

Table S5. Reference genomes of *Prunus* species, and datasets used in RNA-seq meta-analysis.

| Species | [Source] Reference genomes | Run | BioSample | Organ/tissue | Rep |
|-----------------------|---|-------------|--------------|-----------------|-----|
| <i>P. armeniaca</i> | [GDR] Chuanzhihong, v1.0 (2019-11-20) [GDR] Longwangmao, v1.0 (2021-03-11) | ERR5096974 | SAMEA7817150 | Green stems | 1 |
| | | ERR5096975 | SAMEA7817156 | Vegetative buds | 1 |
| | | SRR10034644 | SAMN12651124 | Fruits | 1 |
| | | SRR5591376 | SAMN07160993 | Leaves | 1 |
| | | SRR5591377 | SAMN07160993 | Leaves | 2 |
| <i>P. avium</i> | [GDR] Tieton, v2.0 (2020-09-29) | SRR11291063 | SAMN14343298 | Flower buds | 1 |
| | | SRR11291064 | SAMN14343298 | Flower buds | 2 |
| | | SRR11291065 | SAMN14343298 | Flower buds | 3 |
| | | SRR13686248 | SAMN17844929 | Leaf | 1 |
| | | SRR13686249 | SAMN17844928 | Fruits | 1 |
| | | SRR13686255 | SAMN17844922 | Dormancy bud | 1 |
| | | SRR13686257 | SAMN17844933 | Stems | 1 |
| <i>P. davidiana</i> | [GDR] Zhouxing Shan Tao, v1.0 (2020-07-09) | SRR15403591 | SAMN20691626 | Phloem | 1 |
| | | SRR15403592 | SAMN20691625 | Leaf | 1 |
| | | SRR15403594 | SAMN20691623 | Fruits | 1 |
| <i>P. dulcis</i> | [GDR] Texas, v2.0 (2018-10-11) [GDR] Laurantine, v1.0 (2019-06-21) | ERR7250779 | SAMEA9962258 | Shoot tip | 1 |
| | | ERR7250780 | SAMEA9962259 | Shoot tip | 2 |
| | | ERR7250781 | SAMEA9962260 | Shoot tip | 3 |
| | | SRR10189213 | SAMN12855929 | Fruitlets | 3 |
| | | SRR10189214 | SAMN12855928 | Fruitlets | 2 |
| | | SRR10189215 | SAMN12855927 | Fruitlets | 1 |
| | | SRR11251356 | SAMN14316608 | Flower buds | 3 |
| | | SRR11251357 | SAMN14316607 | Flower buds | 2 |
| | | SRR11251358 | SAMN14316606 | Flower buds | 1 |
| | | SRR16267428 | SAMN22169166 | Phloem | 1 |
| | | SRR16267440 | SAMN22169165 | Leaf | 1 |
| <i>P. ferganensis</i> | [GDR] Accession 125, v1.0 (2020-08-01) | SRR15403599 | SAMN20691636 | Phloem | 1 |
| | | SRR15403600 | SAMN20691635 | Leaf | 1 |
| | | SRR15403602 | SAMN20691633 | Fruits | 1 |
| <i>P. kansuensis</i> | [GDR] Honggengansutao 1#, v1.0 (2020-08-03) | SRR15403604 | SAMN20691631 | Phloem | 1 |
| | | SRR15403605 | SAMN20691630 | Leaf | 1 |
| | | SRR15403607 | SAMN20691628 | Fruits | 1 |
| <i>P. mira</i> | [GDR] 2010-138, v1.0 (2020-07-14) [GDR] 2010-138, v2.0 (2021-09-23) | SRR13515756 | SAMN17517089 | Leaf | 1 |
| | | SRR13515757 | SAMN17517088 | Leaf | 2 |
| | | SRR13515759 | SAMN17517087 | Phloem | 1 |
| | | SRR13515760 | SAMN17517086 | Phloem | 2 |
| | | SRR13515763 | SAMN17517083 | Fruits | 1 |
| | | SRR13515764 | SAMN17517082 | Fruits | 2 |
| <i>P. mume</i> | [NCBI] BJFU1210120008, v1.0 (2014-02-28) | SRR13961800 | SAMN18309663 | Flower buds | 1 |
| | | SRR13961801 | SAMN18309664 | Flower buds | 2 |
| | | SRR13961802 | SAMN18309665 | Flower buds | 3 |
| | | SRR542478 | SAMN01120304 | Buds | 1 |
| | | SRR542479 | SAMN01120305 | Leaf | 1 |
| | | SRR542481 | SAMN01120307 | Stems | 1 |
| | | SRR542482 | SAMN01120308 | Fruits | 1 |
| <i>P. persica</i> | [GDR] Lovell, v2.0.a1 (2015-01-15) | SRR10432653 | SAMN13266932 | Vegetative buds | 1 |
| | | SRR10432654 | SAMN13266931 | Vegetative buds | 2 |
| | | SRR10432661 | SAMN13266930 | Vegetative buds | 3 |
| | | SRR13327397 | SAMN17141584 | Shoot | 1 |
| | | SRR13327417 | SAMN17141583 | Shoot | 2 |
| | | SRR13327418 | SAMN17141582 | Shoot | 3 |
| | | SRR13515747 | SAMN17517077 | Leaf | 2 |
| | | SRR13515748 | SAMN17517076 | Leaf | 1 |
| | | SRR13515753 | SAMN17517071 | Fruits | 2 |
| | | SRR13515758 | SAMN17517070 | Fruits | 1 |
| <i>P. salicina</i> | [GDR] Sanyueli, v2.0 (2020-10-10) | SRR10235677 | SAMN12920318 | Branch | 1 |
| | | SRR10235679 | SAMN12920316 | Leaf | 1 |
| | | SRR12234088 | SAMN15500014 | Flower buds | 1 |
| | | SRR12234102 | SAMN15500016 | Flower buds | 2 |
| | | SRR12234103 | SAMN15500015 | Flower buds | 3 |
| | | SRR14455846 | SAMN18917931 | Fruits | 1 |
| | | SRR14455847 | SAMN18917931 | Fruits | 2 |
| | | SRR14455848 | SAMN18917931 | Fruits | 3 |