

Appendix 5. Model-selection information for the 225 data sets that remained after gaps and ambiguous characters were removed from each alignment. Data sets with no model-selection information contained 50 or few characters after unwanted characters were removed and were not included in the analysis. Redundant haplotypes were collapsed after taking out gaps and ambiguous characters; consequently, the number of haplotypes may differ from the full data sets. Model selection was again based on the hLRT, AIC_c, BIC, and DT methods. The difference in model parameters was free to vary between 0 and 10. The least parameter-rich model(s) for each data set are given in bold type.

Data Set	1	2	3
TreeBASE ID	S1266/M2209	S685/M1075	S388/M542
Haplotypes	5	9	59
Characters	608	1184	607
P-distance	0.2 – 14.1%	1.2 – 10.1%	0.2 – 7.4%
hLRT	HKY+Γ	TrN+Γ	TVM+Γ
AIC _c	GTR+Γ	GTR+I+Γ	GTR+Γ
BIC	TVM	TrN+Γ	TVM+Γ
DT	TVM	TrN+Γ	TVM+Γ
Models	3	2	2
Δ k	4	4	1

Data Set	4	5	6
TreeBASE ID	S904/M1486	S631/M977	S1067/M1819
Haplotypes	52	36	6
Characters	478	359	754
P-distance	0.8 – 19.0%	0.3 – 17.8%	0.4 – 6.8%
hLRT	F81+I+Γ	TrNef+Γ	HKY
AIC _c	GTR+I+Γ	TrNef+Γ	GTR

BIC	GTR+I+Γ	TrNef+Γ	HKY
DT	TrN+I+Γ	TrNef+Γ	HKY
Models	3	1	2
Δ k	5	0	4
Data Set	7	8	9

TreeBASE ID	S769/M1216	S1038/M1767	S320/M391
Haplotypes	59	13	17
Characters	648	474	2279
P-distance	0.2 – 29.9%	0.2 – 21.1%	2.7 – 16.1%
hLRT	TrN+Γ	K2P+Γ	GTR+I+Γ
AIC _c	TVM+I+Γ	TVMef+Γ	GTR+I+Γ
BIC	HKY+Γ	K2P+Γ	GTR+I+Γ
DT	HKY+Γ	K2P+Γ	GTR+I+Γ
Models	3	2	1
Δ k	4	3	0

Data Set	10	11	12
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TreeBASE ID	S430/M630	S981/M1631	S869/M1410
Haplotypes	9	92	16
Characters	475	745	317
P-distance	0.2 – 40.4%	0.3 – 16.6%	0.3 – 13.6%
hLRT	HKY+Γ	K3Puf+Γ	K3P+Γ
AIC _c	TrN+Γ	GTR+Γ	K3Puf+I+Γ
BIC	K2P+Γ	TVMef+Γ	K3P+Γ
DT	K2P+Γ	TVMef+Γ	K3P+Γ
Models	3	3	2

Δk	4	4	4
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Data Set	13	14	15
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TreeBASE ID	S927/M1533	S1120/M1917	S1123/M1924
Haplotypes	28	23	30
Characters	1644	1770	4114
P-distance	0.1 – 10.4%	1.4 – 17.3%	0.9 – 12.3%
hLRT	TrN+I+Γ	TVM+Γ	TVM+I+Γ
AIC _c	TIM+I+ Γ	GTR+ Γ	TVM+I+Γ
BIC	TrN+I+Γ	TVM+Γ	TVM+I+Γ
DT	TrN+I+Γ	TVM+Γ	TVM+I+Γ
Models	2	2	1
Δk	1	1	0

Data Set	16	17	18
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TreeBASE ID	S662/M1038	S736/M1168	S756/M1194
Haplotypes	122	22	35
Characters	94	476	431
P-distance	1.1 – 25.5%	0.2 – 21.6%	0.7 – 27.4%
hLRT	TrNef+ Γ	TrN+Γ	TrN+Γ
AIC _c	TrNef+I+ Γ	TIM+I+ Γ	TrN+Γ
BIC	TrNef+ Γ	TrN+Γ	TrN+Γ
DT	K2P+Γ	TrN+Γ	TrN+Γ
Models	3	2	1
Δk	2	2	0

Data Set	19	20	21
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TreeBASE ID	S644/M1001	S1213/M2099	S1078/M1849
Haplotypes	93	38	28
Characters	879	747	997
P-distance	0.3 – 20.6%	0.1 – 6.8%	0.4 – 8.8%
hLRT	TIM+I+Γ	TIM+I+Γ	TrN+I+Γ
AIC _c	GTR+I+Γ	GTR+I+Γ	TrN+I+Γ
BIC	TIM+I+Γ	TIM+I+Γ	TrNef+I+Γ
DT	TIM+I+Γ	TIM+I+Γ	TrNef+I+Γ
Models	2	2	2
Δ k	2	2	3

Data Set	22	23	24
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TreeBASE ID	S3x27x98c12c26c10/ M186c3x27x33c47	S1234/M2146	S1112/M1902
Haplotypes	55	15	200
Characters	1146	2253	422
P-distance	0.3 – 32.5%	1.1 – 17.2%	0.2 – 18.5%
hLRT	TrN+I+Γ	TrNef+I+Γ	TrN+I+Γ
AIC _c	GTR+I+Γ	GTR+I+Γ	GTR+I+Γ
BIC	TrN+I+Γ	SYM+I+Γ	GTR+I+Γ
DT	TrN+I+Γ	SYM+I+Γ	GTR+I+Γ
Models	2	3	2
Δ k	3	6	3

Data Set	25	26	27
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TreeBASE ID	S1316/M2309	S426/M620	S808/M1278
Haplotypes	32	-	85

Characters	2220	-	449
P-distance	0 – 13.8%	-	0.2 – 13.4%
hLRT	TrN+I+Γ	-	TVM+I+Γ
AIC _c	TrN+I+Γ	-	TVM+I+Γ
BIC	HKY+I+Γ	-	TVM+I+Γ
DT	TrN+I+Γ	-	TVM+I+Γ
Models	2	-	1
Δ k	1	-	0

Data Set	28	29	30
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TreeBASE ID	S1088/M1862	S498/M725	S1096/M1874
Haplotypes	17	38	34
Characters	842	297	1140
P-distance	0.1 – 4.0%	9.4 – 42.8%	1.2 – 20.3%
hLRT	HKY	TrN+I+Γ	TrN+I+Γ
AIC _c	TVM+Γ	TIM+I+Γ	GTR+I+Γ
BIC	HKY	TrN+I+Γ	HKY+I+Γ
DT	HKY	TrN+I+Γ	HKY+I+Γ
Models	2	2	3
Δ k	4	1	4

Data Set	31	32	33
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TreeBASE ID	S1315/M2308	S725/M1156	S259/M299
Haplotypes	26	30	40
Characters	2082	1015	872
P-distance	1.2 – 15.4%	0.1 – 6.4%	0.2 – 11.4%
hLRT	TrN+I+Γ	HKY+I+Γ	TrNef+I+Γ

AIC _c	TIM+I+Γ	HKY+I+Γ	GTR+I+Γ
BIC	TrN+I+Γ	K2P+I+Γ	TrNef+I+Γ
DT	TrN+I+Γ	K2P+I+Γ	TrNef+I+Γ
Models	2	2	2
Δ k	1	3	6

Data Set	34	35	36
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TreeBASE ID	S1069/M1823	S1095/M1873	S771/M1220
Haplotypes	34	38	14
Characters	420	3384	523
P-distance	0.2 – 16.2%	0.3 – 19.6%	0.2 – 10.1%
hLRT	TrNef+Γ	GTR+I+Γ	TVM+Γ
AIC _c	TrN+I	GTR+I+Γ	TVM+Γ
BIC	TrNef+Γ	GTR+I+Γ	K3Puf+Γ
DT	TrNef+Γ	GTR+I+Γ	K3Puf+Γ
Models	2	1	2
Δ k	3	0	2

Data Set	37	38	39
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TreeBASE ID	S428/M626	S553/M824	S1178/M2038
Haplotypes	7	41	-
Characters	949	587	-
P-distance	0.1 – 16.1%	0.2 – 14.5%	-
hLRT	HKY+Γ	K2P+Γ	-
AIC _c	HKY+I	TrN+Γ	-
BIC	HKY+I	K2P+Γ	-
DT	HKY+I	K2P+Γ	-

Models	2	2	-
Δk	0	4	-

Data Set	40	41	42
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TreeBASE ID	S911/M1509	S570/M863	S724/M1155
Haplotypes	48	101	8
Characters	307	93	1233
P-distance	0.3 – 22.1%	1.1 – 31.2%	0.1 – 5.1%
hLRT	TrNef+I+ Γ	TrN+I+ Γ	HKY
AIC _c	SYM+I+ Γ	TVM+I+ Γ	GTR
BIC	TrNef+I+ Γ	HKY+I+Γ	K2P
DT	TrNef+Γ	HKY+I+Γ	K2P
Models	3	3	3
Δk	4	3	7

Data Set	43	44	45
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TreeBASE ID	S890/M1452	S390/M545	S693/M1102
Haplotypes	26	15	12
Characters	1953	590	380
P-distance	0.1 – 3.8%	0.2 – 24.9%	0.3 – 28.2%
hLRT	K3Puf+I+ Γ	TVM+I+ Γ	TrN+ Γ
AIC _c	TIM+I+ Γ	TIM+I+ Γ	SYM+ Γ
BIC	K3Puf+I	K3Puf+I+Γ	TrNef+Γ
DT	K3Puf+I	TIM+I+ Γ	TrNef+Γ
Models	3	3	3
Δk	2	2	3

Data Set	46	47	48
TreeBASE ID	S1243/M2167	S425/M619	S1304/M2284
Haplotypes	37	35	27
Characters	203	574	1527
P-distance	0.5 – 14.3%	0.2 – 14.3%	0.1 – 8.8%
hLRT	TrNef+Γ	GTR+Γ	HKY+Γ
AIC _c	GTR+Γ	GTR+Γ	TVM+I
BIC	TrN+Γ	GTR+Γ	HKY+I
DT	TrN+Γ	GTR+Γ	HKY+I
Models	3	1	3
Δ k	6	0	3

Data Set	49	50	51
TreeBASE ID	S3x10x98c09c42c47/ M184c3x2x98c11c12c31	S333/M425	S1262/M2204
Haplotypes	30	26	24
Characters	285	356	1230
P-distance	2.8 – 41.8%	0.6 – 16.6%	0.1 – 2.3%
hLRT	HKY+Γ	TVM+I+Γ	HKY+Γ
AIC _c	TVM+Γ	K3Puf+I+Γ	GTR+I
BIC	TVM+Γ	HKY+I+Γ	HKY+I
DT	TVM+Γ	HKY+I+Γ	HKY+I
Models	2	3	3
Δ k	3	3	4

Data Set	52	53	54
TreeBASE ID	S2x14x97c16c11c45/ M165c2x14xM165c2x14x	S659/M1034	S711/M1134

Haplotypes	34	62	57
Characters	297	1353	1268
P-distance	0.7 – 20.2%	0.1 – 8.5%	0.5 – 25.7%
hLRT	TrNef+Γ	TrNef+I+Γ	GTR+I+Γ
AIC _c	GTR+I+Γ	TrN+I+Γ	GTR+I+Γ
BIC	GTR+Γ	TrNef+I+Γ	TVM+I+Γ
DT	GTR+Γ	TrNef+I+Γ	TVM+I+Γ
Models	3	2	2
Δ k	7	3	1

Data Set	55	56	57
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TreeBASE ID	S1302/M2281	S679/M1064	S712/M1135
Haplotypes	41	40	46
Characters	867	7259	1547
P-distance	1.3 – 39.8%	0.2 – 8.3%	0.3 – 13.0%
hLRT	TrN+I+Γ	GTR+I+Γ	TrNef+I+Γ
AIC _c	GTR+I+Γ	GTR+I+Γ	TrN+I+Γ
BIC	GTR+I+Γ	GTR+I+Γ	TrN+I+Γ
DT	GTR+I+Γ	GTR+I+Γ	TrN+I+Γ
Models	2	1	2
Δ k	3	0	3

Data Set	58	59	60
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TreeBASE ID	S367/M502	S322/M401	S1046/M1782
Haplotypes	18	19	36
Characters	337	466	2774
P-distance	1.5 – 20.2%	3.2 – 32.0%	0.4 – 7.9%

hLRT	JC+Γ	TrN+Γ	TVM+I+Γ
AIC _c	K3Puf+Γ	TVM+Γ	TVM+I+Γ
BIC	F81+Γ	TVMef+Γ	TVM+I+Γ
DT	F81+Γ	TVMef+Γ	TVM+I+Γ
Models	3	3	1
Δ k	5	3	0

Data Set	61	62	63
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TreeBASE ID	S529/M777	S1217/M2104	S400/M568
Haplotypes	17	-	47
Characters	1521	-	800
P-distance	0 – 4.9%	-	0.1 – 14.3%
hLRT	GTR+I+Γ	-	TrNef+I+Γ
AIC _c	GTR+I+Γ	-	GTR+I+Γ
BIC	TIM+Γ	-	TrNef+I+Γ
DT	TIM+Γ	-	TrNef+I+Γ
Models	2	-	2
Δ k	3	-	6

Data Set	64	65	66
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TreeBASE ID	S958/M1589	S964/M1596	S522/M760
Haplotypes	50	18	20
Characters	1271	457	350
P-distance	0.2 – 14.1%	0.2 – 29.1%	0.9 – 42.9%
hLRT	TrN+I+Γ	HKY+Γ	TrN+I+Γ
AIC _c	GTR+I+Γ	K3Puf+I+Γ	HKY+I+Γ
BIC	GTR+I+Γ	K3Puf+Γ	TrNef+I+Γ

DT	GTR+I+ Γ	K3Puf+ Γ	TrNef+I+Γ
Models	2	3	3
Δk	3	2	3

Data Set	67	68	69
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TreeBASE ID	S967/M1604	S608/M935	S385/M537
Haplotypes	12	42	18
Characters	1381	504	674
P-distance	0.1 – 3.5%	0.2 – 18.7%	0.1 – 17.1%
hLRT	HKY	K3Puf+Γ	TrN+ Γ
AIC _c	K3Puf	TIM+I+ Γ	TrN+I+ Γ
BIC	HKY	K3Puf+Γ	HKY+Γ
DT	HKY	K3Puf+Γ	HKY+Γ
Models	2	2	2
Δk	1	2	2

Data Set	70	71	72
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TreeBASE ID	S6x22x97c14c38c41/ M170c6x22x97c14c48c20	S1000/M1688	S1227/M2133
Haplotypes	9	-	-
Characters	674	-	-
P-distance	1.8 – 12.5%	-	-
hLRT	TIM+I+ Γ	-	-
AIC _c	GTR+I+ Γ	-	-
BIC	TIM+Γ	-	-
DT	TIM+Γ	-	-
Models	3	-	-
Δk	3	-	-

Data Set	73	74	75
TreeBASE ID	S440/M647	S1212/M2098	S463/M676
Haplotypes	30	35	9
Characters	393	480	843
P-distance	0.3 – 14.5%	0.6 – 15.0%	3.9 – 12.9%
hLRT	K2P+I+Γ	TVM+Γ	TrN+I+Γ
AIC _c	TrN+I+Γ	TVM+Γ	GTR+I+Γ
BIC	K2P+I+Γ	TVM+Γ	TrN+I+Γ
DT	K2P+I+Γ	TVM+Γ	TrN+I+Γ
Models	2	1	2
Δ k	4	0	3

Data Set	76	77	78
TreeBASE ID	S990/M1650	S1013/M1709	S560/M847
Haplotypes	11	125	22
Characters	601	303	735
P-distance	0.8 – 21.5%	0.3 – 14.9%	0.3 – 25.3%
hLRT	TrNef+Γ	TIM+I+Γ	GTR+I+Γ
AIC _c	TrN+I+Γ	TVM+I+Γ	GTR+I+Γ
BIC	TrNef+Γ	TVM+Γ	HKY+I+Γ
DT	TrNef+Γ	TVM+Γ	TrN+I+Γ
Models	2	3	3
Δ k	4	1	4

Data Set	79	80	81
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TreeBASE ID	S1053/M1794	S980/M1630	S548/M808
Haplotypes	29	162	-
Characters	1920	339	-
P-distance	0.2 – 8.7%	0.3 – 30.1%	-
hLRT	TrNef+I+Γ	GTR+I+Γ	-
AIC _c	GTR+I+Γ	GTR+I+Γ	-
BIC	SYM+I+Γ	TVM+I+Γ	-
DT	SYM+I+Γ	TVM+I+Γ	-
Models	3	2	-
Δ k	6	1	-

Data Set	82	83	84
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TreeBASE ID	S1186/M2053	S605/M929	S1099/M1881
Haplotypes	64	64	65
Characters	1764	383	312
P-distance	0.1 – 18.1%	0.3 – 15.9%	0.3 – 19.2%
hLRT	GTR+I+Γ	TIM+I+Γ	TrNef+I+Γ
AIC _c	GTR+I+Γ	TIMEf+I+Γ	SYM+I+Γ
BIC	GTR+I+Γ	K3P+I+Γ	SYM+I+Γ
DT	GTR+I+Γ	K3P+I+Γ	SYM+I+Γ
Models	1	3	2
Δ k	0	4	3

Data Set	85	86	87
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TreeBASE ID	S945/M1568	S436/M641	S489/M714
Haplotypes	-	16	9
Characters	-	707	638

P-distance	-	0.1 – 8.2%	0.2 – 8.5%
hLRT	-	HKY+I+Γ	TVMef+Γ
AIC _c	-	TrN+I+Γ	TVM+I
BIC	-	TrNef+I	TVMef+I
DT	-	TrNef+I	TVMef+Γ
Models	-	3	3
Δ k	-	4	3

Data Set	88	89	90
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TreeBASE ID	S413/M603	S1192/M2059	S1313/M2305
Haplotypes	7	-	24
Characters	2024	-	2190
P-distance	3.0 – 12.4%	-	0 – 8.5%
hLRT	TrN+Γ	-	TrN+I+Γ
AIC _c	TIM+I+Γ	-	TrN+I+Γ
BIC	TIM+Γ	-	TrNef+I+Γ
DT	TIM+Γ	-	TrNef+I+Γ
Models	3	-	2
Δ k	2	-	3

Data Set	91	92	93
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TreeBASE ID	S472/M688	S1030/M1749	S1036/M1760
Haplotypes	-	73	49
Characters	-	648	568
P-distance	-	0.2 – 13.7%	0 – 14.8%
hLRT	-	TrN+Γ	TVM+I+Γ
AIC _c	-	TrN+I+Γ	GTR+I+Γ

BIC	-	TrN+Γ	K3Puf+I+Γ
DT	-	TrN+Γ	K3Puf+I+Γ
Models	-	2	3
Δ k	-	1	3

Data Set	94	95	96
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TreeBASE ID	S432/M636	S578/M872	S804/M1270
Haplotypes	55	-	29
Characters	1058	-	1631
P-distance	3.8 – 31.9%	-	0.1 – 9.2%
hLRT	GTR+I+Γ	-	TrNef+I+Γ
AIC _c	GTR+I+Γ	-	TrN+I+Γ
BIC	GTR+I+Γ	-	TrNef+I+Γ
DT	GTR+I+Γ	-	TrNef+I+Γ
Models	1	-	2
Δ k	0	-	3

Data Set	97	98	99
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TreeBASE ID	S821/M1318	S568/M861	S1051/M1792
Haplotypes	50	21	14
Characters	583	876	1466
P-distance	0.2 – 13.2%	0.6 – 15.9%	1.1 – 18.5%
hLRT	TrNef+Γ	GTR+Γ	GTR+I+Γ
AIC _c	SYM+I+Γ	TIM+I+Γ	GTR+I+Γ
BIC	TrNef+Γ	HKY+Γ	GTR+I+Γ
DT	TrNef+Γ	HKY+Γ	GTR+I+Γ
Models	2	3	1

Δk	4	4	0
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Data Set	100	101	102
TreeBASE ID	S11x6x95c10c11c33/ M58c11x6x95c10c13c27	S1094/M1869	S777/M1232
Haplotypes	11	14	41
Characters	651	6155	487
P-distance	0.3 - 17.5%	2.0 – 25.0%	0.2 – 13.6%
hLRT	TrNef+ Γ	TrN+I+Γ	TrNef+I+Γ
AIC _c	SYM+ Γ	GTR+I+ Γ	TVM+I+ Γ
BIC	K2P+Γ	GTR+I+ Γ	TVMef+I+ Γ
DT	K2P+Γ	GTR+I+ Γ	TVMef+I+ Γ
Models	3	2	3
Δk	4	3	5

Data Set	103	104	105
TreeBASE ID	S421/M615	S916/M1516	S664/M1042
Haplotypes	50	10	44
Characters	1144	1037	1552
P-distance	0.2 – 18.6%	0.1 – 7.3%	0.2 – 11.9%
hLRT	TIMef+I+Γ	HKY	GTR+I+ Γ
AIC _c	TIM+I+ Γ	HKY	GTR+I+ Γ
BIC	TIMef+I+Γ	HKY	GTR+I+ Γ
DT	TIMef+I+Γ	HKY	TrNef+I+Γ
Models	2	1	2
Δk	3	0	6

Data Set	106	107	108
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TreeBASE ID	S1140/M1958	S671/M1053	S584/M880
Haplotypes	31	14	22
Characters	333	268	1021
P-distance	0.3 – 9.0%	0.4 – 17.2%	0.1 – 7.3%
hLRT	TrN+I+ Γ	K2P+Γ	K2P+Γ
AIC _c	HKY+I+Γ	K2P+Γ	TIM+I+ Γ
BIC	HKY+I+Γ	K2P+Γ	K2P+I
DT	HKY+I+Γ	K2P+Γ	K2P+I
Models	2	1	3
Δk	1	0	6

Data Set	109	110	111
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TreeBASE ID	S753/M1189	S533/M780	S375/M515
Haplotypes	-	28	28
Characters	-	520	406
P-distance	-	1.0 – 36.5%	0.2 – 19.2%
hLRT	-	TIM+ Γ	TVM+ Γ
AIC _c	-	K3Puf+I+ Γ	TrN+I+ Γ
BIC	-	HKY+Γ	HKY+Γ
DT	-	HKY+Γ	HKY+Γ
Models	-	3	3
Δk	-	2	3

Data Set	112	113	114
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TreeBASE ID	S1197/M2066	S884/M1435	S1322/M2318
Haplotypes	9	25	132

Characters	873	815	932
P-distance	0.1 – 4.2%	0.2 – 13.6%	0.1 – 6.8%
hLRT	HKY+ Γ	HKY+Γ	GTR+I+ Γ
AIC _c	HKY+I	TVM+ Γ	GTR+I+ Γ
BIC	HKY	HKY+Γ	TIMEf+I+Γ
DT	HKY+I	HKY+Γ	TIMEf+I+Γ
Models	3	2	2
Δk	1	3	5

Data Set	115	116	117
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TreeBASE ID	S941/M1560	S6x23x97c17c57c34/ M171c6x23x97c18c01c10	S557/M837
Haplotypes	73	41	27
Characters	479	869	551
P-distance	0.2 – 7.1%	0.3 – 19.7%	5.4 – 16.7%
hLRT	F81+Γ	GTR+I+Γ	F81+I+Γ
AIC _c	TIM+I+ Γ	GTR+I+Γ	GTR+I+ Γ
BIC	K3Puf+ Γ	GTR+I+Γ	GTR+I+ Γ
DT	K3Puf+ Γ	GTR+I+Γ	GTR+I+ Γ
Models	3	1	2
Δk	4	0	5

Data Set	118	119	120
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TreeBASE ID	S703/M1124	S1089/M1864	S1020/M1727
Haplotypes	94	110	112
Characters	826	1028	2332
P-distance	0.1 – 6.3%	0.1 – 6.0%	0.1 – 30.5%
hLRT	K3Puf+Γ	TVM+Γ	GTR+I+ Γ

AIC _c	TVM+Γ	TVM+I+Γ	TVM+I+Γ
BIC	K3Puf+Γ	TVM+Γ	TVM+I+Γ
DT	K3Puf+Γ	TVM+Γ	TVM+I+Γ
Models	2	2	1
Δ k	2	1	1

Data Set	121	122	123
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TreeBASE ID	S1278/M2234	S1097/M1877	S619/M955
Haplotypes	44	23	18
Characters	1495	593	1324
P-distance	0.1 – 16.9%	0.2 – 5.4%	1.5 – 9.4%
hLRT	TVM+I+Γ	K2P+I+Γ	GTR+I+Γ
AIC _c	TVM+I+Γ	GTR+I+Γ	GTR+I+Γ
BIC	K3Puf+I+Γ	K2P+I	SYM+I+Γ
DT	K3Puf+I+Γ	K2P+I	SYM+I+Γ
Models	2	3	2
Δ k	2	8	3

Data Set	124	125	126
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TreeBASE ID	S902/M1482	S824/M1323	S667/M1048
Haplotypes	23	18	30
Characters	367	902	867
P-distance	0.3 – 11.2%	0.4 – 9.8%	0.5 – 30.7%
hLRT	HKY+I+Γ	TrNef+I+Γ	TrN+Γ
AIC _c	HKY+I+Γ	TrN+I+Γ	TIM+I+Γ
BIC	K2P+I+Γ	TrN+I+Γ	TIM+Γ
DT	K2P+I+Γ	TrNef+I+Γ	TIM+Γ

Models	2	2	3
Δk	3	3	2

Data Set	127	128	129
TreeBASE ID	S700/M1118	S1061/M1811	S731/M1163
Haplotypes	16	15	50
Characters	3003	435	482
P-distance	0.3 – 12.4%	0.2 – 13.3%	0.2 – 18.9%
hLRT	TrN+I+Γ	HKY+Γ	TrN+I+Γ
AIC _c	GTR+I+ Γ	TrN+ Γ	GTR+I+ Γ
BIC	GTR+I+ Γ	HKY+Γ	TrN+I+Γ
DT	GTR+I+ Γ	HKY+I	GTR+I+ Γ
Models	2	3	2
Δk	3	1	3

Data Set	130	131	132
TreeBASE ID	S1307/M2290	S470/M685	S681/M1066
Haplotypes	11	68	-
Characters	458	684	-
P-distance	0.2 – 7.6%	0 – 14.8%	-
hLRT	K3Puf+Γ	GTR+I+Γ	-
AIC _c	TVM+I	GTR+I+Γ	-
BIC	K3Puf+I	GTR+I+Γ	-
DT	K3Puf+Γ	GTR+I+Γ	-
Models	3	1	-
Δk	2	0	-

Data Set	133	134	135
TreeBASE ID	S1052/M1793	S284/M322	S1071/M1827
Haplotypes	84	20	26
Characters	1159	257	821
P-distance	0.2 – 17.7%	7.0 – 42.4%	1.5 – 21.3%
hLRT	TrNef+I+Γ	TIMef+I+Γ	TrN+I+Γ
AIC _c	GTR+I+Γ	TIM+I+Γ	TIM+I+Γ
BIC	TrN+I+Γ	TIMef+I+Γ	TrN+I+Γ
DT	TrN+I+Γ	TIMef+I+Γ	TrN+I+Γ
Models	3	2	2
Δ k	6	3	1

Data Set	136	137	138
TreeBASE ID	S554/M825	S1037/M1765	S816/M1305
Haplotypes	15	17	40
Characters	396	743	663
P-distance	0.5 – 26.0%	0.3 – 4.0%	0.6 – 8.9%
hLRT	TVM+I+Γ	F81+Γ	TrNef+I+Γ
AIC _c	TVM+I+Γ	TIM+Γ	TrN+I+Γ
BIC	TVM+I+Γ	F81+Γ	TrNef+I+Γ
DT	K3Puf+Γ	F81+I	TrNef+I+Γ
Models	2	3	2
Δ k	3	3	3

Data Set	139	140	141
TreeBASE ID	S643/M1000	S669/M1051	S1230/ M2141

Haplotypes	8	13	93
Characters	817	2267	1419
P-distance	0.1 – 9.1%	7.9 – 19.8%	0.1 – 7.6%
hLRT	HKY	GTR+I+Γ	TVM+Γ
AIC _c	TrN+Γ	GTR+I+Γ	TVM+Γ
BIC	HKY	GTR+I+Γ	K3Puf+Γ
DT	TrN	GTR+I+Γ	K3Puf+Γ
Models	4	1	2
Δ k	2	0	2

Data Set	142	143	144
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TreeBASE ID	S647/M1013	S1296/M2273	S397/M565
Haplotypes	54	67	14
Characters	304	623	3326
P-distance	0.3 – 7.6%	0.2 – 8.7%	1.4 – 59.5%
hLRT	TIM+I+Γ	TrNef+Γ	TrN+I+Γ
AIC _c	TIMef+I+Γ	TrNef+Γ	GTR+I+Γ
BIC	TIMef+I+Γ	K2P+Γ	GTR+Γ
DT	TIMef+I+Γ	K2P+Γ	GTR+Γ
Models	2	2	3
Δ k	3	1	3

Data Set	145	146	147
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TreeBASE ID	S404/M584	S997/M1673	S422/M616
Haplotypes	14	-	23
Characters	1693	-	229
P-distance	1.2 – 7.9%	-	2.0 – 19.1%

hLRT	TrNef+I+Γ	-	TVM+Γ
AIC _c	GTR+I+Γ	-	TVM+I+Γ
BIC	TrNef+I+Γ	-	K3Puf+I+Γ
DT	TrNef+I+Γ	-	TVM+Γ
Models	2	-	3
Δ k	6	-	2

Data Set	148	149	150
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TreeBASE ID	S818/M1310	S357/M489	S1177/M2035
Haplotypes	14	21	97
Characters	734	2461	349
P-distance	0.1 – 6.7%	0.2 – 7.8%	0.3 – 27.5%
hLRT	K2P+Γ	TrN+I+Γ	TVM+Γ
AIC _c	TMef+I	TVM+I+Γ	SYM+Γ
BIC	K2P+I	TMef+I+Γ	TMef+Γ
DT	K2P+Γ	TMef+I+Γ	TMef+Γ
Models	3	3	3
Δ k	2	3	3

Data Set	151	152	153
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TreeBASE ID	S726/M1157	S351/M468	S971/M1612
Haplotypes	10	90	12
Characters	530	1143	2565
P-distance	0.2 – 18.5%	0 – 17.7%	0 – 1.2%
hLRT	HKY+Γ	GTR+I+Γ	F81
AIC _c	TVM+Γ	TVM+I+Γ	TIM
BIC	TVM+Γ	HKY+I+Γ	F81

DT	HKY+Γ	HKY+I+Γ	F81
Models	2	3	2
Δ k	3	4	3

Data Set	154	155	156
TreeBASE ID	S1006/M1698	S1057/M1802	S658/M1032
Haplotypes	36	19	7
Characters	1578	2353	226
P-distance	0.1 – 10.6%	0.2 – 12.0%	0.4 – 11.5%
hLRT	TrNef+I+Γ	GTR+I+Γ	F81
AIC _c	GTR+I+Γ	GTR+I+Γ	F81
BIC	K2P+I+Γ	GTR+I+Γ	F81
DT	K3P+I	GTR+I+Γ	F81
Models	4	1	1
Δ k	7	0	0

Data Set	157	158	159
TreeBASE ID	S657/M1031	S1180/M2041	S1090/M1865
Haplotypes	12	39	9
Characters	2974	1680	1806
P-distance	0.6 – 5.7%	0.1 – 8.9%	0.1 – 5.0%
hLRT	TrN+I+Γ	GTR+I+Γ	K2P+I
AIC _c	GTR+I+Γ	GTR+I+Γ	SYM+I
BIC	GTR+I	TIM+I+Γ	K2P+I
DT	GTR+I	TIM+I+Γ	K2P+I
Models	3	2	2
Δ k	3	2	4

Data Set	160	161	162
TreeBASE ID	S466/M680	S799/M1265	S757/M1197
Haplotypes	12	38	61
Characters	532	360	76
P-distance	5.5 – 15.4%	0.3 – 13.9%	1.3 – 14.5%
hLRT	GTR+ Γ	HKY+Γ	TrNef+ Γ
AIC _c	GTR+ Γ	TVM+I+ Γ	TIMEf+ Γ
BIC	TIM+Γ	TVMef+Γ	K2P+Γ
DT	TIM+Γ	TVMef+Γ	K2P+Γ
Models	2	3	3
Δk	2	4	2

Data Set	163	164	165
TreeBASE ID	S928/M1538	S1023/M1734	S1229/M2139
Haplotypes	71	-	25
Characters	551	-	288
P-distance	0.2 – 24.5%	-	0.3 – 2.1%
hLRT	TrN+I+ Γ	-	HKY
AIC _c	GTR+I+ Γ	-	HKY+I
BIC	TrNef+I+Γ	-	HKY
DT	TrNef+I+Γ	-	HKY+ Γ
Models	3	-	3
Δk	6	-	1

Data Set	166	167	168
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TreeBASE ID	S305/M347	S1161/M1998	S414/M604
Haplotypes	38	26	5
Characters	1062	507	254
P-distance	0.1 – 14.2%	0.2 – 31.4%	0.8 – 7.9%
hLRT	TrNef+I+Γ	TrNef+I+Γ	HKY
AIC _c	GTR+I+Γ	TrNef+I+Γ	HKY
BIC	GTR+I+Γ	K2P+I+Γ	HKY
DT	GTR+I+Γ	TrNef+Γ	HKY
Models	2	3	1
Δ k	6	1	0

Data Set	169	170	171
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TreeBASE ID	S1059/M1806	S969/M1606	S1125/M1928
Haplotypes	32	53	14
Characters	795	195	974
p-distance	0 – 15.6%	0.5 – 9.7%	0.1 – 26.0%
hLRT	TrN+I+Γ	K3Puf	TrNef+Γ
AIC _c	GTR+I+Γ	K3Puf+Γ	TrN+Γ
BIC	TrNef+I+Γ	K3Puf	TrNef+Γ
DT	TrNef+I+Γ	K3Puf+I	TrNef+Γ
Models	3	3	2
Δ k	6	1	3

Data Set	172	173	174
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TreeBASE ID	S1301/M2279	S543/M801	S1041/M1775
Haplotypes	60	34	96
Characters	1657	4321	219

P-distance	0.7 – 30.7%	2.0 – 18.9%	0.5 – 25.1%
hLRT	HKY+I+Γ	GTR+I+Γ	HKY+Γ
AIC _c	K3Puf+I+Γ	GTR+I+Γ	HKY+Γ
BIC	K3Puf+I+Γ	GTR+I+Γ	HKY+Γ
DT	K3Puf+I+Γ	GTR+I+Γ	HKY+Γ
Models	2	1	1
Δ k	1	0	0

Data Set	175	176	177
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TreeBASE ID	S701/M1119	S887/M1438	S1199/M2068
Haplotypes	11	30	50
Characters	1091	422	657
P-distance	0.1 – 12.4%	0.2 – 7.1%	0.2 – 13.2%
hLRT	TVM+Γ	HKY+I+Γ	HKY+Γ
AIC _c	TVM+I	TVM+I+Γ	TVM+Γ
BIC	K3Puf+I	HKY+I+Γ	HKY+Γ
DT	K3Puf+I	HKY+I+Γ	HKY+Γ
Models	3	2	2
Δ k	2	3	3

Data Set	178	179	180
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TreeBASE ID	S655/M1029	S709/M1131	S1028/M1746
Haplotypes	78	-	16
Characters	1054	-	1166
P-distance	0.8 – 29.8%	-	0.3 – 19.8%
hLRT	TrN+I+Γ	-	HKY+Γ
AIC _c	GTR+I+Γ	-	HKY+Γ

BIC	GTR+I+Γ	-	HKY+Γ
DT	GTR+I+Γ	-	HKY+Γ
Models	2	-	1
Δ k	3	-	0

Data Set	181	182	183
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TreeBASE ID	S833/M1334	S672/M1054	S331/M433
Haplotypes	29	18	5
Characters	1585	470	471
P-distance	0.1 – 10.1%	0.2 – 30.6%	0.6 – 7.6%
hLRT	HKY+Γ	TrN+Γ	JC+Γ
AIC _c	HKY+Γ	TrN+Γ	HKY+I
BIC	HKY+Γ	TrN+Γ	JC+I
DT	HKY+Γ	TrN+Γ	JC+Γ
Models	1	1	3
Δ k	0	0	4

Data Set	184	185	186
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TreeBASE ID	S903/M1483	S1162/M1999	S1001/M1692
Haplotypes	70	20	11
Characters	479	1699	29
P-distance	0.2 – 23.6%	0.1 – 18.5%	3.4 – 41.4%
hLRT	TrN+Γ	TVM+Γ	K2P
AIC _c	SYM+Γ	TVM+I+Γ	HKY
BIC	SYM+Γ	HKY+Γ	K2P
DT	SYM+Γ	HKY+Γ	K2P
Models	2	3	2

Δk	0	4	3
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Data Set	187	188	189
TreeBASE ID	S892/M1465	S1195/M2064	S798/M1263
Haplotypes	16	121	36
Characters	701	3484	940
P-distance	0.1 – 33.1%	0 – 3.8%	0.1 – 24.0%
hLRT	HKY+Γ	HKY+I+Γ	GTR+I+Γ
AIC _c	TVM+ Γ	TrN+I+ Γ	GTR+I+Γ
BIC	HKY+Γ	HKY+I+Γ	GTR+I+Γ
DT	HKY+Γ	HKY+I+Γ	GTR+I+Γ
Models	2	2	1
Δk	3	1	0

Data Set	190	191	192
TreeBASE ID	S1018/M1725	S1155/M1984	S979/M1629
Haplotypes	23	14	45
Characters	2456	554	2673
P-distance	1.4 – 23.4%	0.2 – 6.5%	0.3 – 14.4%
hLRT	TrN+I+Γ	HKY	TrN+I+Γ
AIC _c	GTR+I+ Γ	TrN+ Γ	GTR+I+ Γ
BIC	GTR+I+ Γ	HKY	TrN+I+Γ
DT	GTR+I+ Γ	HKY	TrN+I+Γ
Models	2	2	2
Δk	3	2	3

Data Set	193	194	195
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TreeBASE ID	S532/M779	S935/M1550	S1101/M1883
Haplotypes	-	19	12
Characters	-	532	728
P-distance	-	0.2 – 31.6%	0.5 – 28.3%
hLRT	-	TrNef+Γ	TrN+Γ
AIC _c	-	GTR+I	GTR+I+Γ
BIC	-	TrN+I	TIMEf+Γ
DT	-	TrN+I	TIMEf+Γ
Models	-	3	3
Δ k	-	6	6

Data Set	196	197	198
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TreeBASE ID	S1008/M1704	S1050/M1790	S621/M959
Haplotypes	12	25	12
Characters	1048	930	497
P-distance	0.1 – 9.4%	0.1 – 3.3%	0.2 – 9.9%
hLRT	HKY+I+Γ	TVM+Γ	JC+Γ
AIC _c	K3Puf+I+Γ	TVM+I	TIMEf+Γ
BIC	HKY+Γ	TVM	TrNef+Γ
DT	HKY+Γ	TVM+I	K2P+I
Models	3	3	4
Δ k	2	1	3

Data Set	199	200	201
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TreeBASE ID	S1092/M1867	S914/M1512	S1312/M2300
Haplotypes	7	41	21

Characters	555	632	1809
P-distance	0.2 – 11.9%	0.2 – 16.9%	0.7 – 22.8%
hLRT	K3Puf+Γ	GTR+Γ	TrN+I+Γ
AIC _c	TVM+I	GTR+I+Γ	GTR+I+Γ
BIC	K3Puf+I	GTR+Γ	HKY+I+Γ
DT	K3Puf+Γ	HKY+I+Γ	HKY+I+Γ
Models	3	3	3
Δ k	2	4	4

Data Set	202	203	204
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TreeBASE ID	S1320/M2316	S838/M1354	S1044/M1780
Haplotypes	73	45	-
Characters	817	242	-
P-distance	0.1 – 18.7%	0.4 – 17.8%	-
hLRT	TrN+I+Γ	HKY+Γ	-
AIC _c	GTR+I+Γ	TVM+Γ	-
BIC	GTR+I+Γ	HKY+Γ	-
DT	GTR+I+Γ	K3Puf+Γ	-
Models	2	3	-
Δ k	3	3	-

Data Set	205	206	207
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TreeBASE ID	S1295/M2266	S920/M1521	S1298/M2276
Haplotypes	-	-	98
Characters	-	-	578
P-distance	-	-	0.2 – 10.2%
hLRT	-	-	TVM+I+Γ

AIC _c	-	-	TVM+I+Γ
BIC	-	-	TVMef+I+Γ
DT	-	-	TVMef+I+Γ
Models	-	-	2
Δ k	-	-	3

Data Set	208	209	210
TreeBASE ID	S1253/M2191	S338/M441	S565/M856
Haplotypes	17	19	44
Characters	415	663	1123
P-distance	0.2 – 16.6%	0.2 – 11.2%	0.1 – 22.3%
hLRT	HKY+Γ	HKY+Γ	K2P+Γ
AIC _c	TVM+Γ	TVM+Γ	TVM+I+Γ
BIC	K2P+Γ	HKY+Γ	HKY+Γ
DT	K2P+I	HKY+Γ	HKY+Γ
Models	4	2	3
Δ k	6	3	7

Data Set	211	212	213
TreeBASE ID	S1010/M1706	S604/M927	S1303/M2283
Haplotypes	138	33	28
Characters	284	1369	1158
P-distance	0.4 – 11.3%	0.8 – 22.4%	0.1 – 10.5%
hLRT	TrN+Γ	TrN+I+Γ	K2P+I+Γ
AIC _c	GTR+Γ	GTR+I+Γ	K2P+I+Γ
BIC	TrN+Γ	TrN+I+Γ	K2P+I+Γ
DT	TrN+Γ	TrN+I+Γ	K2P+I+Γ

Models	2	2	1
Δk	3	3	0

Data Set	214	215	216
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TreeBASE ID	S524/M765	S837/M1353	S392/M548
Haplotypes	24	60	58
Characters	827	902	120
P-distance	7.6 – 23.8%	0.4 – 31.7%	0.8 – 30.8%
hLRT	TVM+I+Γ	GTR+I+Γ	TrN+I+Γ
AIC _c	GTR+I+ Γ	GTR+I+Γ	TVM+I+ Γ
BIC	GTR+I+ Γ	GTR+I+Γ	K3Puf+I+Γ
DT	GTR+I+ Γ	GTR+I+Γ	SYM+I+Γ
Models	2	1	4
Δk	1	0	2

Data Set	217	218	219
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TreeBASE ID	S1072/M1828	S496/M722	S1122/M1919
Haplotypes	26	12	26
Characters	828	487	437
P-distance	0.1 – 14.6%	0.2 – 25.5%	0.2 – 19.7%
hLRT	GTR+I+ Γ	TrNef+Γ	TrNef+I+Γ
AIC _c	GTR+I+ Γ	TrNef+I	SYM+I+ Γ
BIC	TIM+I+Γ	TrNef+I	TIMEf+ Γ
DT	TIM+I+Γ	TrNef+I	TIM+I+ Γ
Models	2	2	4
Δk	2	0	4

Data Set	220	221	222
TreeBASE ID	S1200/M2069	S983/M1636	S773/M1224
Haplotypes	53	6	25
Characters	627	882	320
P-distance	3.2 – 23.3%	0.3 – 14.4%	0.3 – 24.7%
hLRT	TVM+I+Γ	TrN+Γ	TVM+I+Γ
AIC _c	GTR+I+Γ	GTR+I+Γ	GTR+I+Γ
BIC	GTR+I+Γ	K2P+I	TrN+I+Γ
DT	GTR+I+Γ	K2P+I	TrN+I+Γ
Models	2	3	3
Δ k	1	8	3

Data Set	223	224	225
TreeBASE ID	S1310/M2295	S1126/M1930	S836/M1352
Haplotypes	-	16	27
Characters	-	1062	344
P-distance	-	0.1 – 3.7%	0.3 – 11.0%
hLRT	-	TrN+I+Γ	TVM+I+Γ
AIC _c	-	TrN+I	GTR+I+Γ
BIC	-	TrNef+I	GTR+I+Γ
DT	-	TrNef+I	GTR+I+Γ
Models	-	3	2
Δ k	-	4	1

Data Set	226	227	228
TreeBASE ID	S1102/M1884	S396/M564	S382/M529

Haplotypes	50	37	6
Characters	224	1377	1883
P-distance	0.4 – 17.4%	0.1 – 17.7%	0.3 – 10.2%
hLRT	GTR+ Γ	TrN+I+Γ	TrNef+ Γ
AIC _c	GTR+ Γ	GTR+I+ Γ	TrN+I
BIC	TVMef+Γ	TrN+I+Γ	K2P+I
DT	TVMef+Γ	TrN+I+Γ	K2P+I
Models	2	2	3
Δk	4	3	4

Data Set	229	230	231
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TreeBASE ID	S1305/M2286	S962/M1594	S1007/M1700
Haplotypes	36	-	16
Characters	885	-	826
P-distance	0.5 – 16.5%	-	0.1 – 2.3%
hLRT	TrN+I+Γ	-	K3Puf
AIC _c	GTR+I+ Γ	-	K3Puf+ Γ
BIC	TrN+I+Γ	-	K3Puf
DT	TrN+I+Γ	-	K3Puf
Models	2	-	2
Δk	3	-	1

Data Set	232	233	234
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TreeBASE ID	S1014/M1717	S737/M1169	S1289/M2256
Haplotypes	25	23	-
Characters	2744	1378	-
P-distance	0 – 17.2%	3.3 – 24.5%	-

hLRT	GTR+I+Γ	GTR+I+Γ	-
AIC _c	GTR+I+Γ	GTR+I+Γ	-
BIC	GTR+I+Γ	GTR+I+Γ	-
DT	GTR+I+Γ	GTR+I+Γ	-
Models	1	1	-
Δ k	0	0	-

Data Set	235	236	237
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TreeBASE ID	S792/M1215	S1270/M2218	S1231/M2143
Haplotypes	39	79	27
Characters	688	599	312
P-distance	1.2 – 24.9%	0.2 – 13.2%	1.6 – 22.8%
hLRT	GTR+I+Γ	TrN+I+Γ	TVM+I+Γ
AIC _c	GTR+I+Γ	GTR+I+Γ	TVM+I+Γ
BIC	GTR+I+Γ	TrN+I+Γ	HKY+I+Γ
DT	GTR+I+Γ	TrN+I+Γ	HKY+I+Γ
Models	1	2	2
Δ k	0	3	3

Data Set	238	239	240
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TreeBASE ID	S1075/M1832	S1070/M1826	S403/M581
Haplotypes	-	-	9
Characters	-	-	261
P-distance	-	-	0.4 – 27.2%
hLRT	-	-	K2P+Γ
AIC _c	-	-	K3P+I
BIC	-	-	K3P+I

DT	-	-	K3P+I
Models	-	-	2
Δk	-	-	0

Data Set	241	242	243
TreeBASE ID	S1127/M1933	S1163/M2000	S537/M787
Haplotypes	33	7	106
Characters	680	483	242
P-distance	0.1 – 11.3%	0.2 – 17.4%	0.4 – 19.4%
hLRT	K2P+I	K2P+Γ	TrN+ Γ
AIC _c	TVM+I	GTR+I	TrNef+Γ
BIC	K2P	K2P+Γ	TrNef+Γ
DT	K2P+I	K2P+Γ	TrNef+Γ
Models	3	2	2
Δk	7	7	3

Data Set	244	245	246
TreeBASE ID	S1235/M2149	S1216/M2102	S1039/M1769
Haplotypes	14	21	8
Characters	1547	831	1562
P-distance	0.6 – 10.0%	0.1 – 11.2%	0.1 – 12.4%
hLRT	TrN+I+ Γ	TrNef+I+Γ	TrN+I+ Γ
AIC _c	GTR+I+ Γ	GTR+I+ Γ	TrN+I+ Γ
BIC	TrNef+I+Γ	TrN+I+ Γ	HKY+I+ Γ
DT	TrNef+I+Γ	TrN+I+ Γ	HKY+I
Models	3	3	3
Δk	6	6	2

Data Set	247	248	249
TreeBASE ID	S1060/M1809	S368/M503	S389/M543
Haplotypes	57	-	53
Characters	1797	-	895
P-distance	0.1 – 31.1%	-	0.1 – 16.2%
hLRT	GTR+I+ Γ	-	TrN+I+Γ
AIC _c	GTR+I+ Γ	-	TrN+I+Γ
BIC	TVM+I+Γ	-	TrN+I+Γ
DT	TVM+I+Γ	-	TrN+I+Γ
Models	2	-	1
Δk	1	-	0

Data Set	250
TreeBASE ID	S939/M1556
Haplotypes	41
Characters	445
P-distance	0.2 – 25.6%
hLRT	TrNef+Γ
AIC _c	SYM+ Γ
BIC	SYM+ Γ
DT	SYM+ Γ
Models	2
Δk	3