Table S3. Comparison of phenotypes and genotypes among seven original cultivars.

1. Agronomic traits

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cultivars | Days of flowering | Maturity days | Growth type | Flower color | Seed coat color | Seed hilum color | 100 seed weight (g) | Stem anthocyanin | Plant height (cm) | Node number | Ramification number |
| 94Seori | 57 | 144 | D | P | B | B | 28.7 | O | 59.4 | 13.8 | 4.4 |
| KAS360-22 | 43 | 112 | D | W | Y | Br | 21.5 | X | 34.2 | 8.6 | 3.6 |
| BangSa | 50 | 150 | D | P | Y | Br | 20.7 | O | 44.6 | 12.2 | 4.6 |
| PalDal | 43 | 126 | D | P | Y | B | 12.7 | X | 23.0 | 8.4 | 3.6 |
| DanBaek | 50 | 139 | D | P | Y | Br | 14.3 | X | 40.4 | 11.8 | 4.0 |
| DaePung | 48 | 140 | D | W | Y | Y | 19.9 | X | 30.4 | 11.0 | 4.4 |
| HwangKeum | 50 | 124 | D | P | Y | Y | 26.2 | O | 36.0 | 12.6 | 4.6 |

1. Matrix of genetic distance

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 94Seori | BangSa | DaePung | DanBaek | HwangKeum | KAS360-22 | PalDal |
| 94Seori | ─ |  |  |  |  |  |  |
| BangSa | 0.179 | ─ |  |  |  |  |  |
| DaePung | 0.213 | 0.201 | ─ |  |  |  |  |
| DanBaek | 0.206 | 0.168 | 0.166 | ─ |  |  |  |
| HwangKeum | 0.197 | 0.181 | 0.128 | 0.179 | ─ |  |  |
| KAS360-22 | 0.147 | 0.174 | 0.230 | 0.208 | 0.188 | ─ |  |
| PalDal | 0.172 | 0.152 | 0.161 | 0.161 | 0.159 | 0.181 | ─ |