**Table S1**. **Full-sib families screened with the 20K SNP array**. Parents and number of seedlings genotyped. Pedigrees of the X-numbered accessions are reported by [11].

|  |  |  |  |
| --- | --- | --- | --- |
| **Family** | **Mother** | **Father** | **No.of seedlings** |
| 12\_B | ‘Generos’ | X6417 | 50 |
| 12\_E | ‘Generos’ | X6683 | 58 |
| 12\_F | X3318 | X6564 | 48 |
| 12\_I | X3263 | X3259 | 47 |
| 12\_J | X3318 | ‘Galarina’ | 24 |
| 12\_K | X6679 | X6808 | 47 |
| 12\_N | X3305 | X3259 | 48 |
| 12\_P | ‘Rubinette’ | X3305 | 48 |
| DiPr | ‘Discovery’ | ‘Prima’ | 77 |
| DLO\_12 | 1980-15-25 | 1973-1-41 | 225 |
| FuGa | ‘Fuji’ | ‘Gala’ | 141 |
| FuPi | ‘Fuji’ | ‘Pinova’ | 92 |
| GaPi | ‘Gala’ | ‘Pinova’ | 43 |
| I\_BB | X6417 | X6564 | 43 |
| I\_CC | X6679 | Dorianne | 50 |
| I\_J | X3318 | X3263 | 48 |
| I\_M | X6683 | X6681 | 46 |
| I\_W | X6398 | X6683 | 45 |
| JoPr | ‘Jonathan’ | ‘Prima’ | 175 |
| PiRea | ‘Pinova’ | ‘Reanda’ | 46 |
| TeBr | ‘Telamon’ | ‘Braeburn | 202 |
| Total |  |  | 1603 |