

Supplementary Materials:

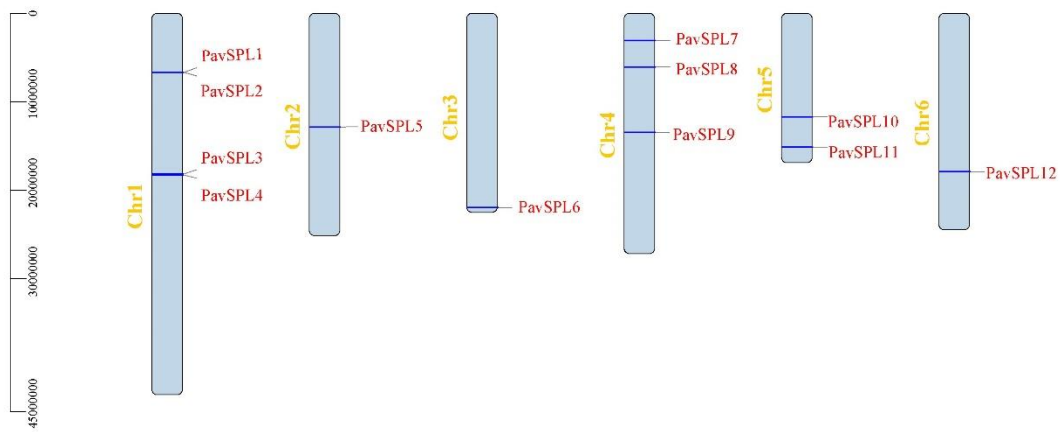


Figure S1: Chromosome distribution of *PavSPL* genes. The scale on the left is in megabases (Mb).

Table S1 Summary genes. information of sweet cherry (*PavSPL*), *Arabidopsis* (*AtSPL*), to-
mato (*SlySBP* and *CNR*), apple (*MdSBP*), rice (*OsSPL*) and strawberry (*FvSPL*).

| Name | Accession Number | |
|----------------|-------------------------|-----|
| <i>AtSPL1</i> | <i>At2g47070</i> | [1] |
| <i>AtSPL2</i> | <i>At5g43270</i> | |
| <i>AtSPL3</i> | <i>At2g33810</i> | |
| <i>AtSPL4</i> | <i>At1g53160</i> | |
| <i>AtSPL5</i> | <i>At3g15270</i> | |
| <i>AtSPL6</i> | <i>At1g69170</i> | |
| <i>AtSPL7</i> | <i>At5g18830</i> | |
| <i>AtSPL8</i> | <i>At1g02065</i> | |
| <i>AtSPL9</i> | <i>At2g42200</i> | |
| <i>AtSPL10</i> | <i>At1g27370</i> | |
| <i>AtSPL11</i> | <i>At1g27360</i> | |
| <i>AtSPL12</i> | <i>At3g60030</i> | |
| <i>AtSPL13</i> | <i>At5g50570</i> | |
| <i>AtSPL14</i> | <i>At1g20980</i> | |
| <i>AtSPL15</i> | <i>At3g57920</i> | |
| <i>AtSPL16</i> | <i>At1g76580</i> | |
| <i>OsSPL1</i> | <i>Os01g18850</i> | [1] |
| <i>OsSPL2</i> | <i>Os01g69830</i> | |
| <i>OsSPL3</i> | <i>Os02g04680</i> | |
| <i>OsSPL4</i> | <i>Os02g07780</i> | |
| <i>OsSPL5</i> | <i>Os02g08070</i> | |
| <i>OsSPL6</i> | <i>Os03g61760</i> | |
| <i>OsSPL7</i> | <i>Os04g46580</i> | |
| <i>OsSPL8</i> | <i>Os04g56170</i> | |
| <i>OsSPL9</i> | <i>Os05g33810</i> | |
| <i>OsSPL10</i> | <i>Os06g44860</i> | |
| <i>OsSPL11</i> | <i>Os06g45310</i> | |
| <i>OsSPL12</i> | <i>Os06g49010</i> | |
| <i>OsSPL13</i> | <i>Os07g32170</i> | |
| <i>OsSPL14</i> | <i>Os08g39890</i> | |
| <i>OsSPL15</i> | <i>Os08g40260</i> | |
| <i>OsSPL16</i> | <i>Os08g41940</i> | |
| <i>OsSPL17</i> | <i>Os09g31438</i> | |
| <i>OsSPL18</i> | <i>Os09g32944</i> | |
| <i>OsSPL19</i> | <i>Os11g30380</i> | |
| <i>FvSPL1</i> | <i>mrna00196.1</i> | [2] |
| <i>FvSPL2</i> | <i>mrna29726.1</i> | |

| | | |
|------------------|-----------------------|-----|
| <i>FvSPL3</i> | <i>mrna06692.1</i> | |
| <i>FvSPL4</i> | <i>mrna22888.1</i> | |
| <i>FvSPL5</i> | <i>mrna22889.1</i> | |
| <i>FvSPL6</i> | <i>mrna04565.1</i> | |
| <i>FvSPL7</i> | <i>mrna06295.1</i> | |
| <i>FvSPL8</i> | <i>mrna26117.1</i> | |
| <i>FvSPL9</i> | <i>mrna29149.1</i> | |
| <i>FvSPL10</i> | <i>mrna22660.1</i> | |
| <i>FvSPL11</i> | <i>mrna17738.1</i> | |
| <i>FvSPL12</i> | <i>mrna01338.1</i> | |
| <i>FvSPL13</i> | <i>mrna04784.1</i> | |
| <i>FvSPL14</i> | <i>mrna04786.1</i> | |
| <hr/> | | |
| <i>CNR</i> | <i>Solyc02g077920</i> | [3] |
| <i>SlySBP12a</i> | <i>Solyc01g068100</i> | |
| <i>SlySBP12b</i> | <i>Solyc05g053240</i> | |
| <i>SlySBP2</i> | <i>Solyc04g045560</i> | |
| <i>SlySBP6c</i> | <i>Solyc12g038520</i> | |
| <i>SlySBP10</i> | <i>Solyc05g015510</i> | |
| <i>SlySBP13</i> | <i>Solyc05g015840</i> | |
| <i>SlySBP6a</i> | <i>Solyc03g114850</i> | |
| <i>SlySBP8a</i> | <i>Solyc10g018780</i> | |
| <i>SlySBP8b</i> | <i>Solyc01g090730</i> | |
| <i>SlySBP3</i> | <i>Solyc10g009080</i> | |
| <i>SlySBP6b</i> | <i>Solyc05g012040</i> | |
| <i>SlySBP15</i> | <i>Solyc10g078700</i> | |
| <i>SlySBP4</i> | <i>Solyc07g053810</i> | |
| <i>SlySBP7</i> | <i>Solyc01g080670</i> | |
| <hr/> | | |
| <i>MdSBP1A</i> | <i>MDP0000861601</i> | [4] |
| <i>MdSBP1B</i> | <i>MDP0000156994</i> | |
| <i>MdSBP2</i> | <i>MDP0000149339</i> | |
| <i>MdSBP3</i> | <i>MDP0000263766</i> | |
| <i>MdSBP4A</i> | <i>MDP0000146640</i> | |
| <i>MdSBP4B</i> | <i>MDP0000778465</i> | |
| <i>MdSBP5</i> | <i>MDP0000803116</i> | |
| <i>MdSBP6</i> | <i>MDP0000262141</i> | |
| <i>MdSBP7</i> | <i>MDP0000170630</i> | |
| <i>MdSBP8</i> | <i>MDP0000865739</i> | |
| <i>MdSBP9</i> | <i>MDP0000158607</i> | |
| <i>MdSBP10</i> | <i>MDP0000171877</i> | |
| <i>MdSBP11</i> | <i>MDP0000246046</i> | |
| <i>MdSBP12</i> | <i>MDP0000155354</i> | |
| <i>MdSBP13</i> | <i>MDP0000919693</i> | |

| | |
|-----------------|----------------------|
| <i>MdSBP14</i> | <i>MDP0000919694</i> |
| <i>MdSBP15</i> | <i>MDP0000180408</i> |
| <i>MdSBP16</i> | <i>MDP0000180409</i> |
| <i>MdSBP17</i> | <i>MDP0000271587</i> |
| <i>MdSBP18</i> | <i>MDP0000297978</i> |
| <i>MdSBP19</i> | <i>MDP0000210138</i> |
| <i>MdSBP20</i> | <i>MDP0000589558</i> |
| <i>MdSBP21</i> | <i>MDP0000193702</i> |
| <i>MdSBP22</i> | <i>MDP0000119458</i> |
| <i>MdSBP23</i> | <i>MDP0000249364</i> |
| <i>MdSBP24</i> | <i>MDP0000176265</i> |
| <i>MdSBP25</i> | <i>MDP0000195461</i> |
| <i>MdSBP26</i> | <i>MDP0000142582</i> |
| <i>MdSBP27A</i> | <i>MDP0000255162</i> |
| <i>MdSBP27B</i> | <i>MDP0000538106</i> |

Table S2 The primers sequences for qRT-PCR.

| Gene Name | Forward primer sequence (5'-3') | Reverse primer sequence (5'-3') |
|------------------|--|--|
| <i>PavSPL1</i> | GGAAATGGGACGGTGATC | CCCTTCTTCGTTTCTCCAAT |
| <i>PavSPL2</i> | ACGGAGAAGGGCTGTTTT | CAGCCTTACAGTCCTCCACC |
| <i>PavSPL3</i> | TTCAATCTGGCCAGCTCA | GAAACATGCCCTGGAAATG |
| <i>PavSPL4</i> | CTGGGGTATTGAAGGGGA | CCCAACTGAAGAACTGACGG |
| <i>PavSPL5</i> | GCCACTGACAACAACCTCATTCT | CGCCGTAGAACTAGAGTGC |
| <i>PavSPL6</i> | GGAGCAGCAAAAACAGGAA | TGTGTACAGCAGGAGGAGAATC |
| <i>PavSPL7</i> | GATCTGGTGCAGGAGGGT | GGAACCTGCTACATTGCTGGC |
| <i>PavSPL8</i> | CTGCCCCAATTTTCATTCA | CTCACGTTGTCCCAGTCC |
| <i>PavSPL9</i> | GTCTCCACCATGTTGCCA | CCTCTTTGCTTCGTCGAAC |
| <i>PavSPL10</i> | GGCACAGTTGATGGGTCTAG | CCACTGTAAGCTGCTCTTGAC |
| <i>PavSPL11</i> | GCTTTGATGGGTGTTGGGAG | CACCATAAACCCCTGCCACT |
| <i>PavSPL12</i> | CTTTGAGGATGCGGTTCTC | GAGCCAAATTCACACCCC |
| <i>PavACTIN</i> | CCAGGGCTGTGTTTCCTTCTA | ATGATCTGCGTCATCTTTTCT |

Table S3 The primers sequences for plasmid construction.

| Gene Name | Forward primer sequence (5'-3') | Reverse primer sequence (5'-3') |
|--------------|---|---|
| PavSPL4-1302 | GACTCTTGACCATT- AGATCTGATGAATTCTGTGT TGCTGATG | GTGAAAAGTTCTTCTCCTTT ACTAGTATTGAATTGGTT- GGTCTGATAA |
| PavSPL7-1302 | GACTCTTGACCATT- AGATCTGATGGAATCAAACA GAGCTCAT | GTGAAAAGTTCTTCTCCTTT ACTAGTTTCTCCATGA- TAATCAGAGGAG |

1. Yang, Z.; Wang, X.; Gu, S.; Hu, Z.; Xu, H.; Xu, C. Comparative study of SBP-box gene family in Arabidopsis and rice. *Gene* **2008**, *407*, 1-11, doi:10.1016/j.gene.2007.02.034.
2. Xiong, J.; Zheng, D.; Zhu, H.; Chen, J.; Na, R.; Cheng, Z. Genome-wide identification and expression analysis of the SPL gene family in woodland strawberry *Fragaria vesca*. *Genome* **2018**, *61*, 675-683, doi:10.1139/gen-2018-0014.
3. Salinas, M.; Xing, S.; Hohmann, S.; Berndtgen, R.; Huijser, P. Genomic organization, phylogenetic comparison and differential expression of the SBP-box family of transcription factors in tomato. *Planta* **2012**, *235*, 1171-1184, doi:10.1007/s00425-011-1565-y.
4. Li, J.; Hou, H.; Li, X.; Xiang, J.; Yin, X.; Gao, H.; Zheng, Y.; Bassett, C.L.; Wang, X. Genome-wide identification and analysis of the SBP-box family genes in apple (*Malus x domestica* Borkh.). *Plant Physiol Biochem* **2013**, *70*, 100-114, doi:10.1016/j.plaphy.2013.05.021.