

**Sequence Evolution, Abundance, and Chromosomal Distribution of Ty1-copia
Retrotransposons in the *Saccharum spontaneum* Genome**

**Shan Yang^{1#}, Kai Zeng^{1#}, Ke Chen¹, Xinwang Zhao¹, Jiayun Wu², Yongji Huang¹,
Fan Yu¹, Muqing Zhang³, Zuhu Deng^{1, 3*}**

¹National Engineering Research Center for Sugarcane, Fujian Agriculture and Forestry University, Fuzhou, China, 350002

²Guangdong Provincial Bioengineering Institute, Guangzhou Sugarcane Industry Research Institute, Guangzhou, China

³State Key Laboratory for protection and utilization of subtropical agro-bioresources, Guangxi University, Nanning, China, 530004

Short Title: Characterisation of Ty1-copia Retrotransposons in *Saccharum spontaneum*

[#]These authors contributed equally to this work.

*Corresponding Author:
Zuhu Deng
Email: dengzuhu@163.com

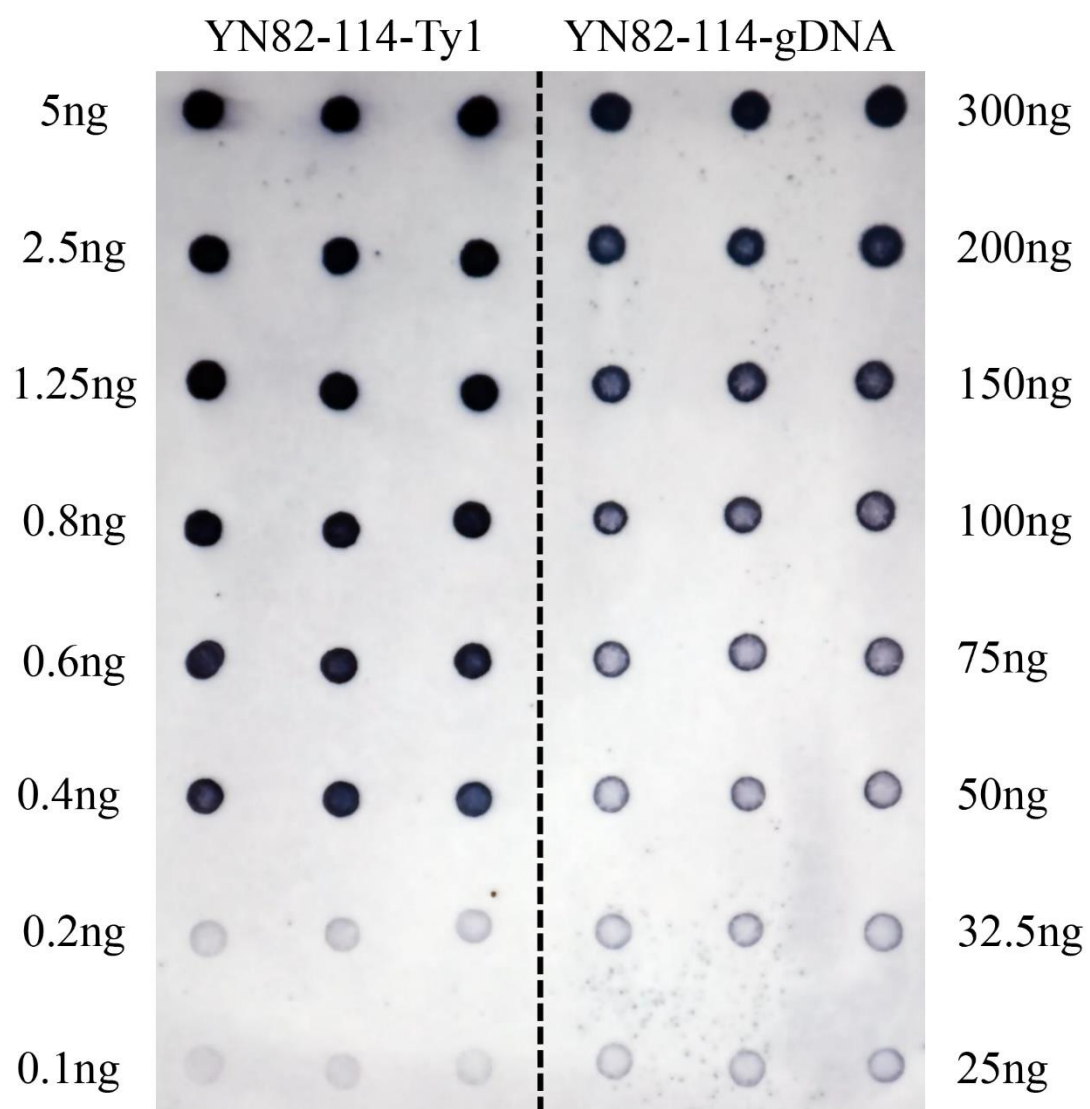


Figure S1

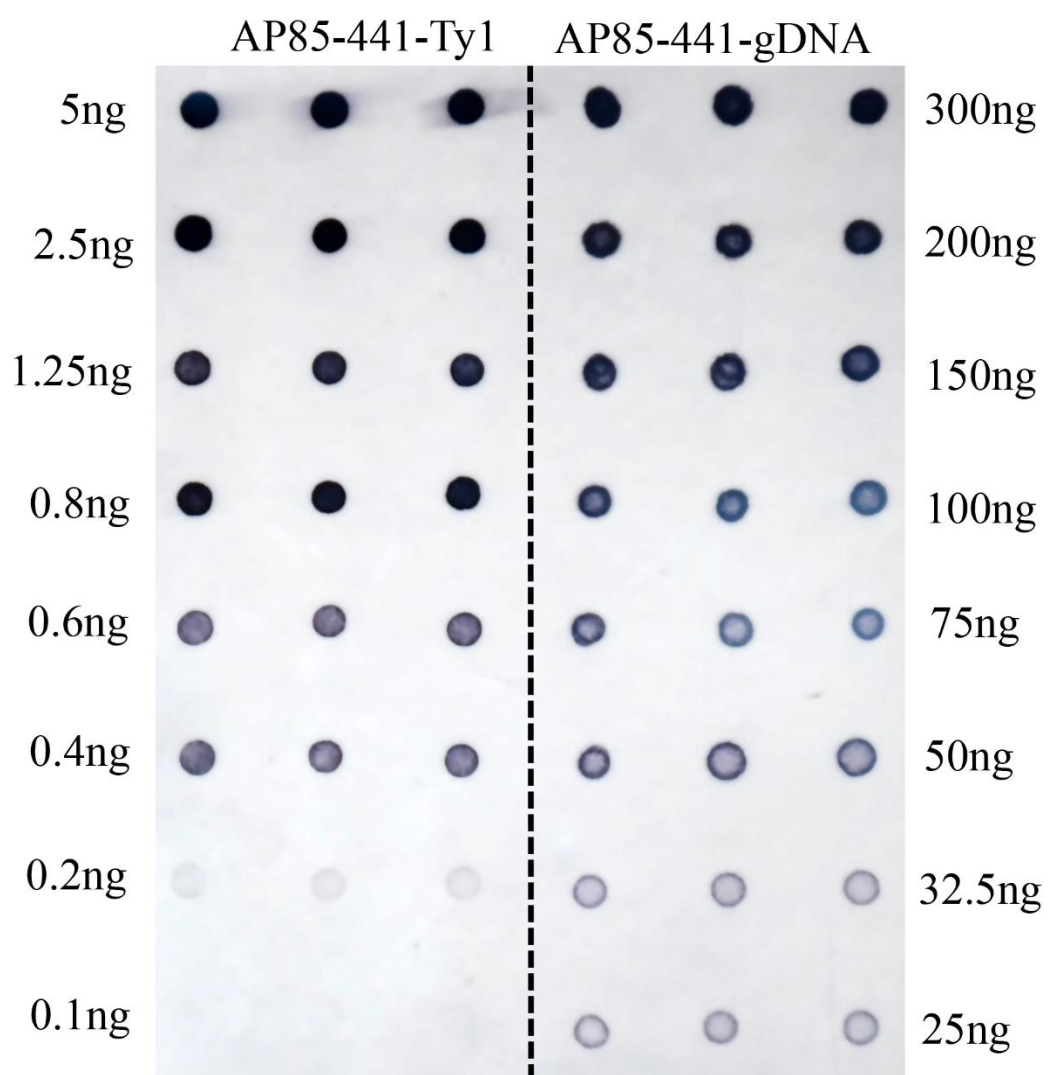


Figure S2



Figure S3

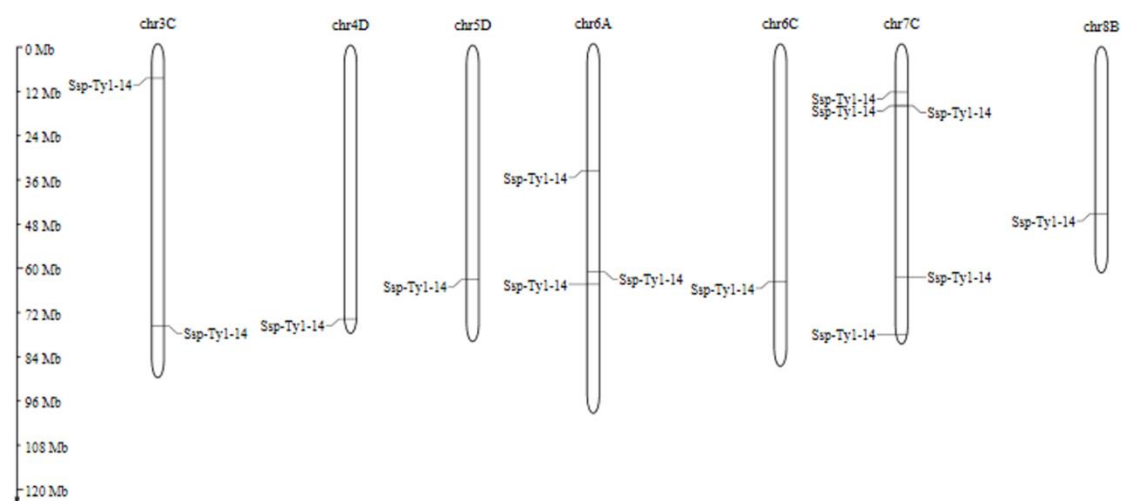


Figure S4

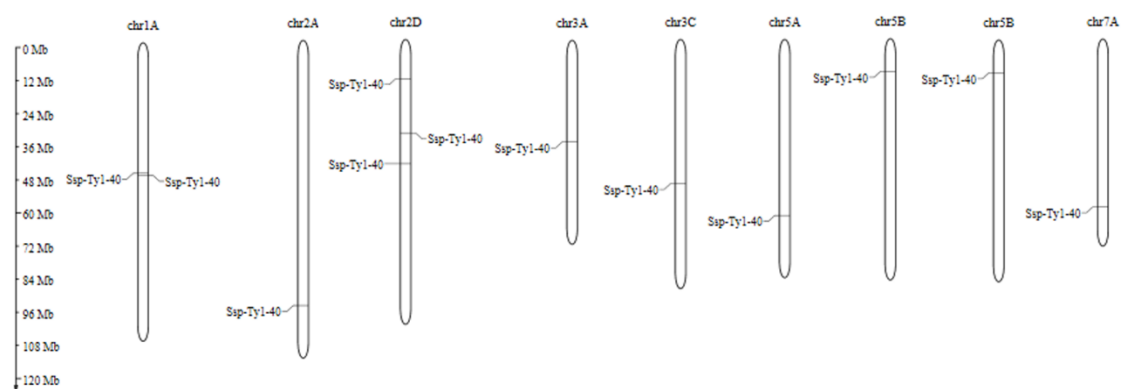


Figure S5

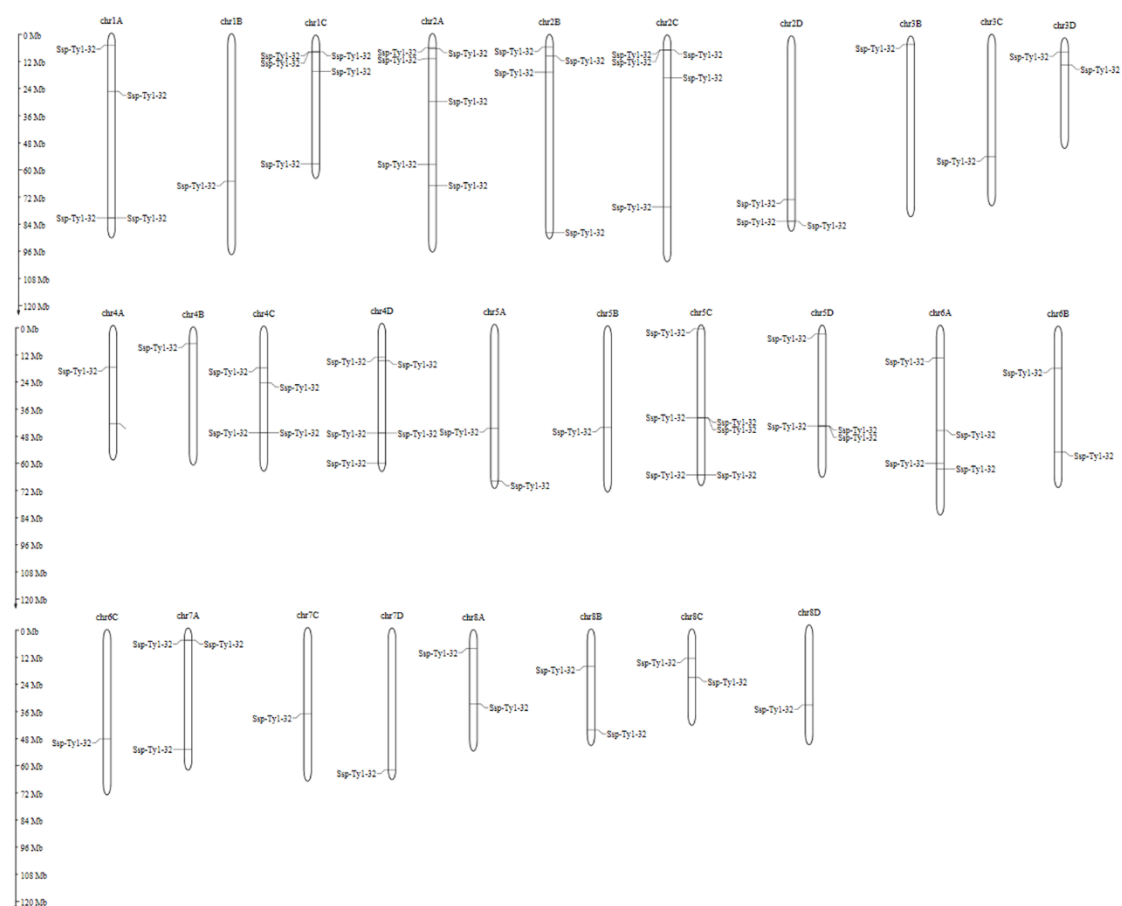


Figure S6

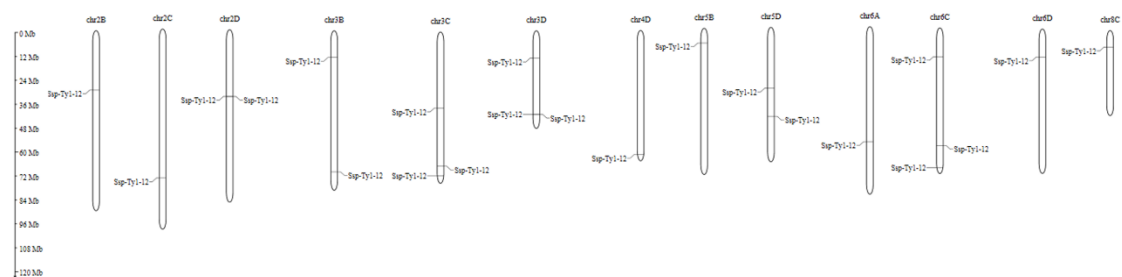


Figure S7

Table legends

Table. S1 The nucleotide composition of reverse transcriptase domains of Ty1-copia retrotransposons in *S. spontaneum*.

Sequence No.	Size (bp)	A+T content (%)	Accession number
Ssp-Ty1-1	263	60.00%	MH743729
Ssp-Ty1-2	257	52.10%	MH743730

Ssp-Ty1-3	257	53.30%	MH743731
Ssp-Ty1-4	264	60.20%	MH743732
Ssp-Ty1-5	263	45.60%	MH743733
Ssp-Ty1-6	257	44.90%	MH743734
Ssp-Ty1-7	264	60.20%	MH743735
Ssp-Ty1-8	264	61.60%	MH743736
Ssp-Ty1-9	263	49.00%	MH743737
Ssp-Ty1-10	257	52.40%	MH743738
Ssp-Ty1-11	246	55.70%	MH743739
Ssp-Ty1-12	246	55.70%	MH743740
Ssp-Ty1-13	246	55.70%	MH743741
Ssp-Ty1-14	263	56.30%	MH743742
Ssp-Ty1-15	257	53.30%	MH743743
Ssp-Ty1-16	263	57.00%	MH743744
Ssp-Ty1-17	257	59.60%	MH743745
Ssp-Ty1-18	258	59.70%	MH743746
Ssp-Ty1-19	263	57.40%	MH743747
Ssp-Ty1-20	259	54.20%	MH743748
Ssp-Ty1-21	263	62.30%	MH743749
Ssp-Ty1-22	263	44.10%	MH743750
Ssp-Ty1-23	263	46.40%	MH743751
Ssp-Ty1-24	257	52.50%	MH743752
Ssp-Ty1-25	257	62.10%	MH743753
Ssp-Ty1-26	257	53.70%	MH743754
Ssp-Ty1-27	263	57.50%	MH743755
Ssp-Ty1-28	263	59.80%	MH743756
Ssp-Ty1-29	263	51.40%	MH743757
Ssp-Ty1-30	257	53.70%	MH743758
Ssp-Ty1-31	264	53.00%	MH743759
Ssp-Ty1-32	263	63.80%	MH743760
Ssp-Ty1-33	263	45.60%	MH743761
Ssp-Ty1-34	257	53.30%	MH743762
Ssp-Ty1-35	257	53.30%	MH743763
Ssp-Ty1-36	262	54.20%	MH743764
Ssp-Ty1-37	257	54.10%	MH743765
Ssp-Ty1-38	263	53.30%	MH743766
Ssp-Ty1-39	263	47.50%	MH743767
Ssp-Ty1-40	263	57.80%	MH743768
Ssp-Ty1-41	257	57.20%	MH743769
Ssp-Ty1-42	263	46.00%	MH743770
Ssp-Ty1-43	257	52.20%	MH743771
Ssp-Ty1-44	265	63.10%	MH743772

Table. S2 The similarity matrix of Ty1-copia RT nucleotide sequences.

Seq->	Ssp-Ty1-8	Ssp-Ty1-21	Ssp-Ty1-32	Ssp-Ty1-44	Ssp-Ty1-10	Ssp-Ty1-24
Ssp-Ty1-8	ID	98.0%	76.8%	75.6%	52.9%	52.4%
Ssp-Ty1-21	98.0%	ID	76.0%	75.2%	52.2%	52.8%
Ssp-Ty1-32	76.8%	76.0%	ID	98.0%	56.7%	56.5%
Ssp-Ty1-44	75.6%	75.2%	98.0%	ID	55.5%	56.1%
Ssp-Ty1-10	52.9%	52.2%	56.7%	55.5%	ID	98.4%
Ssp-Ty1-24	52.4%	52.8%	56.5%	56.1%	98.4%	ID
Ssp-Ty1-2	52.8%	52.8%	55.0%	55.0%	95.3%	96.4%
Ssp-Ty1-43	52.0%	52.8%	56.1%	55.8%	94.9%	96.4%
Ssp-Ty1-37	52.4%	51.6%	55.8%	55.4%	93.4%	94.5%
Ssp-Ty1-17	50.1%	49.4%	53.9%	54.6%	87.5%	88.3%
Ssp-Ty1-6	55.0%	54.6%	57.3%	56.5%	89.5%	90.2%
Ssp-Ty1-34	55.4%	55.8%	55.8%	55.8%	82.5%	83.2%
Ssp-Ty1-35	55.4%	55.8%	55.8%	55.8%	82.5%	83.2%
Ssp-Ty1-25	55.0%	54.3%	56.1%	55.4%	82.5%	83.2%
Ssp-Ty1-30	54.6%	54.6%	55.8%	55.0%	81.3%	82.8%
Ssp-Ty1-15	55.0%	54.3%	57.3%	56.1%	83.7%	83.6%
Ssp-Ty1-20	53.9%	53.5%	55.4%	55.4%	82.1%	83.2%
Ssp-Ty1-3	54.6%	53.9%	56.5%	56.5%	82.9%	83.6%
Ssp-Ty1-26	54.6%	54.6%	56.9%	55.8%	82.1%	82.8%
Ssp-Ty1-11	52.0%	50.9%	53.5%	54.3%	78.2%	78.5%
Ssp-Ty1-12	52.0%	50.9%	53.5%	54.3%	78.6%	78.9%
Ssp-Ty1-13	50.5%	49.4%	51.6%	52.4%	75.1%	75.4%
Ssp-Ty1-41	53.9%	53.5%	56.1%	55.4%	73.6%	74.3%
Ssp-Ty1-29	51.8%	51.8%	54.1%	54.1%	51.6%	52.6%
Ssp-Ty1-31	51.3%	50.1%	54.3%	53.5%	51.8%	52.4%
Ssp-Ty1-28	51.5%	52.2%	53.7%	54.1%	51.6%	52.9%
Ssp-Ty1-36	55.6%	56.0%	57.1%	56.3%	54.6%	54.4%
Ssp-Ty1-5	53.0%	52.2%	55.2%	53.3%	55.7%	55.5%
Ssp-Ty1-22	51.8%	50.7%	53.3%	52.2%	55.7%	55.5%
Ssp-Ty1-33	51.8%	51.5%	53.0%	53.0%	54.2%	55.5%
Ssp-Ty1-39	52.2%	52.6%	53.7%	54.1%	55.3%	56.7%
Ssp-Ty1-23	51.8%	51.8%	53.7%	53.7%	55.0%	56.3%
Ssp-Ty1-9	51.8%	52.2%	53.3%	53.7%	53.1%	54.4%
Ssp-Ty1-42	48.1%	48.8%	51.4%	51.8%	53.0%	53.9%
Ssp-Ty1-1	52.4%	52.8%	48.3%	49.0%	54.4%	54.6%
Ssp-Ty1-19	55.0%	54.7%	51.6%	50.9%	51.8%	51.6%
Ssp-Ty1-7	52.4%	53.1%	50.9%	52.0%	51.1%	51.6%
Ssp-Ty1-27	47.5%	48.2%	50.3%	50.7%	50.1%	51.4%
Ssp-Ty1-40	47.8%	47.1%	51.4%	50.7%	50.9%	51.4%
Ssp-Ty1-16	49.6%	48.9%	51.0%	50.3%	51.6%	51.4%
Ssp-Ty1-18	51.6%	52.0%	54.2%	52.7%	46.4%	46.2%
Ssp-Ty1-38	53.9%	54.3%	51.6%	50.5%	51.4%	51.3%
Ssp-Ty1-4	52.2%	51.1%	52.9%	52.2%	53.1%	52.9%
Ssp-Ty1-14	50.7%	51.1%	51.8%	50.7%	57.2%	57.8%

Ssp-Ty1-2	Ssp-Ty1-43	Ssp-Ty1-37	Ssp-Ty1-17	Ssp-Ty1-6	Ssp-Ty1-34	Ssp-Ty1-35
52.8%	52.0%	52.4%	50.1%	55.0%	55.4%	55.4%
52.8%	52.8%	51.6%	49.4%	54.6%	55.8%	55.8%
55.0%	56.1%	55.8%	53.9%	57.3%	55.8%	55.8%
55.0%	55.8%	55.4%	54.6%	56.5%	55.8%	55.8%
95.3%	94.9%	93.4%	87.5%	89.5%	82.5%	82.5%
96.4%	96.4%	94.5%	88.3%	90.2%	83.2%	83.2%
ID	96.1%	92.9%	88.7%	89.8%	83.6%	83.6%
96.1%	ID	93.3%	88.3%	90.6%	84.8%	84.8%
92.9%	93.3%	ID	89.1%	89.8%	83.6%	83.6%
88.7%	88.3%	89.1%	ID	87.1%	80.9%	80.9%
89.8%	90.6%	89.8%	87.1%	ID	85.9%	85.9%
83.6%	84.8%	83.6%	80.9%	85.9%	ID	100.0%
83.6%	84.8%	83.6%	80.9%	85.9%	100.0%	ID
83.6%	84.4%	83.2%	81.3%	85.6%	98.0%	98.0%
83.2%	84.0%	82.8%	80.1%	85.6%	96.8%	96.8%
84.4%	84.0%	84.0%	81.7%	84.8%	95.3%	95.3%
84.8%	83.6%	84.0%	81.3%	84.4%	94.9%	94.9%
84.8%	84.0%	83.6%	82.4%	85.2%	95.3%	95.3%
83.2%	84.8%	82.8%	81.7%	85.2%	96.1%	96.1%
78.5%	78.5%	78.9%	75.8%	80.1%	80.1%	80.1%
78.9%	78.9%	79.3%	76.2%	80.5%	80.5%	80.5%
75.4%	75.4%	75.8%	73.5%	77.0%	77.8%	77.8%
73.9%	74.3%	74.7%	72.3%	76.6%	77.0%	77.0%
52.6%	53.3%	51.1%	50.0%	51.8%	49.6%	49.6%
51.6%	50.9%	49.0%	49.4%	53.1%	48.6%	48.6%
53.7%	54.4%	51.4%	52.2%	52.9%	51.4%	51.4%
54.1%	53.7%	52.2%	50.7%	53.7%	51.4%	51.4%
54.4%	55.5%	52.9%	50.7%	54.8%	53.3%	53.3%
54.4%	54.8%	52.2%	50.0%	53.7%	52.6%	52.6%
55.5%	55.5%	52.6%	51.4%	54.8%	53.3%	53.3%
55.9%	55.5%	53.3%	51.4%	55.2%	54.1%	54.1%
55.5%	56.7%	53.7%	51.8%	55.2%	54.4%	54.4%
52.9%	54.1%	52.9%	51.1%	54.1%	52.6%	52.6%
53.5%	53.5%	50.1%	47.5%	53.2%	52.8%	52.8%
53.9%	54.3%	52.4%	50.5%	51.6%	55.8%	55.8%
51.3%	51.6%	50.1%	50.5%	52.0%	52.8%	52.8%
51.2%	52.0%	50.9%	49.4%	53.8%	54.2%	54.2%
50.3%	50.3%	49.6%	50.0%	51.4%	51.0%	51.0%
50.7%	50.7%	50.7%	50.7%	52.1%	51.8%	51.8%
50.7%	51.0%	52.5%	51.8%	52.5%	53.6%	53.6%
44.7%	46.2%	45.8%	44.0%	47.7%	47.0%	47.0%
51.3%	51.6%	50.1%	47.9%	51.6%	53.1%	53.1%
52.2%	52.9%	50.7%	51.1%	54.4%	51.1%	51.1%
57.8%	57.8%	56.3%	55.5%	58.2%	57.0%	57.0%

Ssp-Ty1-25	Ssp-Ty1-30	Ssp-Ty1-15	Ssp-Ty1-20	Ssp-Ty1-3	Ssp-Ty1-26	Ssp-Ty1-11
55.0%	54.6%	55.0%	53.9%	54.6%	54.6%	52.0%
54.3%	54.6%	54.3%	53.5%	53.9%	54.6%	50.9%
56.1%	55.8%	57.3%	55.4%	56.5%	56.9%	53.5%
55.4%	55.0%	56.1%	55.4%	56.5%	55.8%	54.3%
82.5%	81.3%	83.7%	82.1%	82.9%	82.1%	78.2%
83.2%	82.8%	83.6%	83.2%	83.6%	82.8%	78.5%
83.6%	83.2%	84.4%	84.8%	84.8%	83.2%	78.5%
84.4%	84.0%	84.0%	83.6%	84.0%	84.8%	78.5%
83.2%	82.8%	84.0%	84.0%	83.6%	82.8%	78.9%
81.3%	80.1%	81.7%	81.3%	82.4%	81.7%	75.8%
85.6%	85.6%	84.8%	84.4%	85.2%	85.2%	80.1%
98.0%	96.8%	95.3%	94.9%	95.3%	96.1%	80.1%
98.0%	96.8%	95.3%	94.9%	95.3%	96.1%	80.1%
ID	96.4%	95.3%	94.1%	95.7%	96.4%	79.7%
96.4%	ID	95.7%	95.3%	96.1%	96.8%	79.3%
95.3%	95.7%	ID	97.6%	98.0%	97.2%	80.5%
94.1%	95.3%	97.6%	ID	97.6%	96.1%	80.5%
95.7%	96.1%	98.0%	97.6%	ID	97.6%	80.9%
96.4%	96.8%	97.2%	96.1%	97.6%	ID	80.5%
79.7%	79.3%	80.5%	80.5%	80.9%	80.5%	ID
80.1%	79.7%	80.9%	80.9%	81.3%	80.9%	99.1%
77.4%	77.0%	78.2%	78.2%	78.5%	78.2%	95.5%
77.4%	75.4%	73.5%	73.1%	73.9%	74.3%	70.8%
49.2%	50.0%	48.8%	49.2%	49.6%	49.2%	49.2%
49.8%	48.6%	48.3%	46.8%	48.3%	48.6%	49.8%
50.7%	51.1%	49.2%	49.2%	49.6%	50.0%	50.3%
51.4%	50.7%	52.6%	51.1%	52.2%	52.6%	48.8%
54.4%	53.3%	54.1%	52.2%	54.1%	54.1%	50.0%
53.3%	52.2%	53.7%	51.8%	52.9%	52.2%	48.8%
53.7%	53.3%	52.6%	52.6%	54.1%	52.6%	49.2%
54.1%	53.7%	53.3%	53.3%	53.7%	52.9%	50.3%
54.1%	53.7%	53.3%	52.6%	53.7%	52.9%	50.0%
52.2%	52.6%	52.9%	52.2%	53.3%	52.9%	48.1%
52.4%	52.8%	52.0%	51.6%	52.0%	51.6%	47.1%
55.4%	54.6%	53.9%	54.3%	54.3%	54.3%	50.9%
51.3%	51.6%	50.5%	49.8%	49.8%	50.5%	49.0%
53.5%	53.8%	52.7%	53.1%	53.5%	53.1%	50.1%
51.0%	51.4%	52.5%	52.5%	52.5%	51.4%	51.3%
52.8%	52.5%	53.6%	52.1%	53.6%	52.8%	51.6%
53.9%	53.6%	55.7%	53.9%	54.7%	53.9%	52.4%
46.6%	47.0%	48.8%	47.3%	47.0%	47.3%	44.0%
52.0%	52.0%	50.5%	49.8%	50.5%	50.5%	49.4%
51.1%	49.6%	50.3%	49.2%	51.4%	51.4%	49.2%
57.0%	56.3%	54.8%	54.4%	55.2%	56.3%	51.4%

Ssp-Ty1-12	Ssp-Ty1-13	Ssp-Ty1-41	Ssp-Ty1-29	Ssp-Ty1-31	Ssp-Ty1-28	Ssp-Ty1-36
52.0%	50.5%	53.9%	51.8%	51.3%	51.5%	55.6%
50.9%	49.4%	53.5%	51.8%	50.1%	52.2%	56.0%
53.5%	51.6%	56.1%	54.1%	54.3%	53.7%	57.1%
54.3%	52.4%	55.4%	54.1%	53.5%	54.1%	56.3%
78.6%	75.1%	73.6%	51.6%	51.8%	51.6%	54.6%
78.9%	75.4%	74.3%	52.6%	52.4%	52.9%	54.4%
78.9%	75.4%	73.9%	52.6%	51.6%	53.7%	54.1%
78.9%	75.4%	74.3%	53.3%	50.9%	54.4%	53.7%
79.3%	75.8%	74.7%	51.1%	49.0%	51.4%	52.2%
76.2%	73.5%	72.3%	50.0%	49.4%	52.2%	50.7%
80.5%	77.0%	76.6%	51.8%	53.1%	52.9%	53.7%
80.5%	77.8%	77.0%	49.6%	48.6%	51.4%	51.4%
80.5%	77.8%	77.0%	49.6%	48.6%	51.4%	51.4%
80.1%	77.4%	77.4%	49.2%	49.8%	50.7%	51.4%
79.7%	77.0%	75.4%	50.0%	48.6%	51.1%	50.7%
80.9%	78.2%	73.5%	48.8%	48.3%	49.2%	52.6%
80.9%	78.2%	73.1%	49.2%	46.8%	49.2%	51.1%
81.3%	78.5%	73.9%	49.6%	48.3%	49.6%	52.2%
80.9%	78.2%	74.3%	49.2%	48.6%	50.0%	52.6%
99.1%	95.5%	70.8%	49.2%	49.8%	50.3%	48.8%
ID	96.3%	71.2%	49.6%	49.8%	50.7%	49.2%
96.3%	ID	68.4%	48.8%	49.0%	49.6%	49.6%
71.2%	68.4%	ID	51.8%	50.5%	50.3%	53.3%
49.6%	48.8%	51.8%	ID	80.3%	74.3%	67.9%
49.8%	49.0%	50.5%	80.3%	ID	69.1%	64.6%
50.7%	49.6%	50.3%	74.3%	69.1%	ID	73.0%
49.2%	49.6%	53.3%	67.9%	64.6%	73.0%	ID
50.3%	50.0%	51.1%	68.4%	68.9%	71.3%	72.0%
49.2%	48.8%	50.0%	67.3%	69.6%	70.5%	71.6%
49.6%	49.2%	51.1%	68.0%	68.9%	72.4%	71.3%
50.7%	50.3%	51.1%	68.8%	69.6%	72.8%	72.0%
50.3%	49.6%	50.7%	68.4%	68.1%	72.4%	70.9%
48.1%	46.2%	50.0%	66.5%	65.5%	69.0%	68.6%
47.1%	46.4%	50.5%	55.2%	53.9%	56.5%	57.9%
51.3%	51.3%	49.4%	59.0%	53.5%	59.0%	57.5%
49.0%	47.5%	51.3%	58.7%	51.6%	59.0%	56.4%
50.5%	49.8%	54.2%	54.8%	50.9%	57.4%	56.3%
51.8%	50.3%	52.5%	46.6%	44.6%	46.6%	45.5%
51.8%	50.3%	55.0%	44.4%	45.3%	46.2%	46.2%
52.4%	51.6%	52.1%	45.1%	44.6%	47.3%	47.6%
44.0%	43.6%	48.1%	50.0%	49.4%	48.8%	54.1%
49.4%	47.9%	52.4%	56.0%	55.4%	59.4%	56.0%
49.6%	48.1%	50.7%	55.8%	54.8%	55.8%	56.5%
51.8%	50.7%	58.2%	59.2%	57.8%	60.0%	60.3%

Ssp-Ty1-5	Ssp-Ty1-22	Ssp-Ty1-33	Ssp-Ty1-39	Ssp-Ty1-23	Ssp-Ty1-9	Ssp-Ty1-42
53.0%	51.8%	51.8%	52.2%	51.8%	51.8%	48.1%
52.2%	50.7%	51.5%	52.6%	51.8%	52.2%	48.8%
55.2%	53.3%	53.0%	53.7%	53.7%	53.3%	51.4%
53.3%	52.2%	53.0%	54.1%	53.7%	53.7%	51.8%
55.7%	55.7%	54.2%	55.3%	55.0%	53.1%	53.0%
55.5%	55.5%	55.5%	56.7%	56.3%	54.4%	53.9%
54.4%	54.4%	55.5%	55.9%	55.5%	52.9%	53.5%
55.5%	54.8%	55.5%	55.5%	56.7%	54.1%	53.5%
52.9%	52.2%	52.6%	53.3%	53.7%	52.9%	50.1%
50.7%	50.0%	51.4%	51.4%	51.8%	51.1%	47.5%
54.8%	53.7%	54.8%	55.2%	55.2%	54.1%	53.2%
53.3%	52.6%	53.3%	54.1%	54.4%	52.6%	52.8%
53.3%	52.6%	53.3%	54.1%	54.4%	52.6%	52.8%
54.4%	53.3%	53.7%	54.1%	54.1%	52.2%	52.4%
53.3%	52.2%	53.3%	53.7%	53.7%	52.6%	52.8%
54.1%	53.7%	52.6%	53.3%	53.3%	52.9%	52.0%
52.2%	51.8%	52.6%	53.3%	52.6%	52.2%	51.6%
54.1%	52.9%	54.1%	53.7%	53.7%	53.3%	52.0%
54.1%	52.2%	52.6%	52.9%	52.9%	52.9%	51.6%
50.0%	48.8%	49.2%	50.3%	50.0%	48.1%	47.1%
50.3%	49.2%	49.6%	50.7%	50.3%	48.1%	47.1%
50.0%	48.8%	49.2%	50.3%	49.6%	46.2%	46.4%
51.1%	50.0%	51.1%	51.1%	50.7%	50.0%	50.5%
68.4%	67.3%	68.0%	68.8%	68.4%	66.5%	55.2%
68.9%	69.6%	68.9%	69.6%	68.1%	65.5%	53.9%
71.3%	70.5%	72.4%	72.8%	72.4%	69.0%	56.5%
72.0%	71.6%	71.3%	72.0%	70.9%	68.6%	57.9%
ID	97.7%	97.3%	96.1%	94.6%	69.5%	60.4%
97.7%	ID	97.3%	95.4%	93.9%	69.2%	60.4%
97.3%	97.3%	ID	96.9%	95.4%	69.5%	60.8%
96.1%	95.4%	96.9%	ID	95.0%	69.9%	61.9%
94.6%	93.9%	95.4%	95.0%	ID	69.9%	60.0%
69.5%	69.2%	69.5%	69.9%	69.9%	ID	60.0%
60.4%	60.4%	60.8%	61.9%	60.0%	60.0%	ID
59.4%	59.4%	59.8%	61.3%	58.7%	56.0%	54.1%
56.4%	56.8%	56.8%	57.5%	58.7%	53.7%	53.3%
55.9%	55.5%	56.7%	57.4%	56.3%	55.2%	51.4%
48.0%	48.0%	48.3%	49.4%	48.0%	48.3%	46.0%
49.1%	48.0%	49.1%	49.1%	49.1%	49.8%	44.9%
49.4%	48.7%	48.0%	49.1%	48.0%	48.7%	47.8%
52.2%	51.8%	51.1%	52.2%	50.7%	48.5%	45.2%
59.8%	59.4%	60.2%	60.2%	59.8%	55.3%	51.4%
59.9%	59.1%	59.9%	58.8%	59.5%	54.6%	48.8%
56.9%	56.6%	57.3%	56.9%	57.7%	53.9%	51.6%

Ssp-Ty1-1	Ssp-Ty1-19	Ssp-Ty1-7	Ssp-Ty1-27	Ssp-Ty1-40	Ssp-Ty1-16	Ssp-Ty1-18
52.4%	55.0%	52.4%	47.5%	47.8%	49.6%	51.6%
52.8%	54.7%	53.1%	48.2%	47.1%	48.9%	52.0%
48.3%	51.6%	50.9%	50.3%	51.4%	51.0%	54.2%
49.0%	50.9%	52.0%	50.7%	50.7%	50.3%	52.7%
54.4%	51.8%	51.1%	50.1%	50.9%	51.6%	46.4%
54.6%	51.6%	51.6%	51.4%	51.4%	51.4%	46.2%
53.9%	51.3%	51.2%	50.3%	50.7%	50.7%	44.7%
54.3%	51.6%	52.0%	50.3%	50.7%	51.0%	46.2%
52.4%	50.1%	50.9%	49.6%	50.7%	52.5%	45.8%
50.5%	50.5%	49.4%	50.0%	50.7%	51.8%	44.0%
51.6%	52.0%	53.8%	51.4%	52.1%	52.5%	47.7%
55.8%	52.8%	54.2%	51.0%	51.8%	53.6%	47.0%
55.8%	52.8%	54.2%	51.0%	51.8%	53.6%	47.0%
55.4%	51.3%	53.5%	51.0%	52.8%	53.9%	46.6%
54.6%	51.6%	53.8%	51.4%	52.5%	53.6%	47.0%
53.9%	50.5%	52.7%	52.5%	53.6%	55.7%	48.8%
54.3%	49.8%	53.1%	52.5%	52.1%	53.9%	47.3%
54.3%	49.8%	53.5%	52.5%	53.6%	54.7%	47.0%
54.3%	50.5%	53.1%	51.4%	52.8%	53.9%	47.3%
50.9%	49.0%	50.1%	51.3%	51.6%	52.4%	44.0%
51.3%	49.0%	50.5%	51.8%	51.8%	52.4%	44.0%
51.3%	47.5%	49.8%	50.3%	50.3%	51.6%	43.6%
49.4%	51.3%	54.2%	52.5%	55.0%	52.1%	48.1%
59.0%	58.7%	54.8%	46.6%	44.4%	45.1%	50.0%
53.5%	51.6%	50.9%	44.6%	45.3%	44.6%	49.4%
59.0%	59.0%	57.4%	46.6%	46.2%	47.3%	48.8%
57.5%	56.4%	56.3%	45.5%	46.2%	47.6%	54.1%
59.4%	56.4%	55.9%	48.0%	49.1%	49.4%	52.2%
59.4%	56.8%	55.5%	48.0%	48.0%	48.7%	51.8%
59.8%	56.8%	56.7%	48.3%	49.1%	48.0%	51.1%
61.3%	57.5%	57.4%	49.4%	49.1%	49.1%	52.2%
58.7%	58.7%	56.3%	48.0%	49.1%	48.0%	50.7%
56.0%	53.7%	55.2%	48.3%	49.8%	48.7%	48.5%
54.1%	53.3%	51.4%	46.0%	44.9%	47.8%	45.2%
ID	73.3%	73.7%	51.0%	51.0%	52.5%	53.1%
73.3%	ID	65.9%	51.7%	52.8%	53.2%	50.1%
73.7%	65.9%	ID	52.8%	53.8%	51.0%	53.5%
51.0%	51.7%	52.8%	ID	88.5%	80.3%	44.7%
51.0%	52.8%	53.8%	88.5%	ID	82.6%	45.4%
52.5%	53.2%	51.0%	80.3%	82.6%	ID	45.7%
53.1%	50.1%	53.5%	44.7%	45.4%	45.7%	ID
69.9%	70.7%	65.1%	47.5%	48.2%	50.7%	50.5%
66.5%	65.7%	68.9%	46.9%	49.8%	49.1%	50.0%
67.0%	67.0%	65.7%	51.6%	52.3%	49.4%	52.2%

Ssp-Ty1-38	Ssp-Ty1-4	Ssp-Ty1-14
53.9%	52.2%	50.7%
54.3%	51.1%	51.1%
51.6%	52.9%	51.8%
50.5%	52.2%	50.7%
51.4%	53.1%	57.2%
51.3%	52.9%	57.8%
51.3%	52.2%	57.8%
51.6%	52.9%	57.8%
50.1%	50.7%	56.3%
47.9%	51.1%	55.5%
51.6%	54.4%	58.2%
53.1%	51.1%	57.0%
53.1%	51.1%	57.0%
52.0%	51.1%	57.0%
52.0%	49.6%	56.3%
50.5%	50.3%	54.8%
49.8%	49.2%	54.4%
50.5%	51.4%	55.2%
50.5%	51.4%	56.3%
49.4%	49.2%	51.4%
49.4%	49.6%	51.8%
47.9%	48.1%	50.7%
52.4%	50.7%	58.2%
56.0%	55.8%	59.2%
55.4%	54.8%	57.8%
59.4%	55.8%	60.0%
56.0%	56.5%	60.3%
59.8%	59.9%	56.9%
59.4%	59.1%	56.6%
60.2%	59.9%	57.3%
60.2%	58.8%	56.9%
59.8%	59.5%	57.7%
55.3%	54.6%	53.9%
51.4%	48.8%	51.6%
69.9%	66.5%	67.0%
70.7%	65.7%	67.0%
65.1%	68.9%	65.7%
47.5%	46.9%	51.6%
48.2%	49.8%	52.3%
50.7%	49.1%	49.4%
50.5%	50.0%	52.2%
ID	65.4%	68.1%
65.4%	ID	67.9%
68.1%	67.9%	ID

Table. S3 The similarity matrix of Ty1-copia RT amino acid sequences.

Seq->	SSP-TY1-25	SSP-TY1-30	SSP-TY1-26	SSP-TY1-34	SSP-TY1-35	SSP-TY1-3
SSP-TY1-25	ID	97.2%	98.6%	98.6%	98.6%	98.6%
SSP-TY1-30	97.2%	ID	95.9%	95.9%	95.9%	95.9%
SSP-TY1-26	98.6%	95.9%	ID	97.2%	97.2%	97.2%
SSP-TY1-34	98.6%	95.9%	97.2%	ID	100.0%	97.2%
SSP-TY1-35	98.6%	95.9%	97.2%	100.0%	ID	97.2%
SSP-TY1-3	98.6%	95.9%	97.2%	97.2%	97.2%	ID
SSP-TY1-20	97.2%	94.5%	95.9%	95.9%	95.9%	98.6%
SSP-TY1-15	97.2%	94.5%	95.9%	95.9%	95.9%	98.6%
SSP-TY1-2	87.8%	85.1%	86.4%	86.4%	86.4%	89.1%
SSP-TY1-24	87.8%	85.1%	86.4%	86.4%	86.4%	89.1%
SSP-TY1-10	86.4%	83.7%	85.1%	87.8%	87.8%	87.8%
SSP-TY1-43	89.1%	86.4%	87.8%	87.8%	87.8%	87.8%
SSP-TY1-6	86.4%	83.7%	85.1%	87.8%	87.8%	85.1%
SSP-TY1-17	74.3%	71.6%	75.6%	72.9%	72.9%	74.3%
SSP-TY1-37	85.1%	82.4%	83.7%	83.7%	83.7%	86.4%
SSP-TY1-11	81.0%	78.3%	79.7%	79.7%	79.7%	82.4%
SSP-TY1-12	81.0%	78.3%	79.7%	79.7%	79.7%	82.4%
SSP-TY1-13	74.3%	71.6%	72.9%	72.9%	72.9%	75.6%
SSP-TY1-41	78.3%	77.0%	77.0%	79.7%	79.7%	78.3%
SSP-TY1-8	39.4%	38.1%	38.1%	39.4%	39.4%	39.4%
SSP-TY1-21	39.4%	38.1%	38.1%	39.4%	39.4%	39.4%
SSP-TY1-32	40.7%	39.4%	39.4%	39.4%	39.4%	40.7%
SSP-TY1-44	39.4%	38.1%	38.1%	38.1%	38.1%	39.4%
SSP-TY1-1	43.4%	42.1%	42.1%	43.4%	43.4%	43.4%
SSP-TY1-19	43.4%	42.1%	42.1%	43.4%	43.4%	43.4%
SSP-TY1-7	43.4%	42.1%	42.1%	43.4%	43.4%	43.4%
SSP-TY1-38	42.1%	40.7%	40.7%	42.1%	42.1%	42.1%
SSP-TY1-4	39.4%	38.1%	40.7%	39.4%	39.4%	39.4%
SSP-TY1-14	43.4%	42.1%	42.1%	43.4%	43.4%	43.4%
SSP-TY1-22	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
SSP-TY1-33	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
SSP-TY1-5	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
SSP-TY1-23	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
SSP-TY1-39	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
SSP-TY1-28	42.1%	40.7%	40.7%	40.7%	40.7%	42.1%
SSP-TY1-36	37.6%	36.3%	36.3%	37.6%	37.6%	37.6%
SSP-TY1-9	44.7%	43.4%	44.7%	43.4%	43.4%	44.7%
SSP-TY1-42	34.2%	32.8%	34.2%	34.2%	34.2%	34.2%
SSP-TY1-29	46.0%	44.7%	44.7%	44.7%	44.7%	46.0%
SSP-TY1-31	39.4%	38.1%	38.1%	38.1%	38.1%	39.4%
SSP-TY1-27	40.7%	39.4%	39.4%	39.4%	39.4%	40.7%
SSP-TY1-40	42.1%	40.7%	40.7%	40.7%	40.7%	42.1%
SSP-TY1-16	43.4%	42.1%	42.1%	42.1%	42.1%	43.4%
SSP-TY1-18	35.5%	34.2%	34.2%	35.5%	35.5%	35.5%

SSP-TY1-20	SSP-TY1-15	SSP-TY1-2	SSP-TY1-24	SSP-TY1-10	SSP-TY1-43	SSP-TY1-6
97.2%	97.2%	87.8%	87.8%	86.4%	89.1%	86.4%
94.5%	94.5%	85.1%	85.1%	83.7%	86.4%	83.7%
95.9%	95.9%	86.4%	86.4%	85.1%	87.8%	85.1%
95.9%	95.9%	86.4%	86.4%	87.8%	87.8%	87.8%
95.9%	95.9%	86.4%	86.4%	87.8%	87.8%	87.8%
98.6%	98.6%	89.1%	89.1%	87.8%	87.8%	85.1%
ID	97.2%	87.8%	87.8%	86.4%	86.4%	83.7%
97.2%	ID	89.1%	89.1%	87.8%	87.8%	83.7%
87.8%	89.1%	ID	100.0%	98.6%	97.2%	93.2%
87.8%	89.1%	100.0%	ID	98.6%	97.2%	93.2%
86.4%	87.8%	98.6%	98.6%	ID	95.9%	94.5%
86.4%	87.8%	97.2%	97.2%	95.9%	ID	93.2%
83.7%	83.7%	93.2%	93.2%	94.5%	93.2%	ID
72.9%	72.9%	81.0%	81.0%	79.7%	79.7%	78.3%
85.1%	85.1%	93.2%	93.2%	91.8%	90.5%	89.1%
81.0%	81.0%	82.4%	82.4%	81.0%	82.4%	78.3%
81.0%	81.0%	82.4%	82.4%	81.0%	82.4%	78.3%
74.3%	74.3%	75.6%	75.6%	74.3%	75.6%	71.6%
77.0%	77.0%	77.0%	77.0%	78.3%	78.3%	78.3%
38.1%	39.4%	40.7%	40.7%	40.7%	40.7%	39.4%
38.1%	39.4%	39.4%	39.4%	39.4%	39.4%	38.1%
39.4%	40.7%	42.1%	42.1%	40.7%	42.1%	39.4%
38.1%	39.4%	40.7%	40.7%	39.4%	40.7%	38.1%
42.1%	42.1%	44.7%	44.7%	44.7%	44.7%	44.7%
42.1%	42.1%	44.7%	44.7%	44.7%	44.7%	44.7%
42.1%	42.1%	44.7%	44.7%	44.7%	44.7%	44.7%
40.7%	40.7%	42.1%	42.1%	42.1%	42.1%	42.1%
38.1%	39.4%	42.1%	42.1%	42.1%	42.1%	40.7%
42.1%	42.1%	47.3%	47.3%	47.3%	47.3%	47.3%
40.7%	42.1%	44.7%	44.7%	43.4%	44.7%	43.4%
40.7%	42.1%	44.7%	44.7%	43.4%	44.7%	43.4%
40.7%	42.1%	44.7%	44.7%	43.4%	44.7%	43.4%
40.7%	42.1%	44.7%	44.7%	43.4%	44.7%	43.4%
40.7%	42.1%	44.7%	44.7%	43.4%	44.7%	43.4%
40.7%	42.1%	47.3%	47.3%	46.0%	46.0%	44.7%
36.3%	37.6%	41.5%	41.5%	41.5%	40.2%	41.5%
43.4%	44.7%	43.4%	43.4%	42.1%	43.4%	40.7%
32.8%	34.2%	36.8%	36.8%	36.8%	36.8%	35.5%
44.7%	46.0%	47.3%	47.3%	46.0%	48.6%	44.7%
38.1%	39.4%	44.7%	44.7%	43.4%	43.4%	42.1%
39.4%	40.7%	39.4%	39.4%	38.1%	39.4%	36.8%
40.7%	42.1%	40.7%	40.7%	39.4%	40.7%	38.1%
42.1%	43.4%	40.7%	40.7%	39.4%	40.7%	38.1%
34.2%	35.5%	32.8%	32.8%	32.8%	32.8%	30.2%

SSP-TY1-17	SSP-TY1-37	SSP-TY1-11	SSP-TY1-12	SSP-TY1-13	SSP-TY1-41	SSP-TY1-8
74.3%	85.1%	81.0%	81.0%	74.3%	78.3%	39.4%
71.6%	82.4%	78.3%	78.3%	71.6%	77.0%	38.1%
75.6%	83.7%	79.7%	79.7%	72.9%	77.0%	38.1%
72.9%	83.7%	79.7%	79.7%	72.9%	79.7%	39.4%
72.9%	83.7%	79.7%	79.7%	72.9%	79.7%	39.4%
74.3%	86.4%	82.4%	82.4%	75.6%	78.3%	39.4%
72.9%	85.1%	81.0%	81.0%	74.3%	77.0%	38.1%
72.9%	85.1%	81.0%	81.0%	74.3%	77.0%	39.4%
81.0%	93.2%	82.4%	82.4%	75.6%	77.0%	40.7%
81.0%	93.2%	82.4%	82.4%	75.6%	77.0%	40.7%
79.7%	91.8%	81.0%	81.0%	74.3%	78.3%	40.7%
79.7%	90.5%	82.4%	82.4%	75.6%	78.3%	40.7%
78.3%	89.1%	78.3%	78.3%	71.6%	78.3%	39.4%
ID	79.7%	67.5%	67.5%	63.5%	63.5%	35.5%
79.7%	ID	79.7%	79.7%	72.9%	74.3%	38.1%
67.5%	79.7%	ID	100.0%	91.7%	71.6%	39.4%
67.5%	79.7%	100.0%	ID	91.7%	71.6%	39.4%
63.5%	72.9%	91.7%	91.7%	ID	64.8%	36.8%
63.5%	74.3%	71.6%	71.6%	64.8%	ID	38.1%
35.5%	38.1%	39.4%	39.4%	36.8%	38.1%	ID
34.2%	36.8%	38.1%	38.1%	35.5%	36.8%	98.6%
36.8%	38.1%	35.5%	35.5%	34.2%	36.8%	81.5%
35.5%	36.8%	36.0%	36.0%	34.6%	35.5%	80.2%
36.8%	42.1%	43.4%	43.4%	42.1%	40.7%	38.1%
36.8%	40.7%	42.1%	42.1%	40.7%	40.7%	39.4%
36.8%	43.4%	43.4%	43.4%	42.1%	42.1%	38.1%
34.2%	41.3%	40.7%	40.7%	38.1%	40.7%	34.2%
35.5%	39.4%	39.4%	39.4%	38.1%	38.1%	34.2%
40.7%	43.4%	44.7%	44.7%	42.1%	42.1%	34.2%
36.8%	39.4%	38.1%	38.1%	39.4%	38.1%	43.4%
36.8%	39.4%	38.1%	38.1%	39.4%	38.1%	43.4%
36.8%	39.4%	38.1%	38.1%	39.4%	38.1%	43.4%
36.8%	39.4%	38.1%	38.1%	39.4%	38.1%	43.4%
39.4%	42.1%	38.1%	38.1%	39.4%	38.1%	40.7%
33.7%	37.6%	33.7%	33.7%	35.0%	38.1%	36.3%
38.1%	40.7%	39.4%	39.4%	38.1%	40.7%	39.4%
30.2%	32.8%	30.2%	30.2%	31.5%	32.8%	31.5%
39.4%	42.1%	42.1%	42.1%	42.1%	40.7%	40.7%
36.8%	39.4%	36.8%	36.8%	38.1%	34.2%	36.8%
32.8%	38.1%	40.7%	40.7%	39.4%	40.7%	36.8%
32.8%	39.4%	40.7%	40.7%	39.4%	42.1%	36.8%
32.8%	39.4%	40.7%	40.7%	39.4%	42.1%	36.8%
28.9%	30.2%	32.8%	32.8%	32.8%	32.8%	25.0%

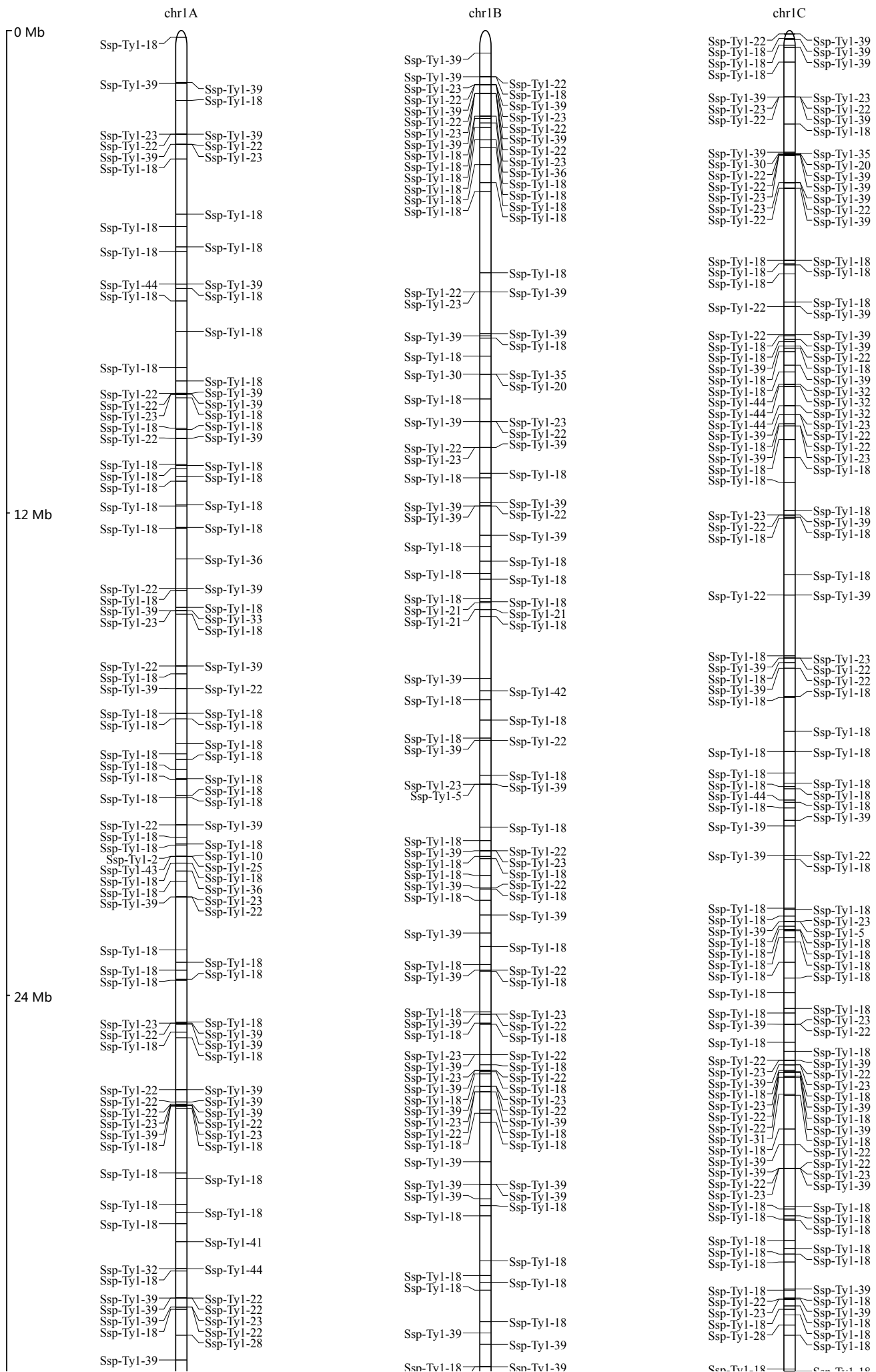
SSP-TY1-21	SSP-TY1-32	SSP-TY1-44	SSP-TY1-1	SSP-TY1-19	SSP-TY1-7	SSP-TY1-38
39.4%	40.7%	39.4%	43.4%	43.4%	43.4%	42.1%
38.1%	39.4%	38.1%	42.1%	42.1%	42.1%	40.7%
38.1%	39.4%	38.1%	42.1%	42.1%	42.1%	40.7%
39.4%	39.4%	38.1%	43.4%	43.4%	43.4%	42.1%
39.4%	39.4%	38.1%	43.4%	43.4%	43.4%	42.1%
39.4%	40.7%	39.4%	43.4%	43.4%	43.4%	42.1%
38.1%	39.4%	38.1%	42.1%	42.1%	42.1%	40.7%
39.4%	40.7%	39.4%	42.1%	42.1%	42.1%	40.7%
39.4%	42.1%	40.7%	44.7%	44.7%	44.7%	42.1%
39.4%	42.1%	40.7%	44.7%	44.7%	44.7%	42.1%
39.4%	40.7%	39.4%	44.7%	44.7%	44.7%	42.1%
39.4%	42.1%	40.7%	44.7%	44.7%	44.7%	42.1%
38.1%	39.4%	38.1%	44.7%	44.7%	44.7%	42.1%
34.2%	36.8%	35.5%	36.8%	36.8%	36.8%	34.2%
36.8%	38.1%	36.8%	42.1%	40.7%	43.4%	41.3%
38.1%	35.5%	36.0%	43.4%	42.1%	43.4%	40.7%
38.1%	35.5%	36.0%	43.4%	42.1%	43.4%	40.7%
35.5%	34.2%	34.6%	42.1%	40.7%	42.1%	38.1%
36.8%	36.8%	35.5%	40.7%	40.7%	42.1%	40.7%
98.6%	81.5%	80.2%	38.1%	39.4%	38.1%	34.2%
ID	81.5%	80.2%	38.1%	39.4%	38.1%	34.2%
81.5%	ID	98.6%	36.8%	42.1%	39.4%	32.8%
80.2%	98.6%	ID	36.8%	42.1%	39.4%	32.8%
38.1%	36.8%	36.8%	ID	81.5%	80.2%	77.6%
39.4%	42.1%	42.1%	81.5%	ID	78.9%	75.0%
38.1%	39.4%	39.4%	80.2%	78.9%	ID	84.2%
34.2%	32.8%	32.8%	77.6%	75.0%	84.2%	ID
32.8%	35.5%	35.5%	72.3%	72.3%	77.6%	71.0%
34.2%	34.2%	34.2%	71.0%	71.0%	76.3%	77.6%
43.4%	46.0%	44.7%	52.6%	53.9%	53.9%	48.6%
43.4%	46.0%	44.7%	52.6%	53.9%	53.9%	48.6%
43.4%	46.0%	44.7%	52.6%	53.9%	53.9%	48.6%
43.4%	46.0%	44.7%	52.6%	53.9%	53.9%	50.0%
43.4%	46.0%	44.7%	53.9%	53.9%	53.9%	48.6%
40.7%	44.7%	43.4%	53.9%	53.9%	52.6%	48.6%
36.3%	40.2%	38.9%	51.9%	49.3%	50.6%	48.0%
39.4%	43.4%	42.1%	48.6%	50.0%	50.0%	47.3%
31.5%	36.8%	35.5%	36.8%	40.7%	40.7%	34.2%
40.7%	46.0%	44.7%	47.3%	53.9%	48.6%	46.0%
36.8%	40.7%	39.4%	43.4%	44.7%	43.4%	42.1%
36.8%	38.1%	38.1%	39.4%	39.4%	40.7%	38.1%
36.8%	39.4%	39.4%	40.7%	40.7%	42.1%	39.4%
36.8%	39.4%	39.4%	42.1%	40.7%	42.1%	38.1%
25.0%	28.9%	28.9%	36.8%	36.8%	40.7%	35.5%

SSP-TY1-4	SSP-TY1-14	SSP-TY1-22	SSP-TY1-33	SSP-TY1-5	SSP-TY1-23	SSP-TY1-39
39.4%	43.4%	43.4%	43.4%	43.4%	43.4%	43.4%
38.1%	42.1%	42.1%	42.1%	42.1%	42.1%	42.1%
40.7%	42.1%	42.1%	42.1%	42.1%	42.1%	42.1%
39.4%	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
39.4%	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
39.4%	43.4%	42.1%	42.1%	42.1%	42.1%	42.1%
38.1%	42.1%	40.7%	40.7%	40.7%	40.7%	40.7%
39.4%	42.1%	42.1%	42.1%	42.1%	42.1%	42.1%
42.1%	47.3%	44.7%	44.7%	44.7%	44.7%	44.7%
42.1%	47.3%	44.7%	44.7%	44.7%	44.7%	44.7%
42.1%	47.3%	43.4%	43.4%	43.4%	43.4%	43.4%
42.1%	47.3%	44.7%	44.7%	44.7%	44.7%	44.7%
40.7%	47.3%	43.4%	43.4%	43.4%	43.4%	43.4%
35.5%	40.7%	36.8%	36.8%	36.8%	36.8%	36.8%
39.4%	43.4%	39.4%	39.4%	39.4%	39.4%	39.4%
39.4%	44.7%	38.1%	38.1%	38.1%	38.1%	38.1%
39.4%	44.7%	38.1%	38.1%	38.1%	38.1%	38.1%
38.1%	42.1%	39.4%	39.4%	39.4%	39.4%	39.4%
38.1%	42.1%	38.1%	38.1%	38.1%	38.1%	36.8%
34.2%	34.2%	43.4%	43.4%	43.4%	43.4%	43.4%
32.8%	34.2%	43.4%	43.4%	43.4%	43.4%	43.4%
35.5%	34.2%	46.0%	46.0%	46.0%	46.0%	46.0%
35.5%	34.2%	44.7%	44.7%	44.7%	44.7%	44.7%
72.3%	71.0%	52.6%	52.6%	52.6%	52.6%	53.9%
72.3%	71.0%	53.9%	53.9%	53.9%	53.9%	53.9%
77.6%	76.3%	53.9%	53.9%	53.9%	53.9%	53.9%
71.0%	77.6%	48.6%	48.6%	48.6%	50.0%	48.6%
ID	69.7%	50.0%	50.0%	50.0%	50.0%	50.0%
69.7%	ID	47.3%	47.3%	47.3%	48.6%	47.3%
50.0%	47.3%	ID	100.0%	100.0%	98.6%	97.3%
50.0%	47.3%	100.0%	ID	100.0%	98.6%	97.3%
50.0%	47.3%	100.0%	100.0%	ID	98.6%	97.3%
50.0%	48.6%	98.6%	98.6%	98.6%	ID	97.3%
50.0%	47.3%	97.3%	97.3%	97.3%	97.3%	ID
51.3%	51.3%	81.5%	81.5%	81.5%	81.5%	81.5%
46.7%	44.1%	72.7%	72.7%	72.7%	72.7%	72.7%
46.0%	47.3%	72.3%	72.3%	72.3%	72.3%	71.0%
35.5%	36.8%	55.2%	55.2%	55.2%	53.9%	53.9%
48.6%	51.3%	71.0%	71.0%	71.0%	72.3%	71.0%
40.7%	44.7%	67.1%	67.1%	67.1%	68.4%	67.1%
35.5%	40.7%	39.4%	39.4%	39.4%	40.7%	38.1%
36.8%	40.7%	40.7%	40.7%	40.7%	42.1%	39.4%
36.8%	39.4%	40.7%	40.7%	40.7%	40.7%	39.4%
36.8%	34.2%	38.1%	38.1%	38.1%	38.1%	38.1%

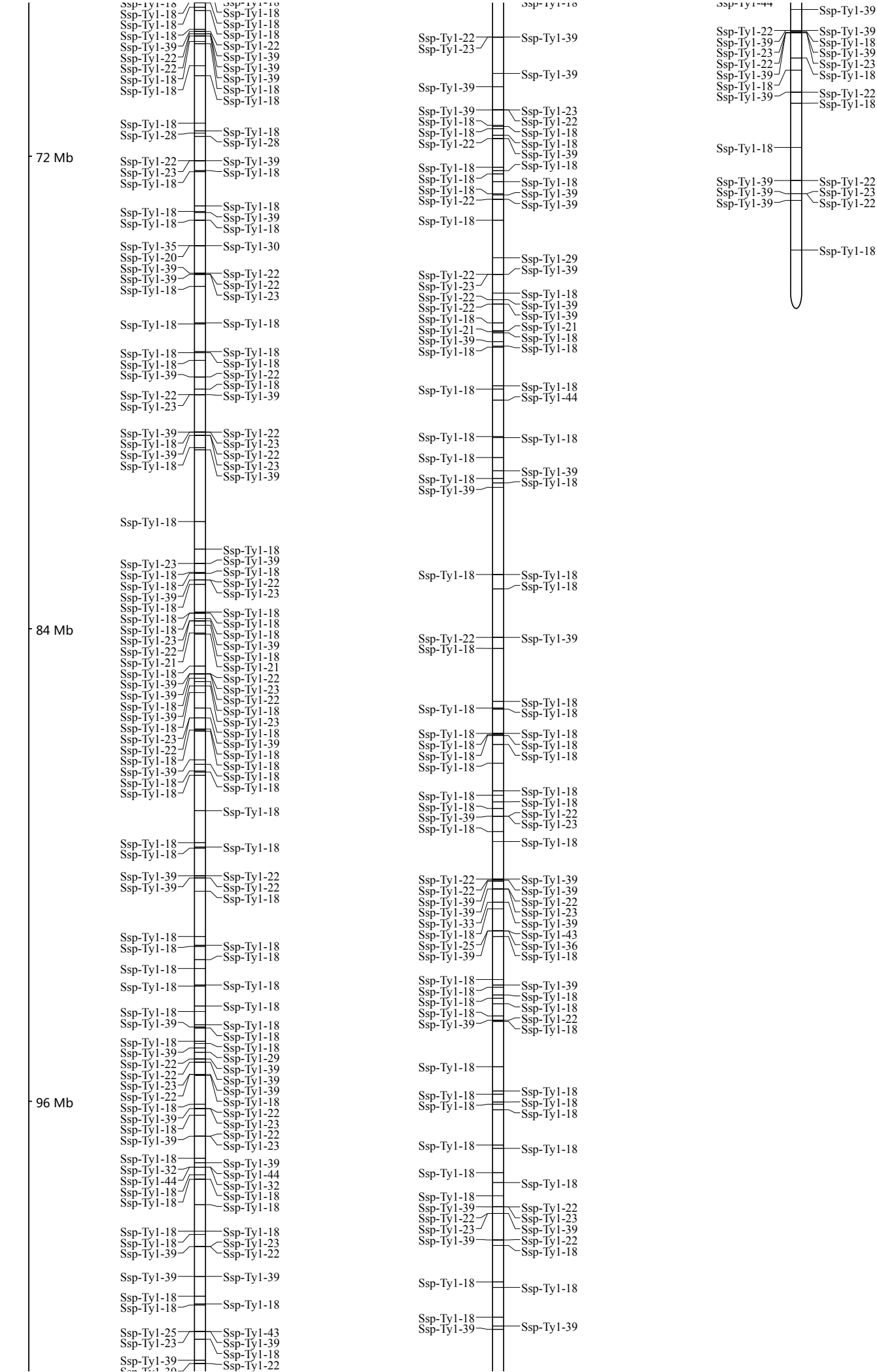
SSP-TY1-28	SSP-TY1-36	SSP-TY1-9	SSP-TY1-42	SSP-TY1-29	SSP-TY1-31	SSP-TY1-27
42.1%	37.6%	44.7%	34.2%	46.0%	39.4%	40.7%
40.7%	36.3%	43.4%	32.8%	44.7%	38.1%	39.4%
40.7%	36.3%	44.7%	34.2%	44.7%	38.1%	39.4%
40.7%	37.6%	43.4%	34.2%	44.7%	38.1%	39.4%
40.7%	37.6%	43.4%	34.2%	44.7%	38.1%	39.4%
42.1%	37.6%	44.7%	34.2%	46.0%	39.4%	40.7%
40.7%	36.3%	43.4%	32.8%	44.7%	38.1%	39.4%
42.1%	37.6%	44.7%	34.2%	46.0%	39.4%	40.7%
47.3%	41.5%	43.4%	36.8%	47.3%	44.7%	39.4%
47.3%	41.5%	43.4%	36.8%	47.3%	44.7%	39.4%
46.0%	41.5%	42.1%	36.8%	46.0%	43.4%	38.1%
46.0%	40.2%	43.4%	36.8%	48.6%	43.4%	39.4%
44.7%	41.5%	40.7%	35.5%	44.7%	42.1%	36.8%
39.4%	33.7%	38.1%	30.2%	39.4%	36.8%	32.8%
42.1%	37.6%	40.7%	32.8%	42.1%	39.4%	38.1%
38.1%	33.7%	39.4%	30.2%	42.1%	36.8%	40.7%
38.1%	33.7%	39.4%	30.2%	42.1%	36.8%	40.7%
39.4%	35.0%	38.1%	31.5%	42.1%	38.1%	39.4%
38.1%	38.1%	40.7%	32.8%	40.7%	34.2%	40.7%
40.7%	36.3%	39.4%	31.5%	40.7%	36.8%	36.8%
40.7%	36.3%	39.4%	31.5%	40.7%	36.8%	36.8%
44.7%	40.2%	43.4%	36.8%	46.0%	40.7%	38.1%
43.4%	38.9%	42.1%	35.5%	44.7%	39.4%	38.1%
53.9%	51.9%	48.6%	36.8%	47.3%	43.4%	39.4%
53.9%	49.3%	50.0%	40.7%	53.9%	44.7%	39.4%
52.6%	50.6%	50.0%	40.7%	48.6%	43.4%	40.7%
48.6%	48.0%	47.3%	34.2%	46.0%	42.1%	38.1%
51.3%	46.7%	46.0%	35.5%	48.6%	40.7%	35.5%
51.3%	44.1%	47.3%	36.8%	51.3%	44.7%	40.7%
81.5%	72.7%	72.3%	55.2%	71.0%	67.1%	39.4%
81.5%	72.7%	72.3%	55.2%	71.0%	67.1%	39.4%
81.5%	72.7%	72.3%	55.2%	71.0%	67.1%	39.4%
81.5%	72.7%	72.3%	53.9%	72.3%	68.4%	40.7%
81.5%	72.7%	71.0%	53.9%	71.0%	67.1%	38.1%
ID	79.2%	73.6%	55.2%	78.9%	69.7%	39.4%
79.2%	ID	70.1%	50.6%	66.2%	55.8%	33.7%
73.6%	70.1%	ID	48.6%	71.0%	59.2%	40.7%
55.2%	50.6%	48.6%	ID	52.6%	46.0%	31.5%
78.9%	66.2%	71.0%	52.6%	ID	75.0%	39.4%
69.7%	55.8%	59.2%	46.0%	75.0%	ID	32.8%
39.4%	33.7%	40.7%	31.5%	39.4%	32.8%	ID
40.7%	35.0%	42.1%	32.8%	40.7%	34.2%	97.3%
42.1%	36.3%	40.7%	32.8%	39.4%	32.8%	93.4%
38.1%	35.0%	34.2%	30.6%	36.8%	31.5%	32.8%

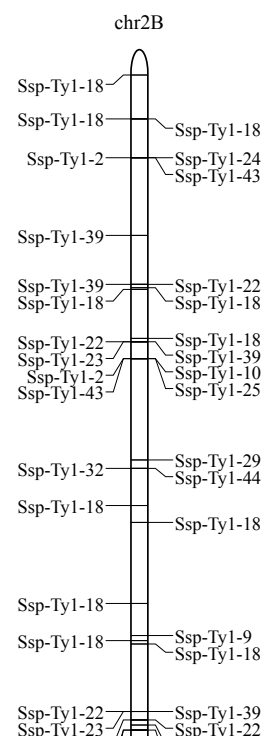
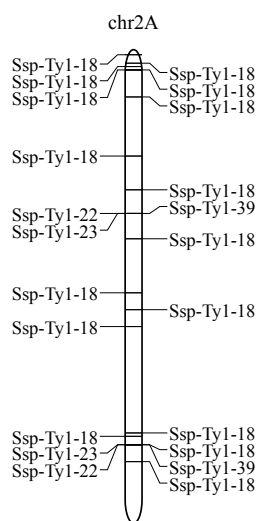
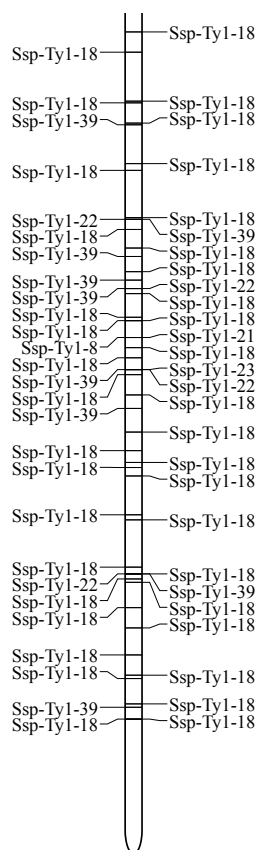
SSP-TY1-40	SSP-TY1-16	SSP-TY1-18
42.1%	43.4%	35.5%
40.7%	42.1%	34.2%
40.7%	42.1%	34.2%
40.7%	42.1%	35.5%
40.7%	42.1%	35.5%
42.1%	43.4%	35.5%
40.7%	42.1%	34.2%
42.1%	43.4%	35.5%
40.7%	40.7%	32.8%
40.7%	40.7%	32.8%
39.4%	39.4%	32.8%
40.7%	40.7%	32.8%
38.1%	38.1%	30.2%
32.8%	32.8%	28.9%
39.4%	39.4%	30.2%
40.7%	40.7%	32.8%
40.7%	40.7%	32.8%
39.4%	39.4%	32.8%
42.1%	42.1%	32.8%
36.8%	36.8%	25.0%
36.8%	36.8%	25.0%
39.4%	39.4%	28.9%
39.4%	39.4%	28.9%
40.7%	42.1%	36.8%
40.7%	40.7%	36.8%
42.1%	42.1%	40.7%
39.4%	38.1%	35.5%
36.8%	36.8%	36.8%
40.7%	39.4%	34.2%
40.7%	40.7%	38.1%
40.7%	40.7%	38.1%
40.7%	40.7%	38.1%
42.1%	40.7%	38.1%
39.4%	39.4%	38.1%
40.7%	42.1%	38.1%
35.0%	36.3%	35.0%
42.1%	40.7%	34.2%
32.8%	32.8%	30.6%
40.7%	39.4%	36.8%
34.2%	32.8%	31.5%
97.3%	93.4%	32.8%
ID	93.4%	34.2%
93.4%	ID	34.2%
34.2%	34.2%	ID

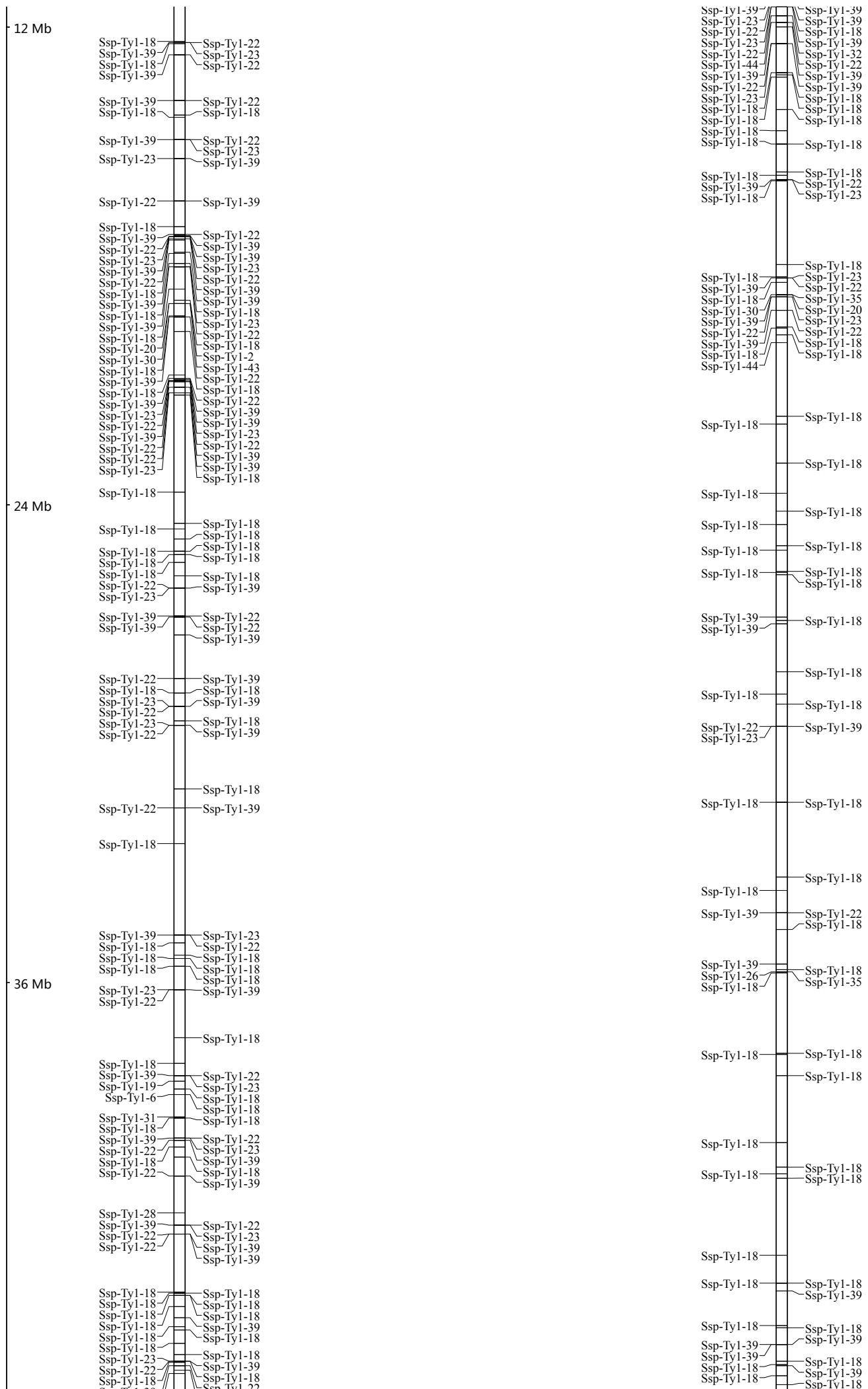
Supplementary material File S1

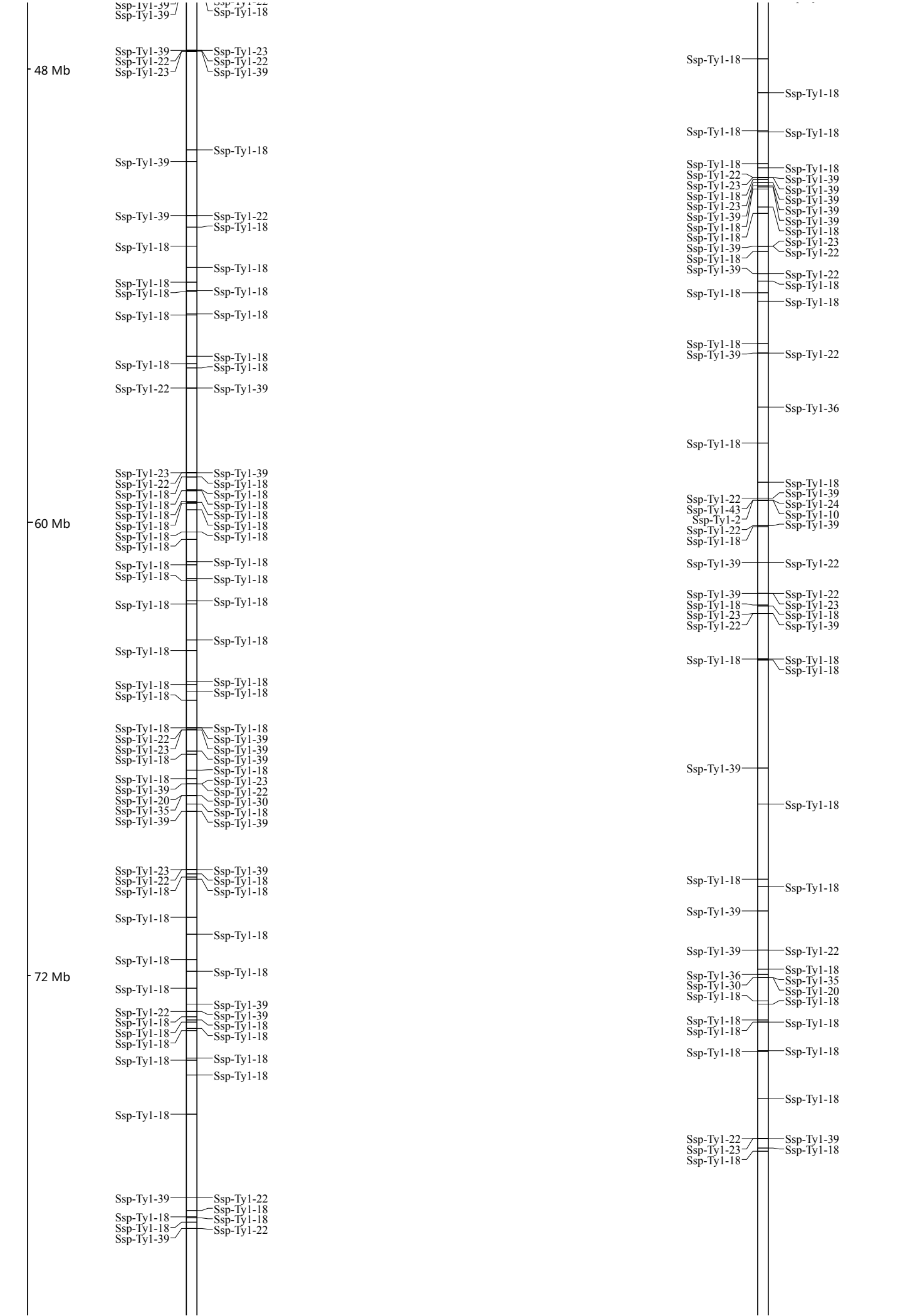


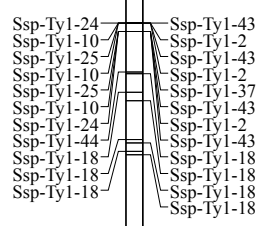


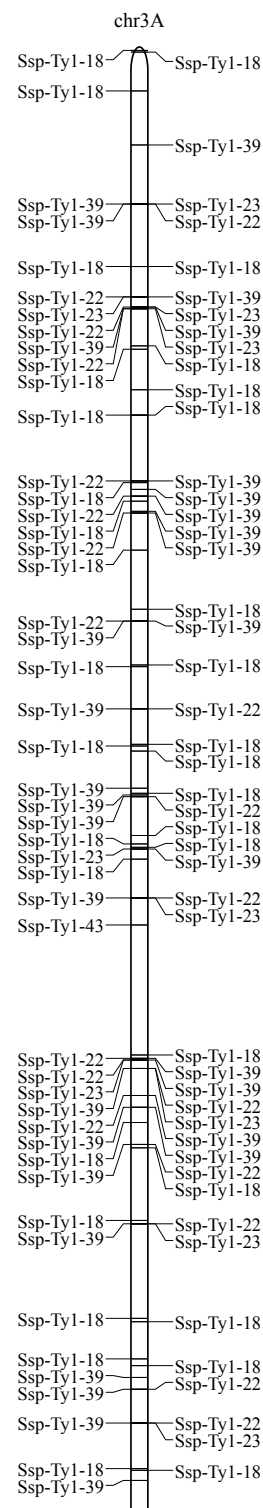
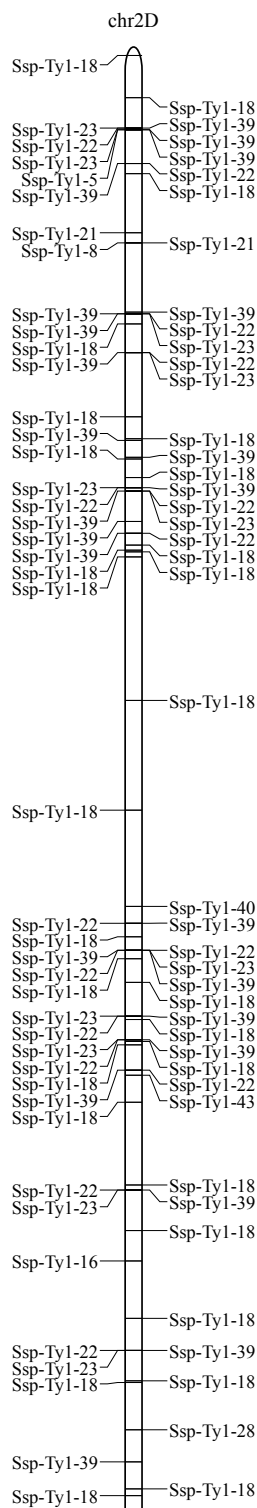




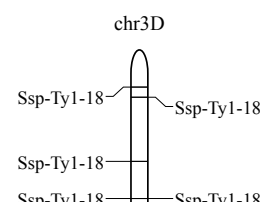
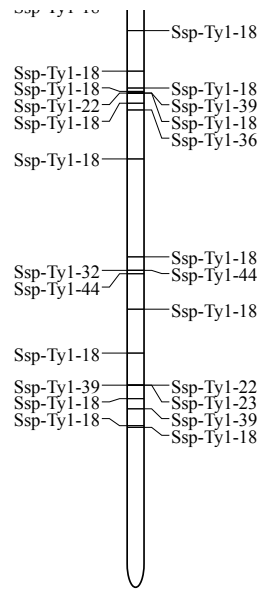






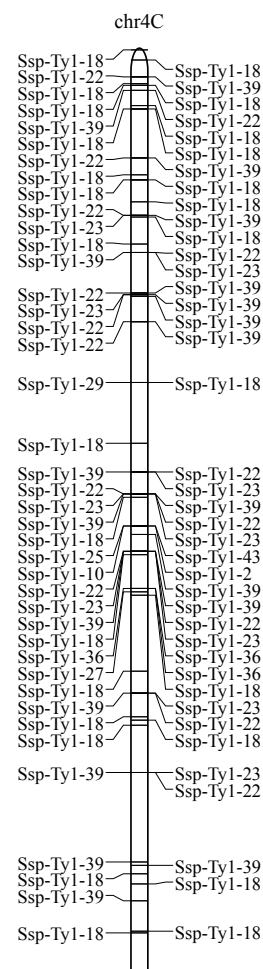
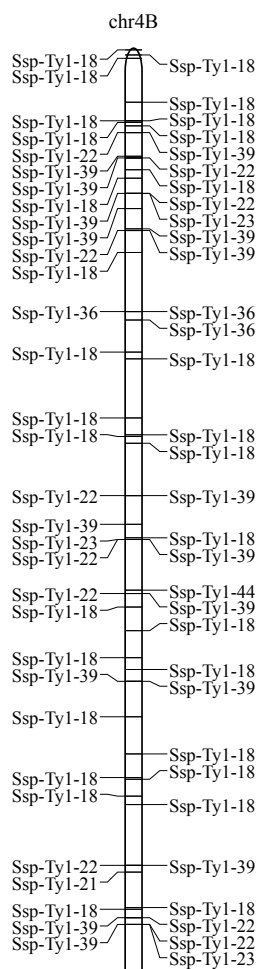
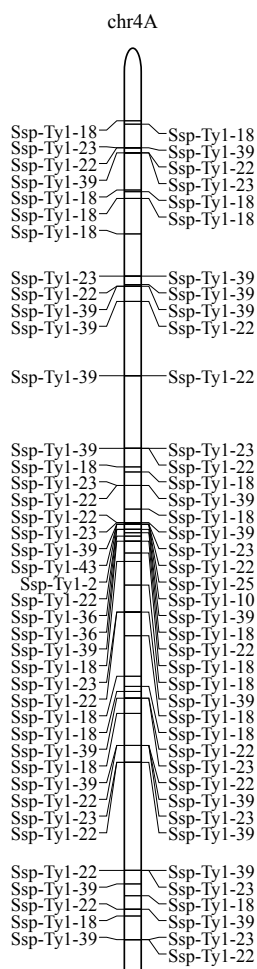


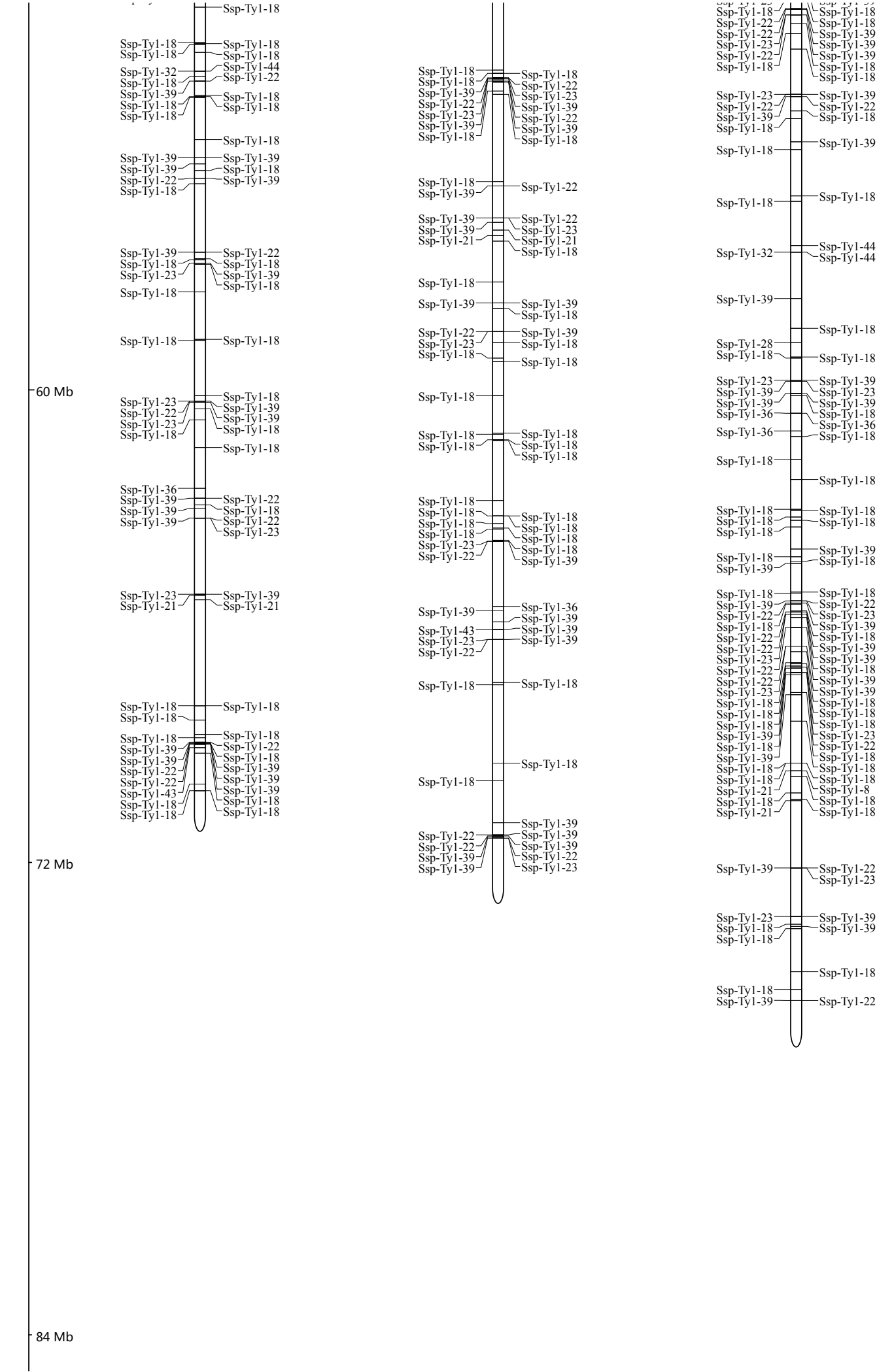








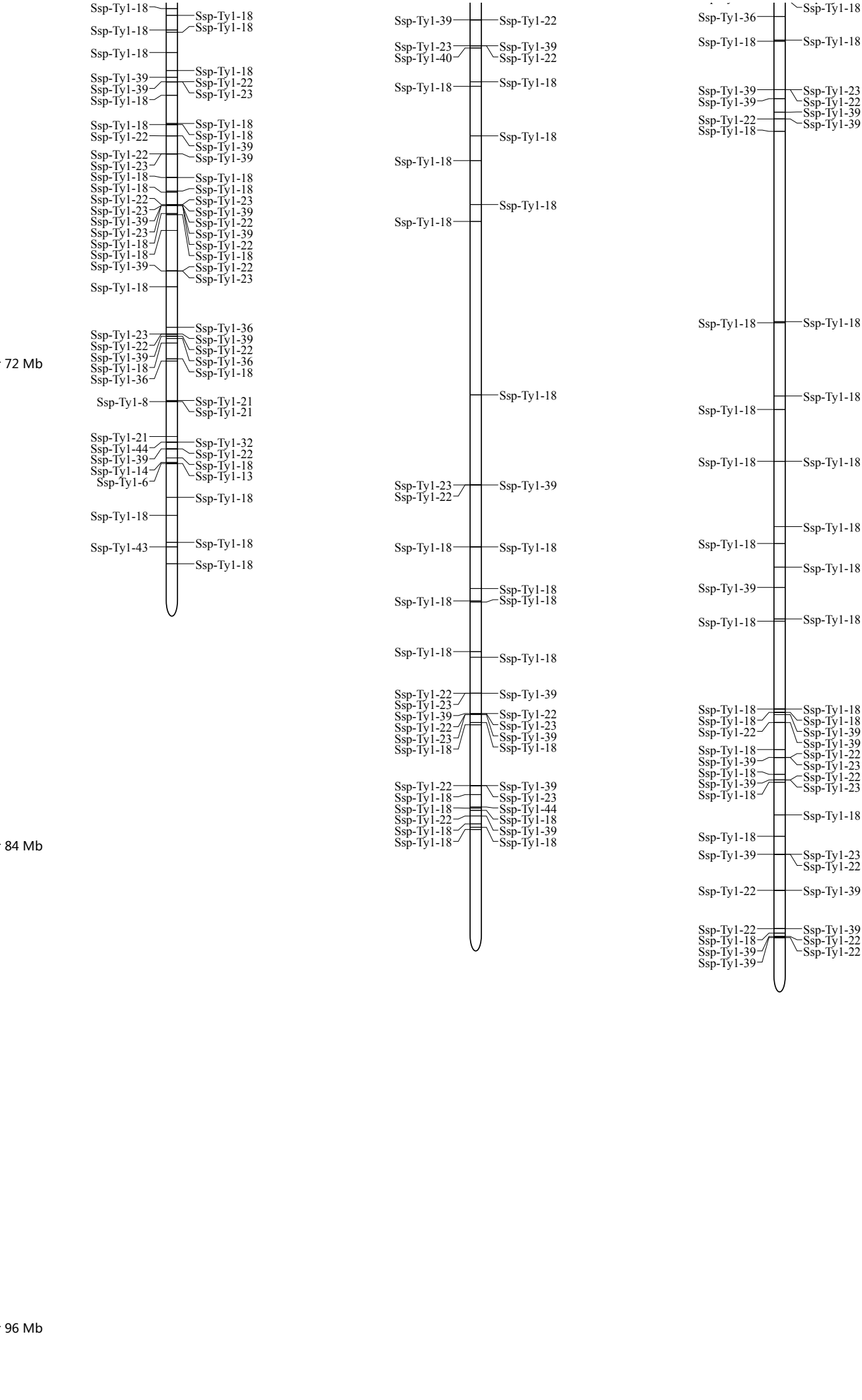


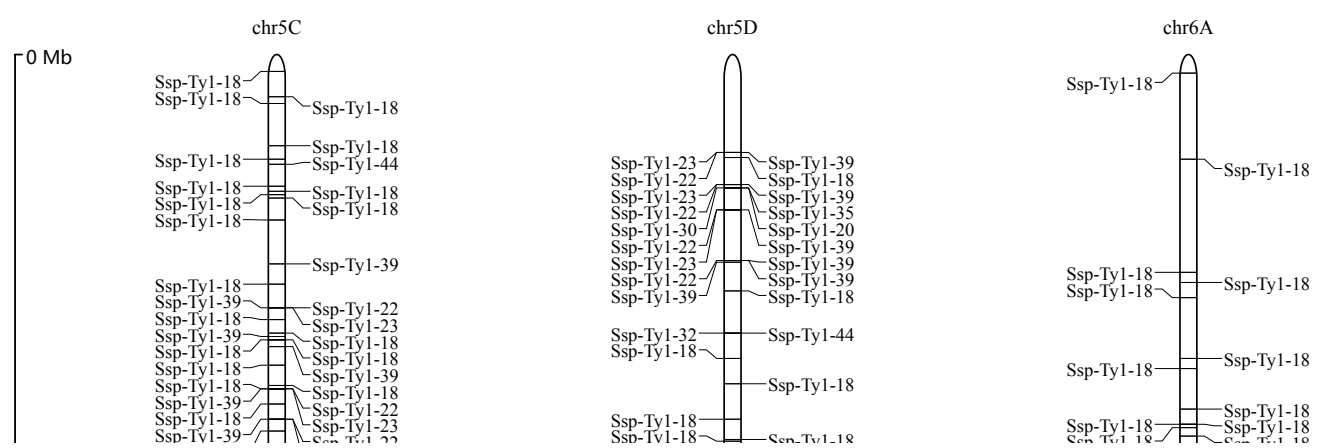


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108 Mb



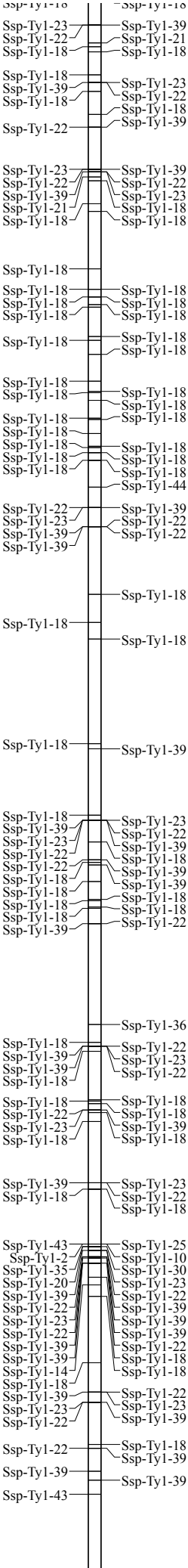
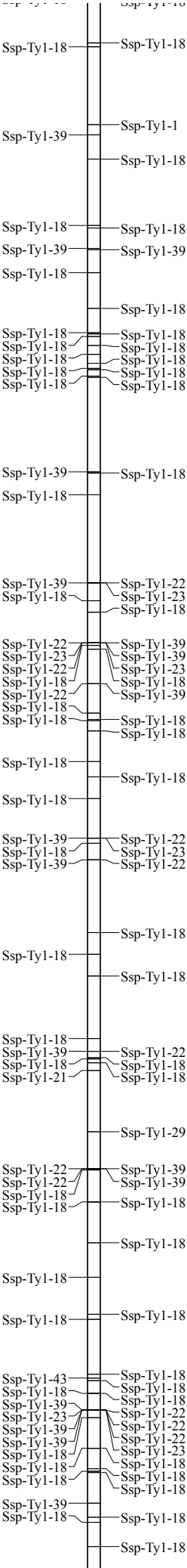
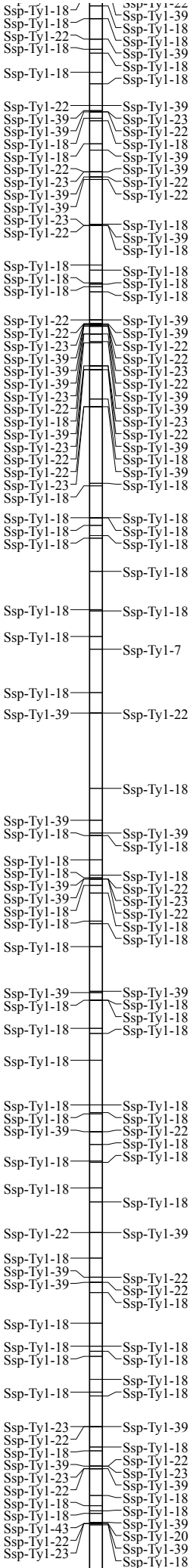


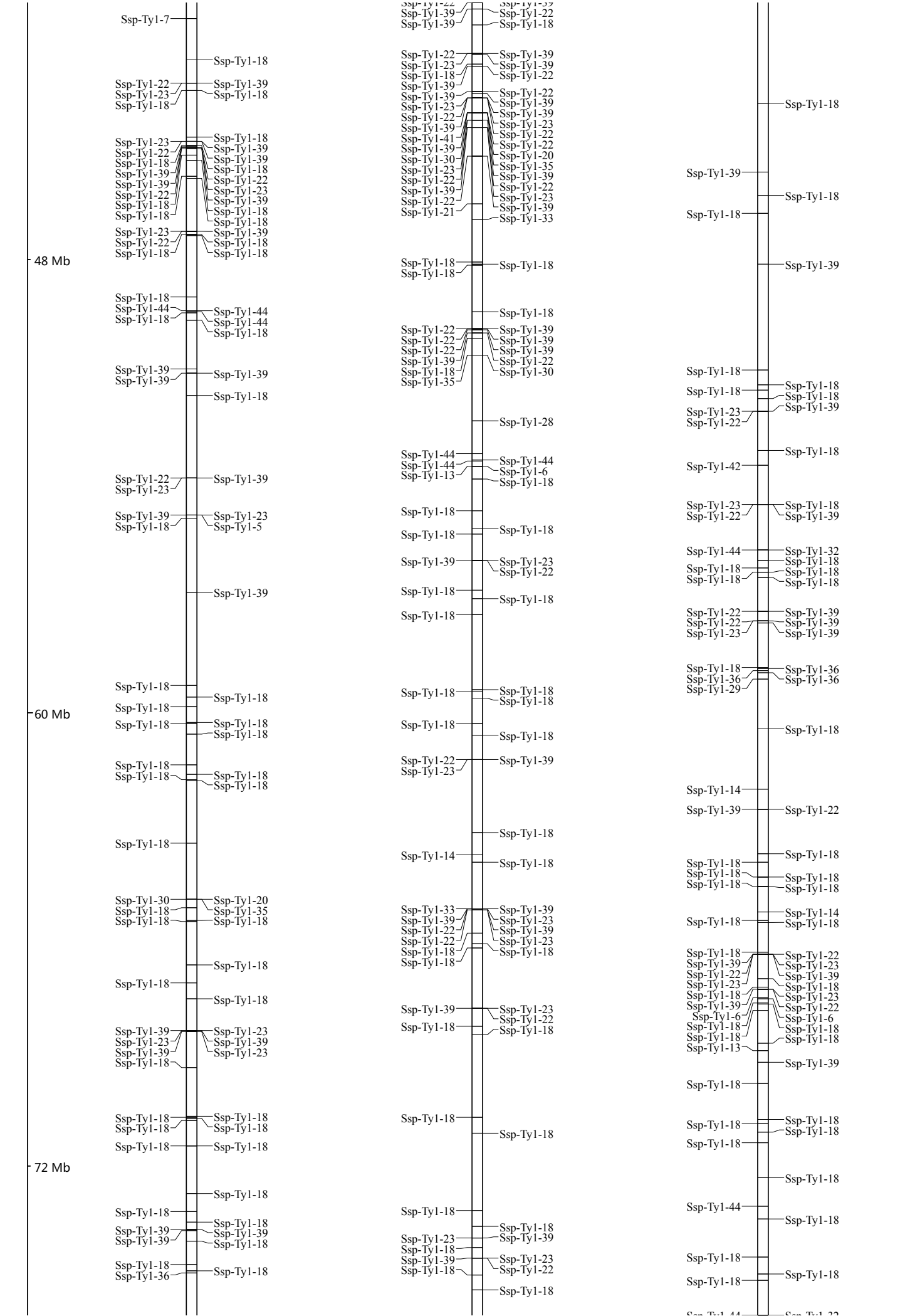


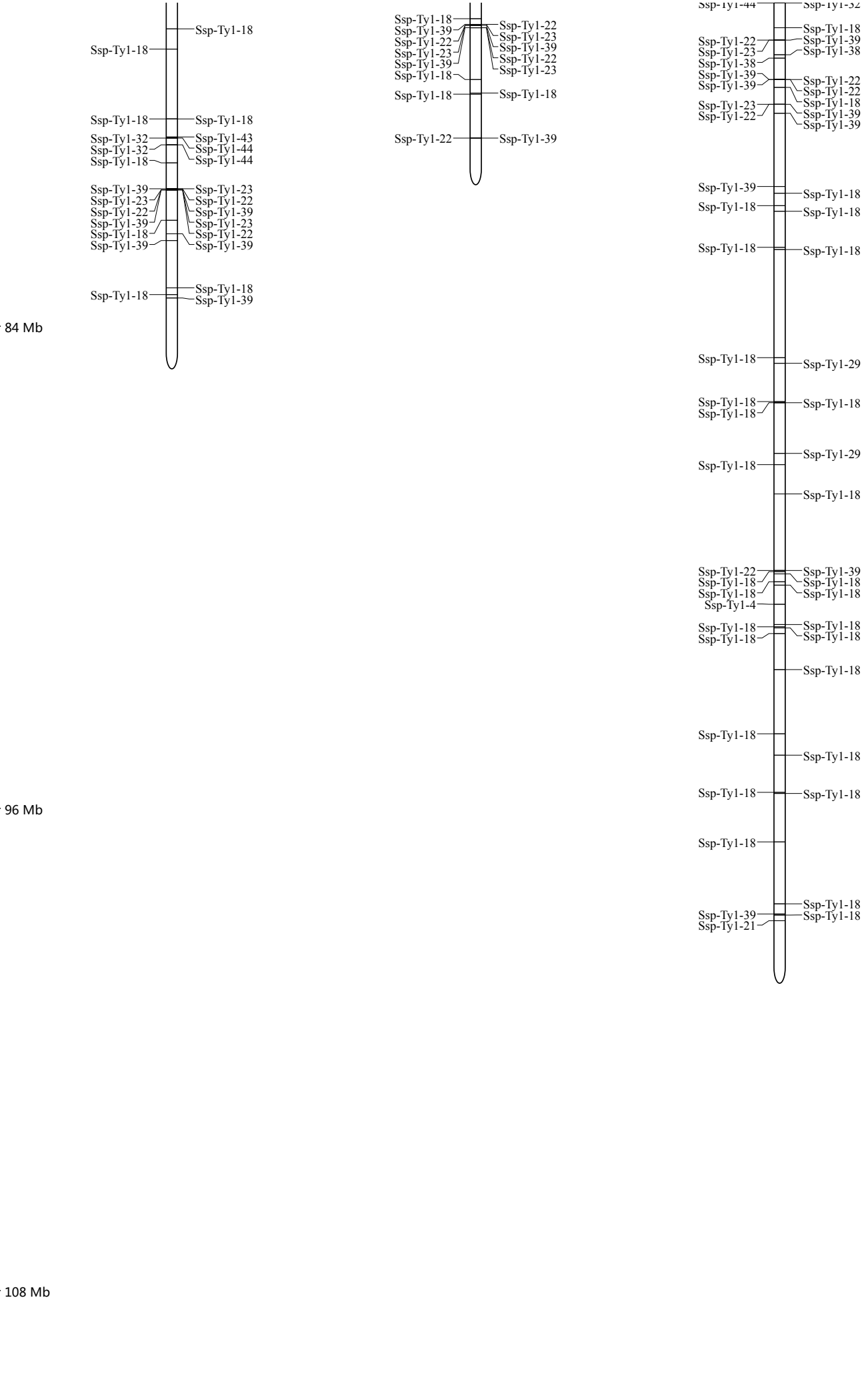
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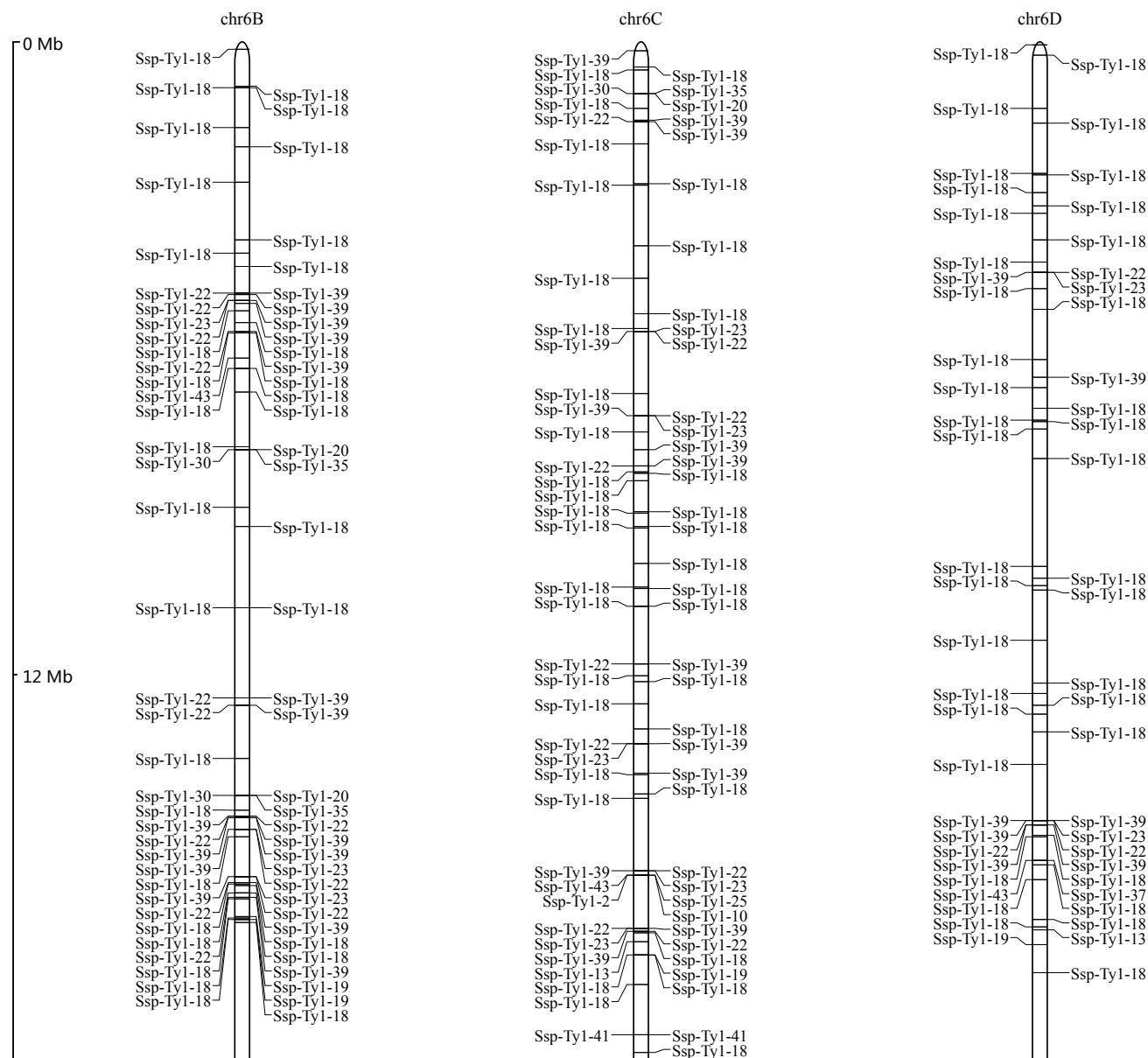
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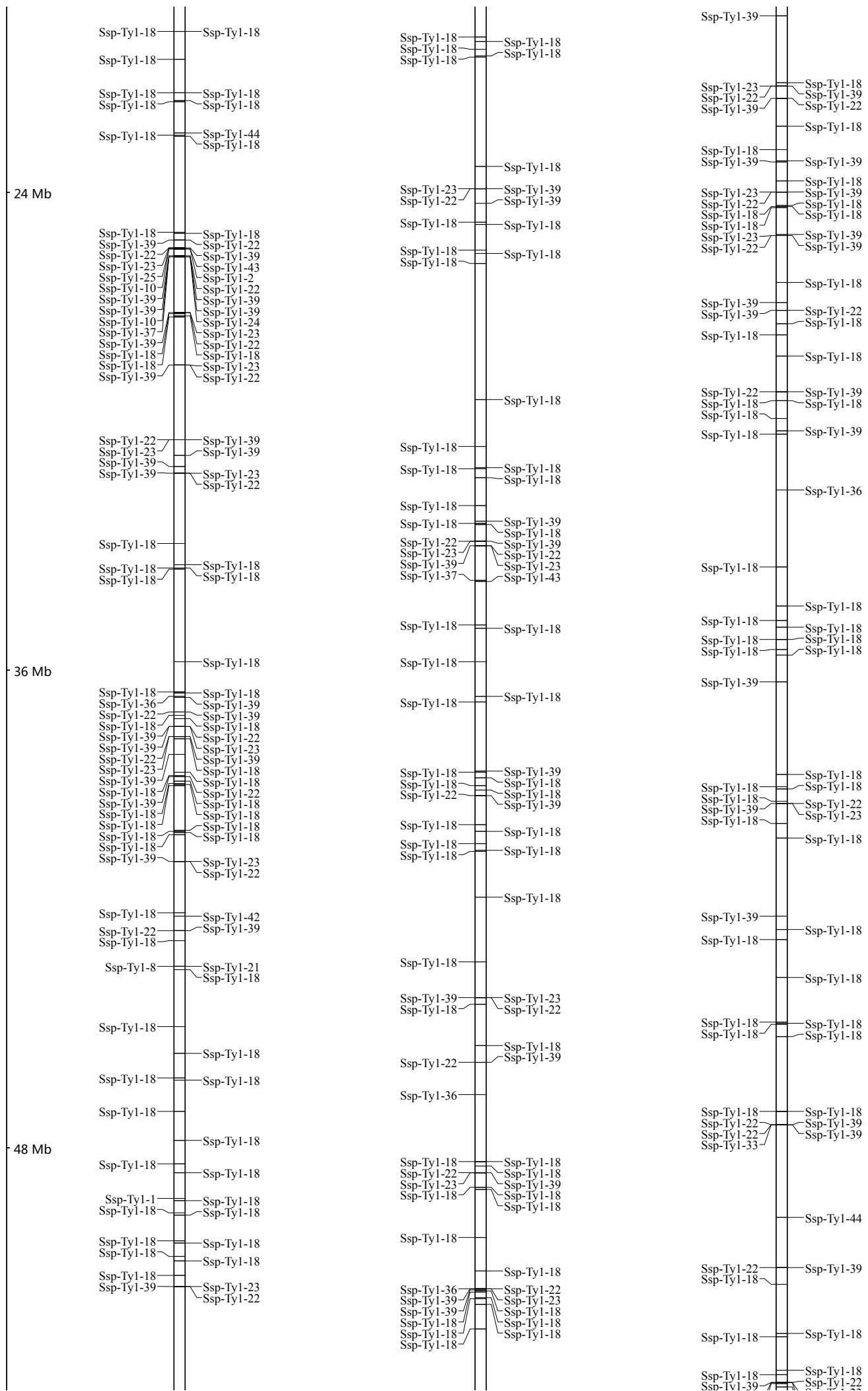
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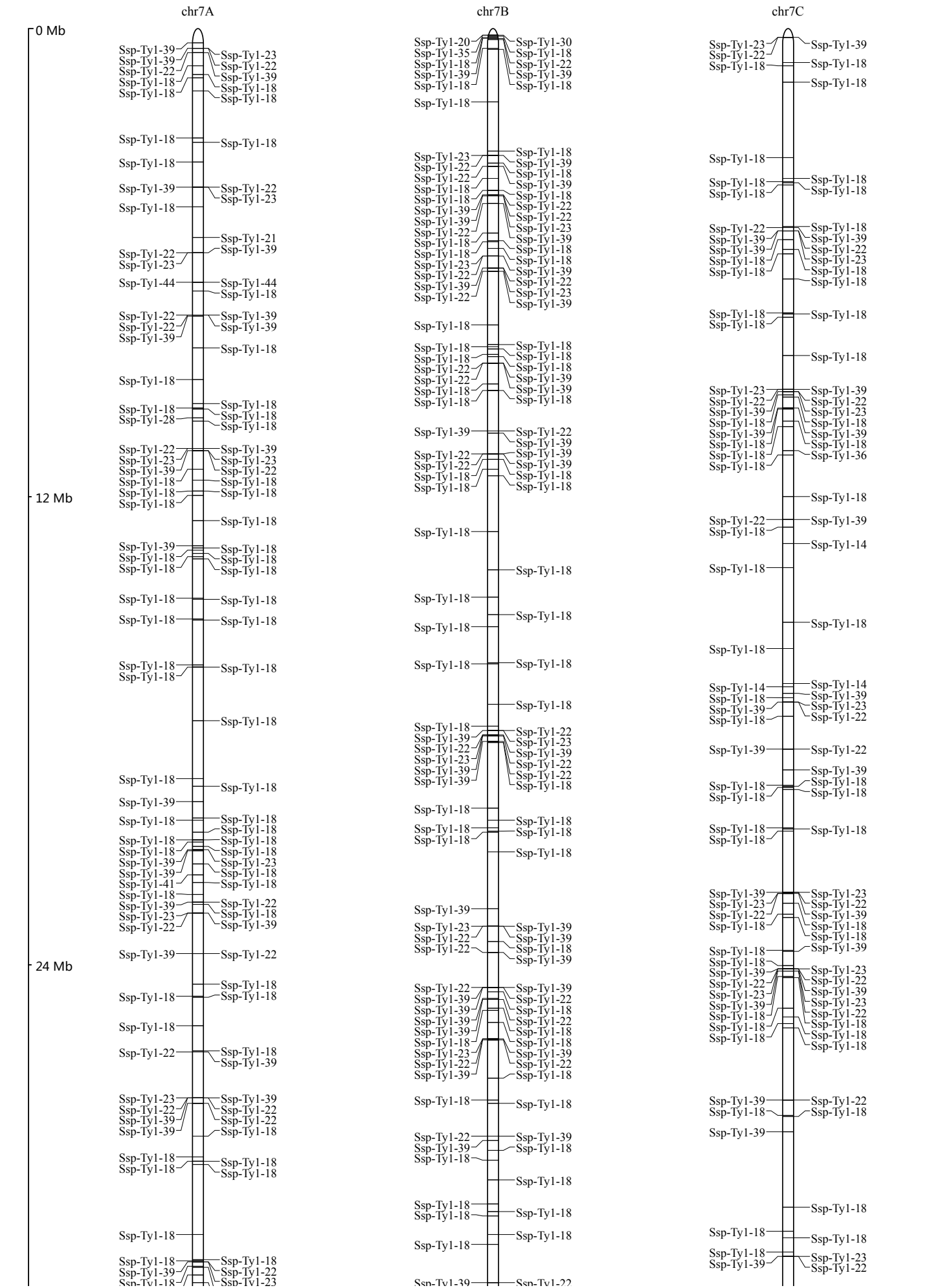




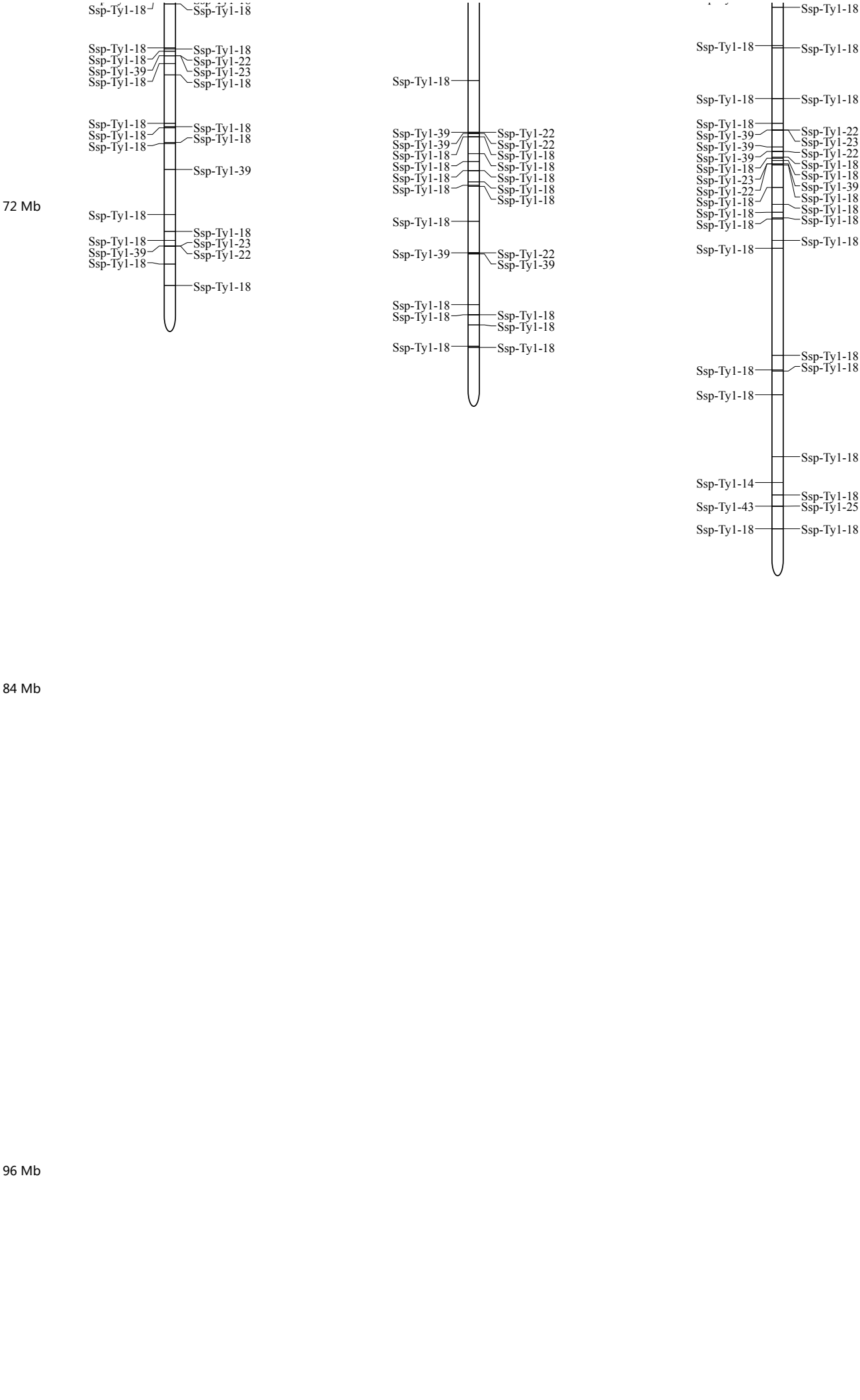
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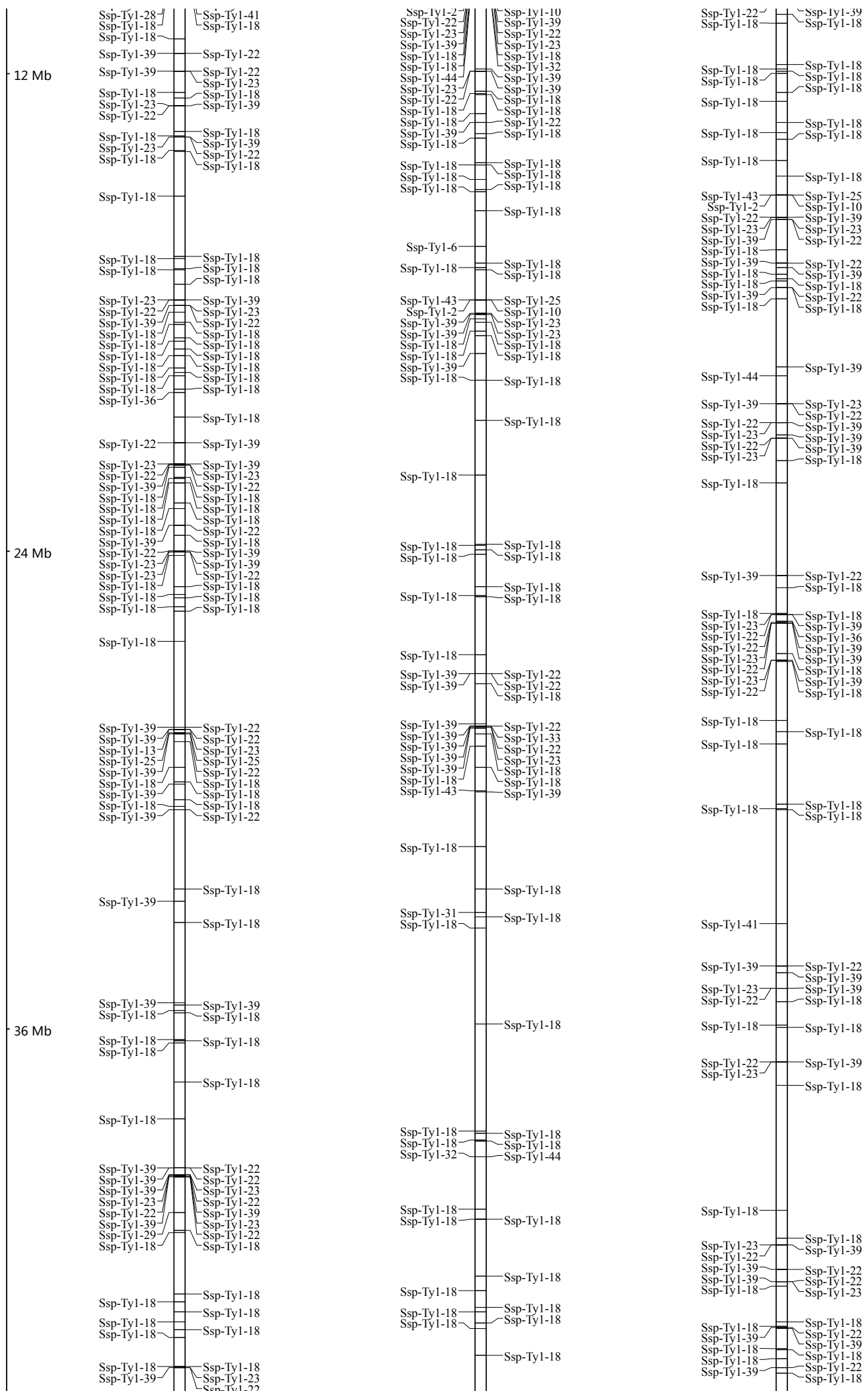
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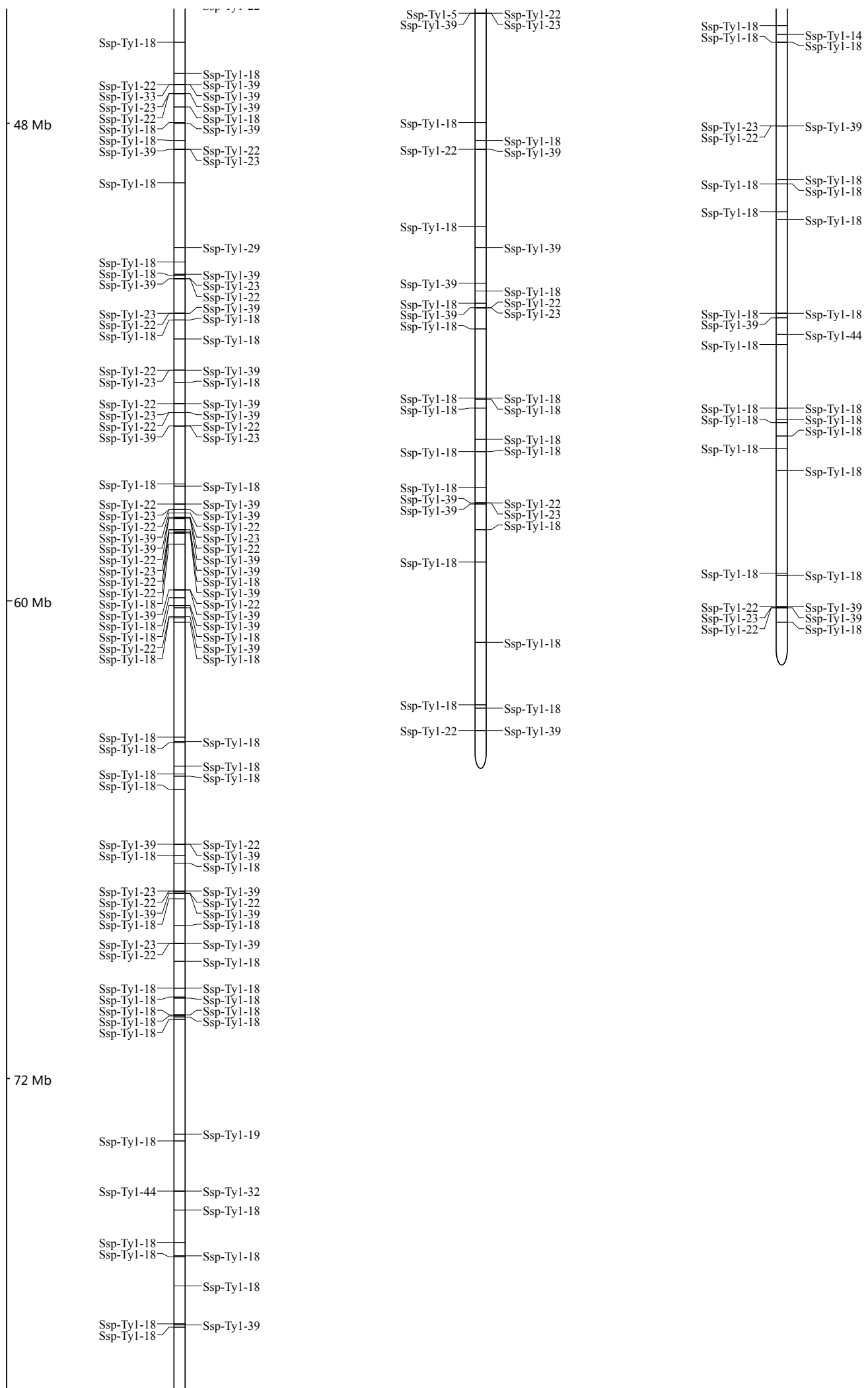
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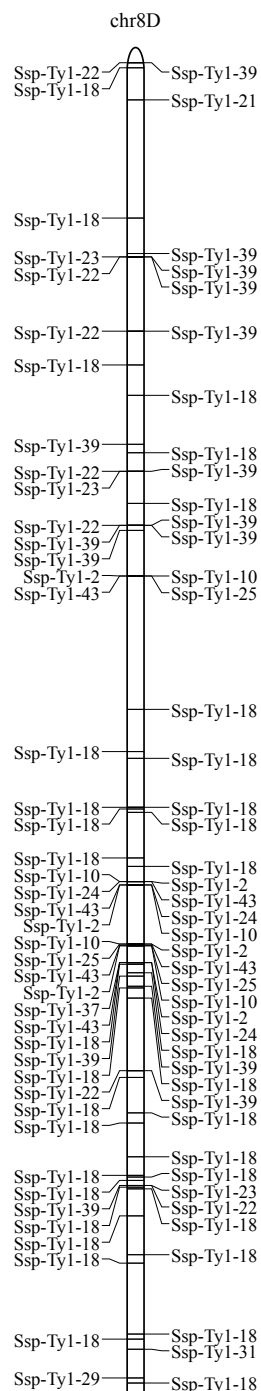
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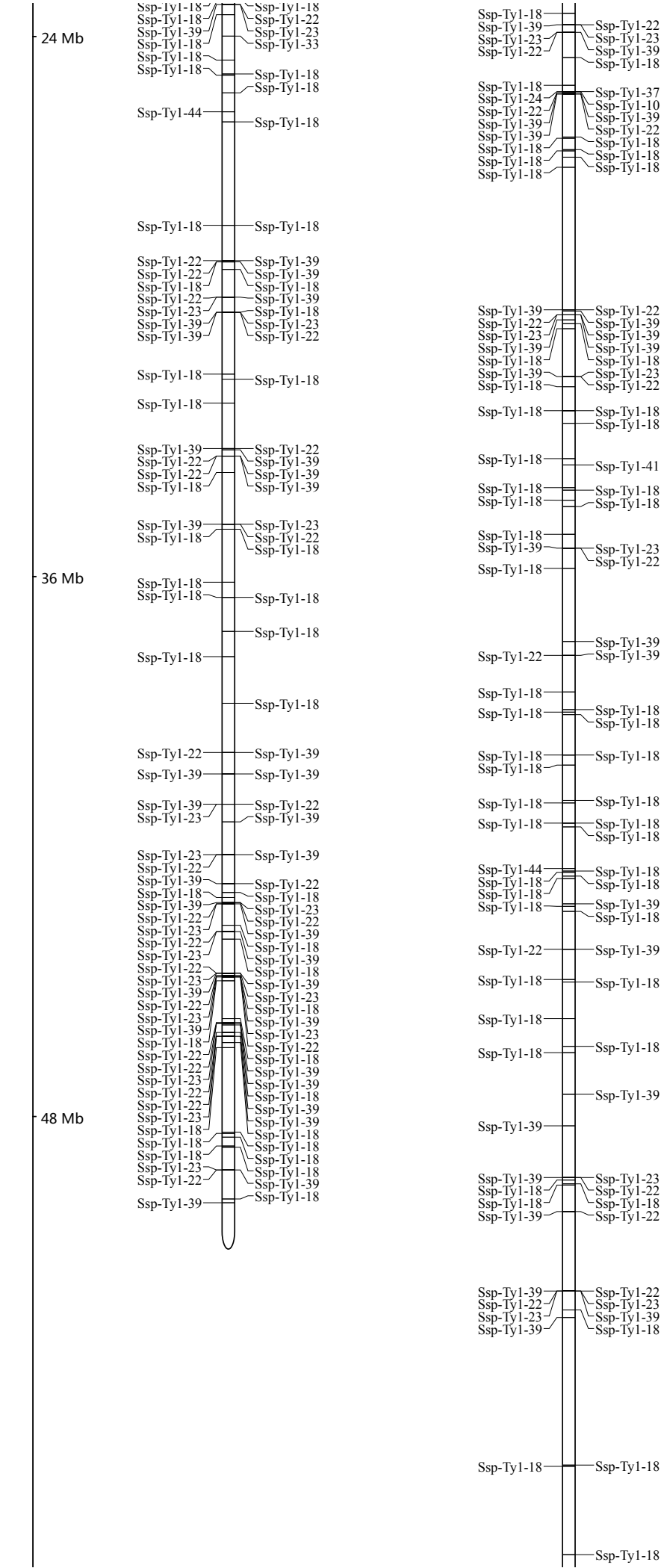
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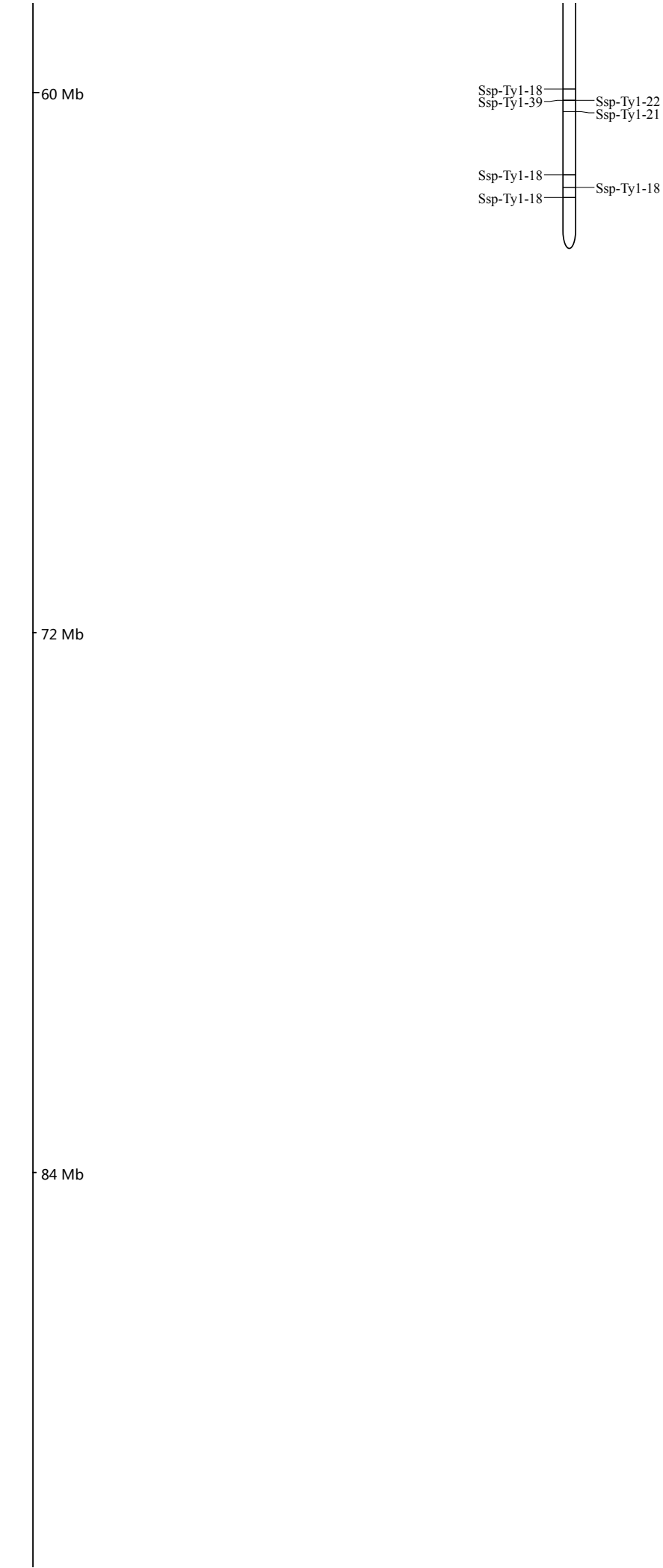
96 Mb

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96 Mb

108 Mb

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