**Table S3.** Candidate genes for anthocyanin biosynthesis localized in the genomes of *F. vesca* and *P. persica*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Anthocyanin** | ***Fragaria vesca*** | ***Prunus persica*** |  | **SNP** | **Function** |
| Candidate gene | LG | Position | LG | Position | p-value |  |  |
| GST | Fvb1 | 13457300 | Pp03 | 958147 | 1.23E-07 | RhK5\_7371\_202Q | gene31672-v1.0-hybrid\_Glutathione\_S-transferase\_(similar\_to) |
| E3\_C8 | Fvb1 | 13457759 | -- | -- | 4.08E-05 | RhK5\_11612\_458Q | gene08542-v1.0-hybrid\_E3\_ubiquitin-protein\_ligase\_CIP8\_(similar\_to) |
| SUMO1 | Fvb1 | 13495336 | -- | -- | 8.45E-07 | Rh12GR\_17814\_425Q | gene31679-v1.0-hybrid\_Ubiquitin-like\_protein\_SMT3\_(probable) |
| ARF\_8 | Fvb1 | 13602666 | Pp03 | 731901 | 9.73E-11 | Rh12GR\_283\_1910Q | gene31631-v1.0-hybrid\_Auxin\_response\_factor\_8\_(putative) |
|  | Fvb3 | 2887619 | Pp04 | 4220574 | 9.73E-11 |  |  |
| ABC\_E | Fvb2 | 14129229 | Pp03 | 1321116 | 1.73E-05 | Rh12GR\_25909\_1582P | gene08651-v1.0-hybrid\_ABC\_transporter\_E\_family\_member\_2 \_ (ABC\_transporter\_ABCE.2)\_(putative) |
| IAA\_S | Fvb2 | 20190055 | Pp08 | 21927020 | 2.20E-06 | Rh12GR\_3292\_1365P | gene10566-v1.0-hybrid\_Putative\_indole-3-acetic\_acid-amido\_ synthetase\_GH3.9\_(AtGH3-9) |
| Cirhin/WD40 | Fvb2 | 24397420 | Pp01 | 36401229 | 8.10E-09 | RhK5\_1439\_806P | gene02598-v1.0-hybrid\_Cirhin\_(probable) U3 small nucleolar RNA-associated protein 4/UTP4 |
| WRKY17 | Fvb2 | 26458029 | Pp01 | 38446355 | 8.74E-06 | RhK5\_9709\_542P | gene08720-v1.0-hybrid\_Probable\_WRKY\_transcription\_factor\_17\_ (putative) |
| ABC\_G | Fvb2 | 26806823 | Pp01 | 32869706 | 3.50E-05 | RhK5\_3307\_1142Q | gene08654-v1.0-hybrid\_ABC\_transporter\_G\_family\_member\_14\_ (ABC\_transporter\_ABCG.14)\_(similar\_to) |
| ABC\_E | Fvb3 | 1748904 | Pp01 | 33582218 | 1.73E-05 | Rh12GR\_25909\_1582P | gene08651-v1.0-hybrid\_ABC\_transporter\_E\_family\_member\_2\_ (ABC\_transporter\_ABCE.2)\_(putative) |
| E3\_RNF8 | Fvb4 | 24461428 | Pp01 | 25316517 | 2.39E-05 | RhK5\_20085\_328Q | gene06939-v1.0-hybrid\_E3\_ubiquitin-protein\_ligase\_RNF8\_A\_ (probable) |
| 4\_CL | Fvb4 | 24864120 | Pp01 | 24722871 | 6.58E-06 | RhK5\_17800\_191Q | gene07129-v1.0-hybrid\_4-coumarate--CoA\_ligaselike\_9\_(At4CL4)\_(probable) |
| E3\_UBR7 | Fvb5 | 2655879 | Pp05 | 12015565 | 4.44E-05 | RhK5\_6420\_651Q | gene32102-v1.0-hybrid\_Putative\_E3\_ubiquitin-protein\_ligase\_UBR7\_ (probable) |
| F3'H | Fvb5 | 8096310 | Pp05 | 16349509 | 3.44E-05 | RhK5\_2457\_1244P | gene25801-v1.0-hybrid\_Flavonoid\_3'-monooxygenase\_(similar\_to) |
| GT83a | Fvb5 | 8166928 | Pp05 | 12015565 | 4.44E-05 | RhK5\_19460\_153 | gene04292-v1.0-hybrid\_Cytokinin-O-glucosyltransferase\_2\_(AtZOG2)\_ (probable) - udp-glycosyltransferase 83a1-like |
| Myb90 | Fvb6 | 630966 | Pp06 | 30200282 | 3.55E-06 | RhMCRND\_10092\_296P | gene25801-v1.0-hybrid\_Flavonoid\_3'-monooxygenase\_(similar\_to) |
| E3\_C8 | Fvb6 | 30195732 | -- | -- | 3.42E-05 | Rh12GR\_22762\_321P | gene04302-v1.0-hybrid\_E3\_ubiquitin-protein\_ligase\_CIP8\_(probable) |