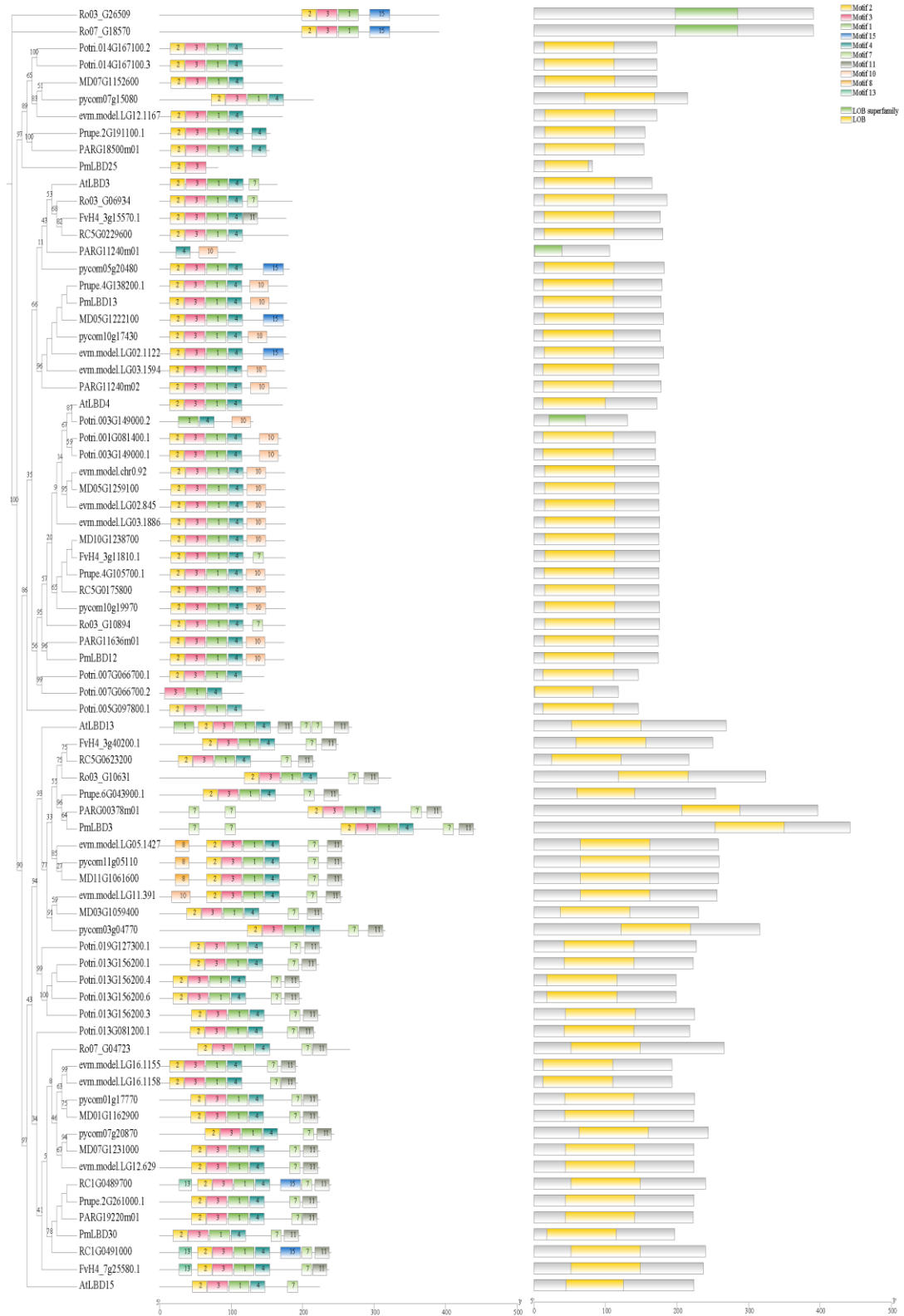
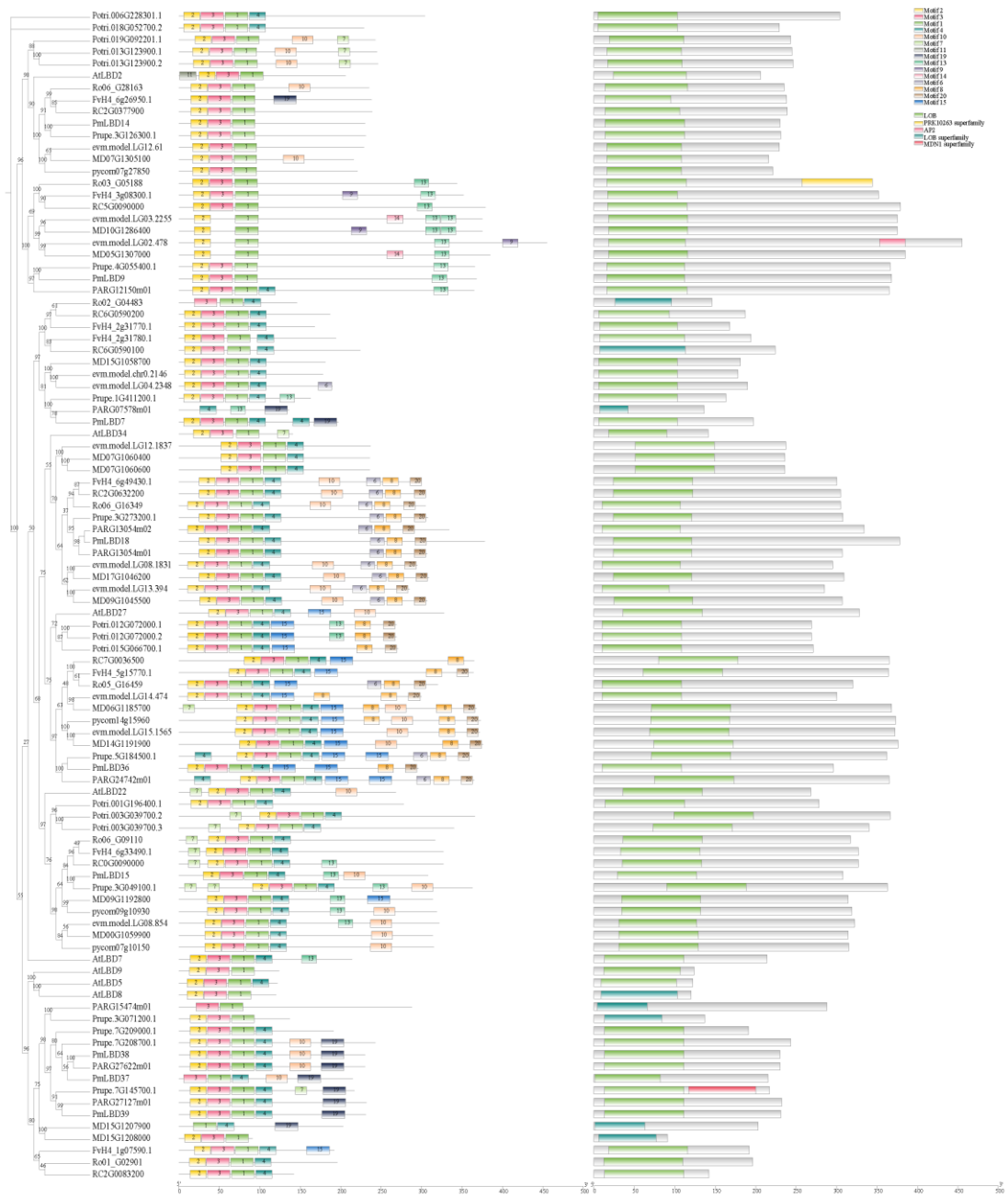


1

2 **Figure S1. Phylogenetic evolutionary tree, motifs distributions, and domains of the subclass Ib**
 3 **subfamily members.**

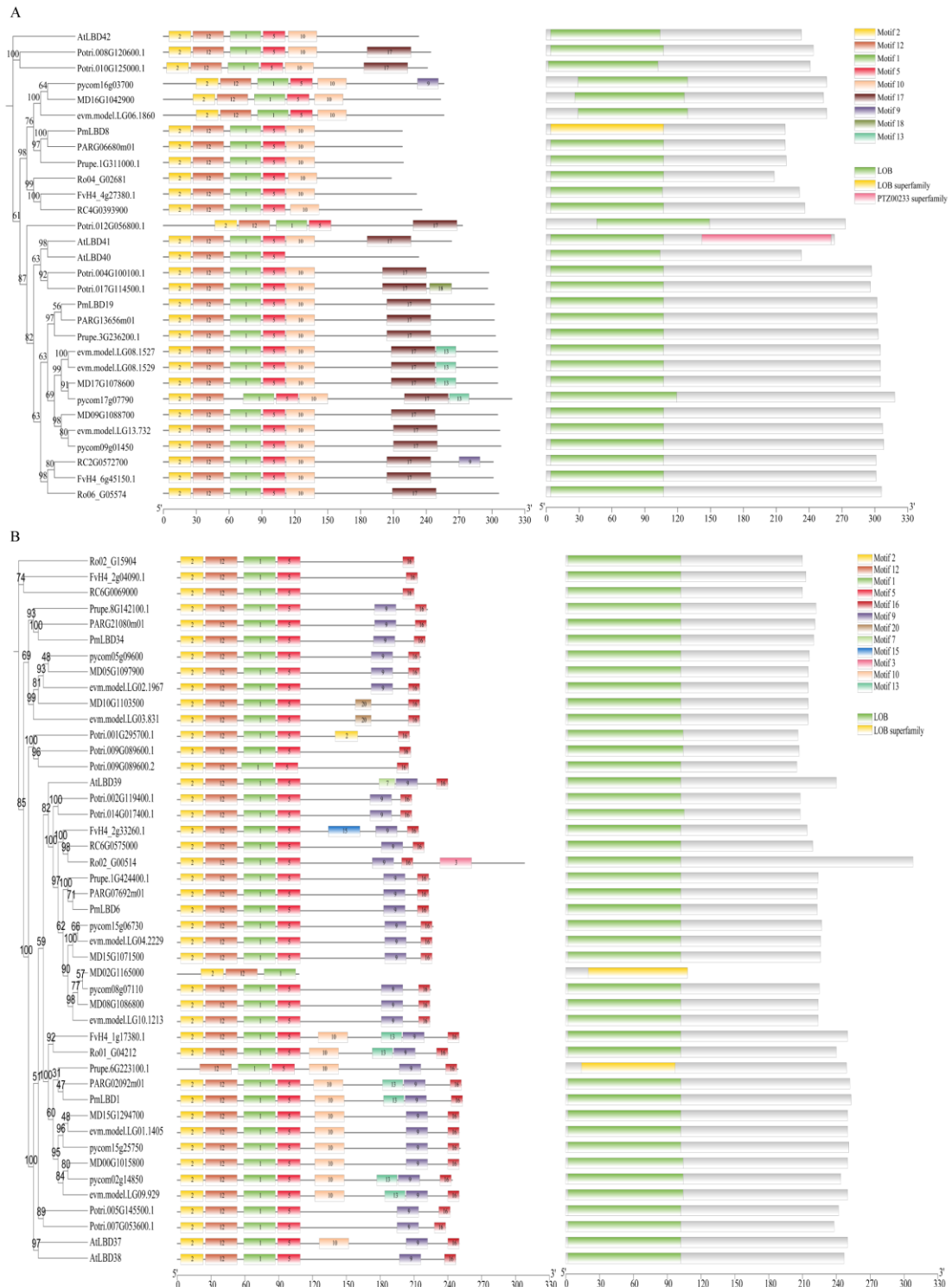


4
 5 **Figure S2. Phylogenetic evolutionary tree, motifs distributions, and domains of the subclass Ic**
 6 **subfamily members.**



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11 **Figure S4. Phylogenetic evolutionary tree, motifs distributions, and domains of the subclass Ie**
 12 **subfamily members.**



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Figure S5. Phylogenetic evolutionary tree, motifs distributions, and domains of the subclass IIa

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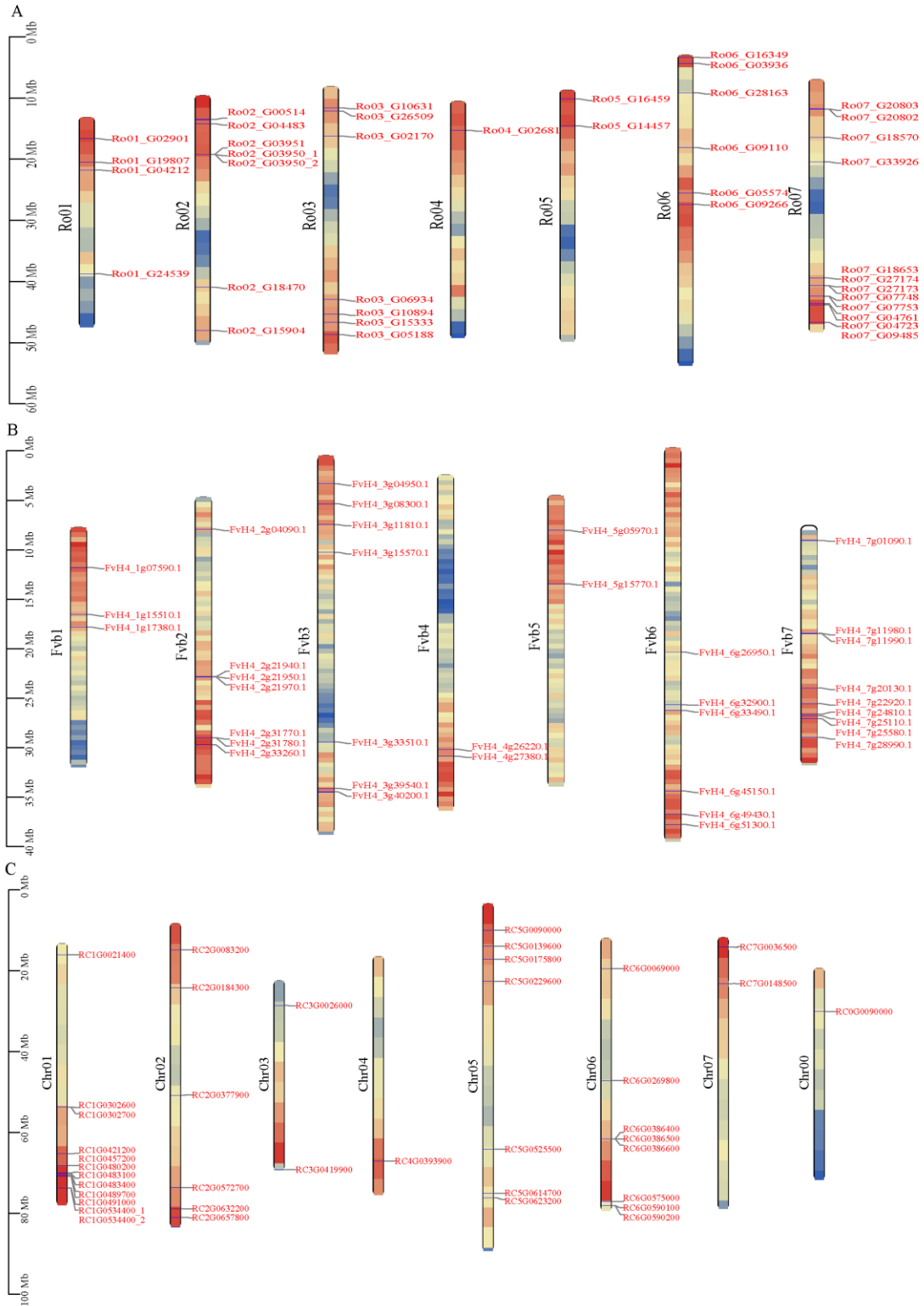
and IIb subfamily members. (A) Phylogenetic evolutionary tree, motifs distributions, and domains of

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the subclass IIa subfamily members. (B) Phylogenetic evolutionary tree, motifs distributions, and

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domains of the subclass IIb subfamily members.

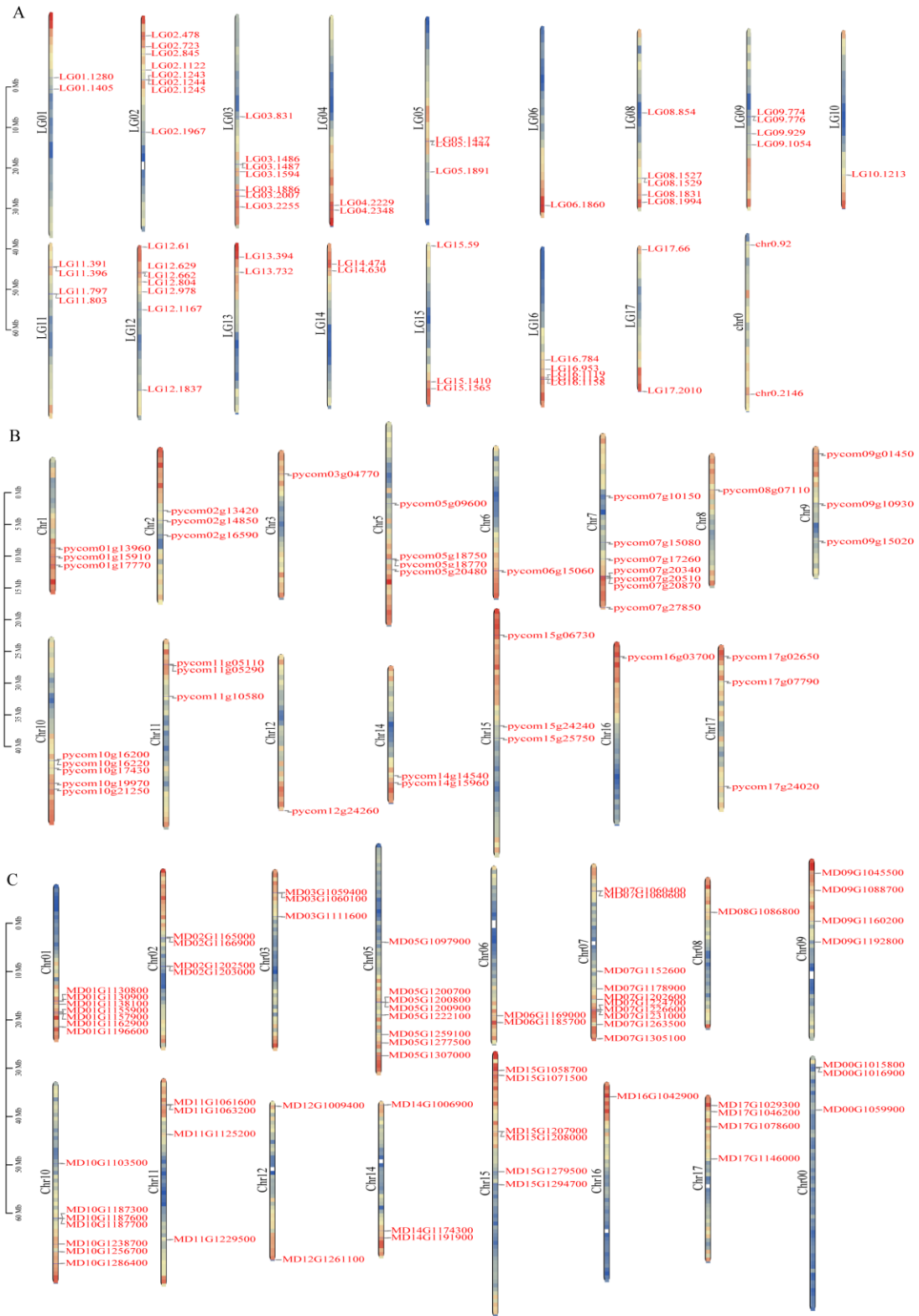


18

19 **Figure S6. Chromosome distribution of LBDs in the Rosoideae.** (A) Chromosome distribution of

20 LBDs in *R. occidentalis*. (B) Chromosome distribution of LBDs in *F. vesca*. (C) Chromosome

21 distribution of LBDs in *R. chinensis*.

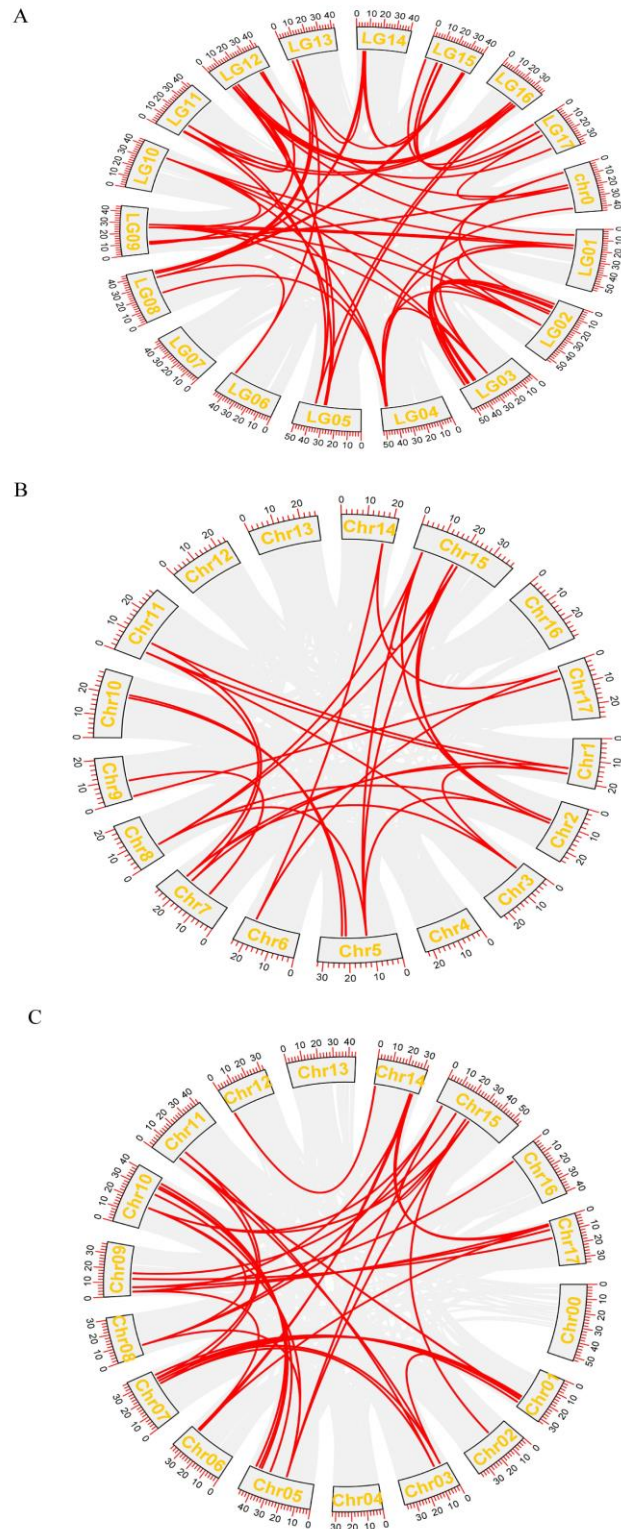


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23 **Figure S7. Chromosome distribution of LBDs in the Maloideae.** (A) Chromosome distribution of

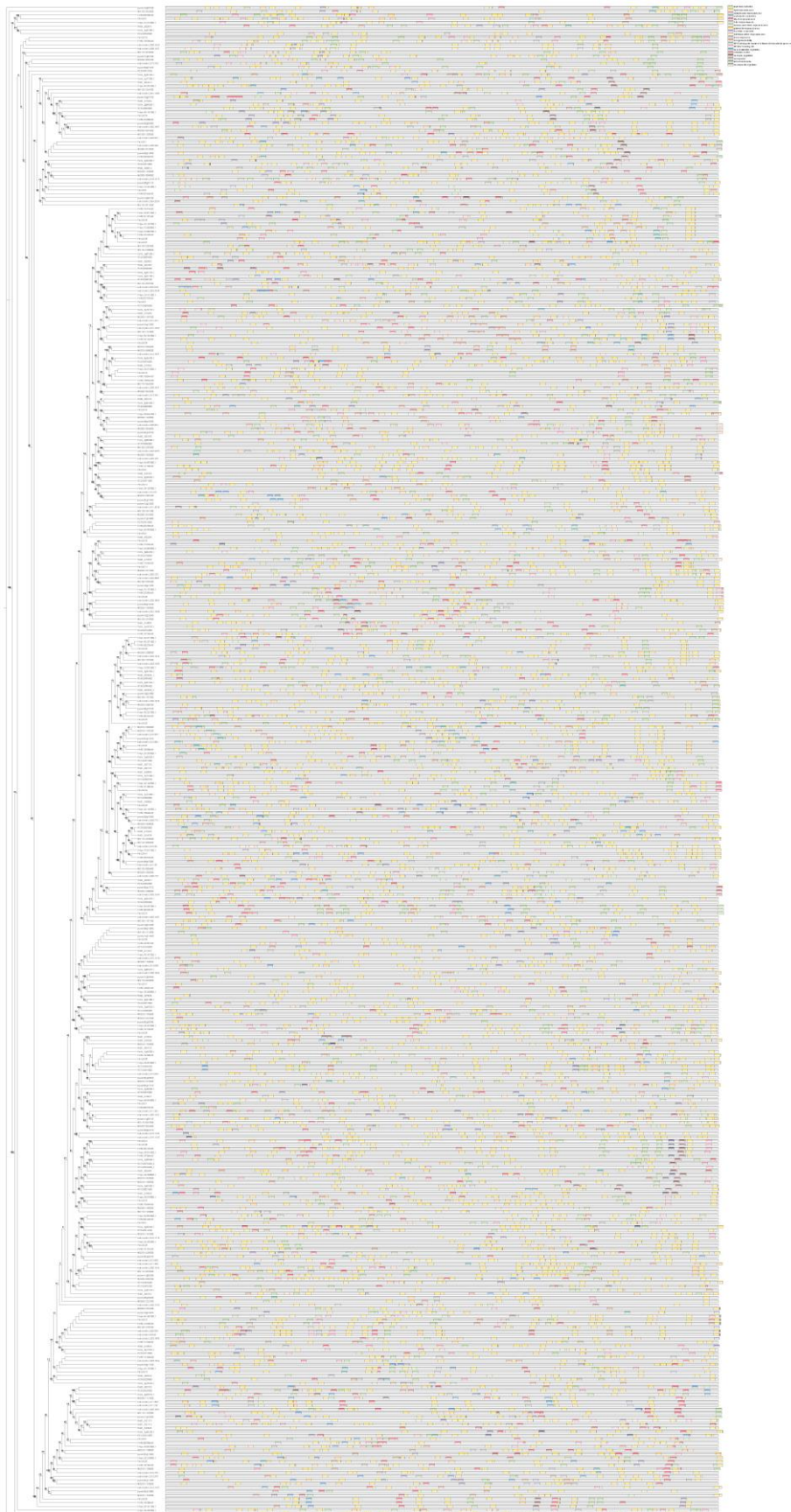
24 LBDs in *C. pinnatifida*. (B) Chromosome distribution of LBDs in *P. communis*. (C) Chromosome

25 distribution of LBDs in *M. domestica*.



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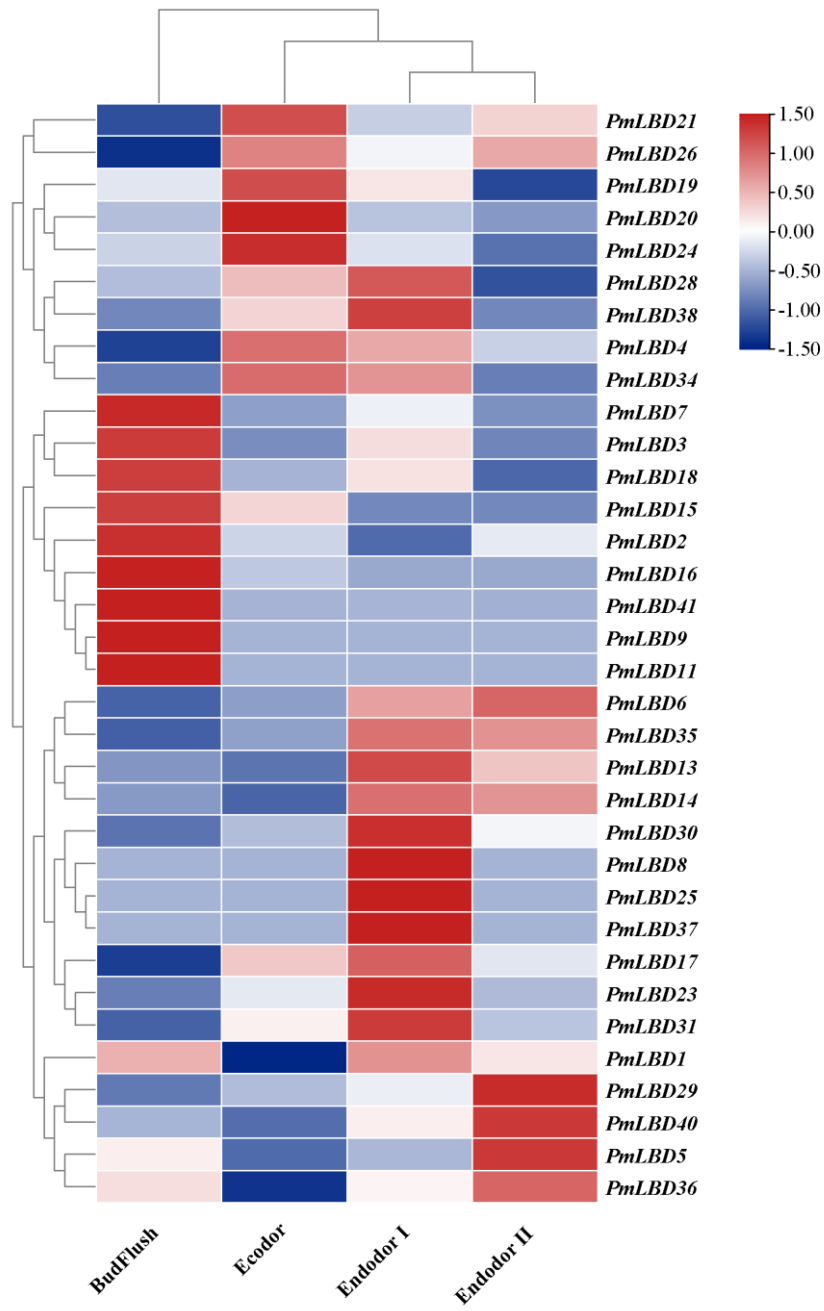
27 **Figure S8. Collinearity of segmental duplication gene pairs of LBDs in the Maloideae.** (A)
 28 Collinearity of segmental duplication gene pairs of LBDs in *C. pinnatifida*. (B) Collinearity of
 29 segmental duplication gene pairs of LBDs in *P. communis*. (C) Collinearity of segmental duplication
 30 gene pairs of LBDs in *M. domestica*. The red lines represent the segment duplication (SD) gene pairs of
 31 the LBDs.



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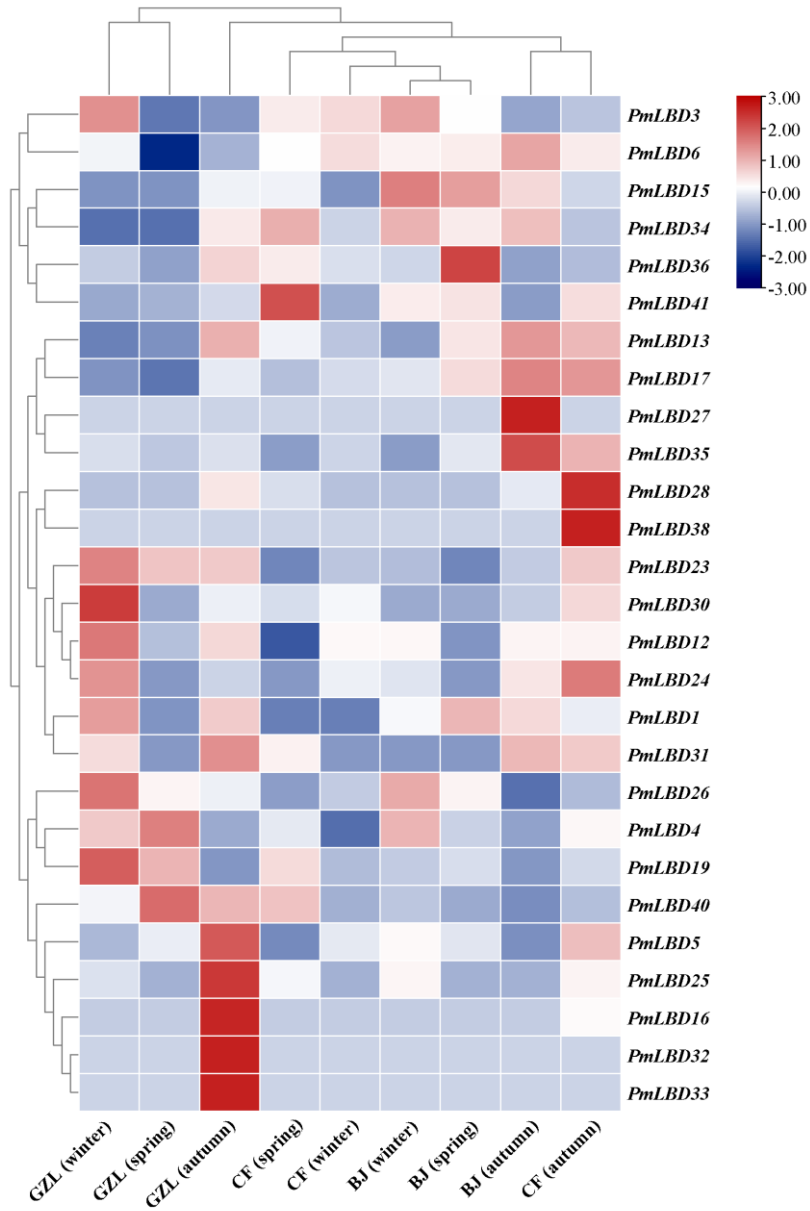
33

Figure S9. The distribution of the main 20 cis-elements in *LBD* gene promoters.



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35 **Figure S10. Expression pattern of *PmLBDs* in different developmental stages of flower buds.**



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37 **Figure S11. Expression pattern of PmLBDs in different locations and seasons. BJ, Beijing; CF,**
 38 **Chifeng; GZL, Gongzhuling.**

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