	-345.767	-233.138	
Akaike Inf. Crit.	646.526	411.327	574.443	500.313	571.451	376.274	705.883	569.090	699.535	474.275	

N7 /	*	**
Note:	*p<0.1;	1

<0.1; **p<0.05; ***p<0.01