

Supporting Table S3: *p*-values of neutrality tests in the domesticated sample for each simulated demographic scenario. Those scenarios rejected according to their likelihood scores are in italics.

			p-value for Tajima's D (in %)						p-value for Fu & Li's F* (in %)						p-value for Fu's Fs (in %)						
			PgTb1 upstream	PgTb1 mRNA	PgTb1 downstream	STS 713	STS 738	STS 476	PgTb1 upstream	PgTb1 mRNA	PgTb1 downstream	STS 713	STS 738	STS 476	PgTb1 upstream	PgTb1 mRNA	PgTb1 downstream	STS 713	STS 738	STS 476	
Weak expansion (N0/N2 = 1)	Intense bottleneck (N1/N2 = 5e-4)	Long bottleneck (500y)	u weak Model 1	0.11	0.15	< 0.01	5.3	51.8	51.3	0.39	0.06	< 0.01	5.1	29.3	44.8	0.24	0.04	< 0.01	3.08	34.00	7.40
			u average Model 2	0.08	0.12	0.03	5.2	51.7	49.1	0.35	0.07	0.01	5.2	28.2	41.1	0.20	0.02	< 0.01	2.84	33.02	6.14
			u strong Model 3	0.14	0.07	< 0.01	4.4	48.3	33.3	0.34	0.06	0.01	4.3	24.7	22.3	0.02	< 0.01	< 0.01	0.91	23.45	0.87
		Short bottleneck (100y)	u weak Model 4	0.06	0.11	0.01	5.6	51.4	51.6	0.29	0.07	< 0.01	5.4	28.3	44.7	0.22	0.05	< 0.01	3.17	34.07	7.54
			u average Model 5	0.12	0.12	< 0.01	5.5	51.2	50.8	0.35	0.11	0.01	5.4	28.7	43.8	0.11	0.01	< 0.01	3.00	33.15	7.12
			u strong Model 6	0.09	0.05	< 0.01	5.2	50.8	47.4	0.25	0.06	< 0.01	5.3	27.9	38.4	0.16	0.05	< 0.01	2.42	31.42	5.15
	Average bottleneck (N1/N2 = 5e-3)	Long bottleneck (500y)	u weak Model 7	0.1	0.06	< 0.01	5.3	52	51.3	0.33	0.05	< 0.01	5.3	28.4	45	0.13	0.02	< 0.01	3.06	34.25	7.75
			u average Model 8	0.13	0.1	< 0.01	5.4	51.5	50.8	0.41	0.06	< 0.01	5.4	28.8	44.4	0.20	0.05	< 0.01	2.73	33.64	7.47
			u strong Model 9	0.09	0.07	0.01	5.6	51.1	49.7	0.3	0.08	< 0.01	5.4	28.4	41.2	0.14	0.03	< 0.01	2.59	32.68	6.13
		Short bottleneck (100y)	u weak Model 10	0.11	0.11	< 0.01	5.4	50.9	51.3	0.28	0.08	< 0.01	5.3	28.2	44.6	0.18	0.04	< 0.01	3.24	32.85	7.20
			u average Model 11	0.18	0.09	0.02	5.7	51.8	52	0.38	0.07	< 0.01	5.4	28.6	45	0.17	0.03	< 0.01	3.52	33.60	7.72
			u strong Model 12	0.04	0.09	0.01	5.4	51.1	51.4	0.23	0.05	< 0.01	4.9	28.7	43.6	0.18	0.05	< 0.01	3.06	33.82	6.89
Average expansion (N0/N2 = 10)	Intense bottleneck (N1/N2 = 5e-4)	Long bottleneck (500y)	u weak Model 13	0.13	0.05	0.02	5.7	51.5	50.9	0.31	0.03	< 0.01	5.6	28.4	45	0.19	0.11	< 0.01	3.02	33.02	7.52
			u average Model 14	0.06	0.08	< 0.01	5.4	50.7	51.6	0.2	0.08	< 0.01	5.3	28	44.6	0.27	0.04	< 0.01	2.86	33.59	7.08
			u strong Model 15	0.09	0.09	0.02	5.3	51.3	51.1	0.32	0.08	< 0.01	5.1	28.7	44.2	0.21	0.04	< 0.01	2.96	32.79	7.33
		Short bottleneck (100y)	u weak Model 16	0.11	0.11	< 0.01	5.3	52	50.7	0.25	0.07	< 0.01	5.2	28.6	44.1	0.24	0.03	< 0.01	3.01	33.52	7.55
			u average Model 17	0.09	0.08	0.01	5.4	51.3	51.1	0.37	0.08	< 0.01	5.3	28	44.7	0.09	0.01	< 0.01	2.94	33.79	7.45
			u strong Model 18	0.12	0.09	0.01	5.4	52.1	51.1	0.31	0.06	< 0.01	5.3	29.4	44.7	0.21	0.06	< 0.01	2.91	33.94	7.50
	Average bottleneck (N1/N2 = 5e-3)	Long bottleneck (500y)	u weak Model 19	0.13	0.07	< 0.01	5.1	51.5	48.9	0.34	0.06	< 0.01	5.1	28.3	40.9	0.27	0.02	< 0.01	2.68	32.58	5.91
			u average Model 20	0.11	0.08	< 0.01	4.2	48.1	32.7	0.28	0.08	< 0.01	4	25.6	21.7	0.02	0.01	< 0.01	0.91	23.99	0.86
			u strong Model 21	0.09	0.11	< 0.01	3.9	29	27.8	0.22	0.1	< 0.01	4.6	14.2	18.5	< 0.01	< 0.01	< 0.01	0.23	5.80	
		Short bottleneck (100y)	u weak Model 22	0.11	0.08	0.01	5.3	51.4	50.7	0.39	0.09	< 0.01	5.1	28.1	44.6	0.16	0.03	< 0.01	2.78	33.40	7.15
			u average Model 23	0.05	0.11	< 0.01	5	51	46.3	0.3	0.09	< 0.01	5	28	37.3	0.10	0.03	< 0.01	2.38	31.60	5.08
			u strong Model 24	0.08	0.07	0.03	4.4	44.7	25.7	0.24	0.04	0.02	4.5	22.4	16.9	0.00	< 0.01	< 0.01	0.31	15.66	0.27
Large expansion (N0/N2 = 100)	Intense bottleneck (N1/N2 = 5e-4)	Long bottleneck (500y)	u weak Model 25	0.09	0.1	< 0.01	5.3	51.1	50.6	0.33	0.03	0.01	5.1	28.3	44.3	0.26	0.01	< 0.01	2.86	33.48	7.01
			u average Model 26	0.11	0.07	0.01	5.7	51.2	48.5	0.28	0.04	< 0.01	5.8	27.9	40.5	0.15	0.03	< 0.01	2.62	32.48	5.78
			u strong Model 27	0.05	0.05	0.03	4.5	48.3	34	0.19	0.03	0.01	4.7	25.3	24.1	0.03	< 0.01	< 0.01	0.94	23.92	1.20
		Short bottleneck (100y)	u weak Model 28	0.07	0.09	0.02	5.1	52.4	51.3	0.26	0.09	0.01	4.9	29.1	45	0.25	0.05	< 0.01	3.04	33.52	7.24
			u average Model 29	0.12	0.12	0.01	5.7	50.9	50.9	0.28	0.08	0.01	5.5	28.5	43.9	0.19	0.04	< 0.01	3.13	32.51	7.16
			u strong Model 30	0.03	0.13	0.01	5.3	50.3	47.5	0.22	0.08	< 0.01	5.3	27.5	38.8	0.18	0.02	< 0.01	2.68	31.62	5.29
	Weak bottleneck (N1/N2 = 5e-2)	Long bottleneck (500y)	u weak Model 31	0.09	0.07	< 0.01	5.5	51.2	52.2	0.27	0.04	< 0.01	5.5	28.6	45.9	0.25	0.08	< 0.01	3.04	33.75	7.40
			u average Model 32	0.12	0.1	0.01	5.4	52.1	52.4	0.27	0.09	< 0.01	5.4	29.2	45.1	0.26	0.01	< 0.01	2.94	34.27	7.47
			u strong Model 33	0.1	0.04	< 0.01	5.7	51.2	50.2	0.3	0.03	< 0.01	5.5	28.4	43.3	0.23	0.02	< 0.01	2.68	32.63	6.57
		Short bottleneck (100y)	u weak Model 34	0.11	0.12	< 0.01	5.5	51.1	51.8	0.3	0.07	< 0.01	5.5	28.4	45.4	0.22	0.04	< 0.01	3.04	33.17	7.20
			u average Model 35	0.12	0.12	0.02	5.7	51.7	51	0.34	0.04	0.02	5.3	28.8	44.9	0.21	0.05	< 0.01	3.16	33.46	7.00
			u strong Model 36	0.1	0.12	< 0.01	5.4	51.9	51.6	0.41	0.07	< 0.01	5	29	46.5	0.17	0.06	< 0.01	3.07	34.65	7.86