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| **Table S1.** List of accessions used in this study  |
| No. | Genebank† Code | Origin | No. | Genebank Code | Origin |
| 1 | IUGB-00157 | Iran-Sadraldin Village | 46 | KC-50084 | Iran-Azarbayejan sharghi |
| 2 | IUGB-00151 | Iran-Ardabil-arein Road | 47 | IUGB-00238 | Iran- Karaj-Chaloos |
| 3 | IUGB-00299 | Afghanistan | 48 | IUGB-00263 | Iran- Mazandaran-Amol |
| 4 | KC-50133 | Iran-Khorasan | 49 | IUGB-00261 | Iran- Karaj-Chaloos |
| 5 | IUGB00401 | Iran-shahrestan Noor | 50 | IUGB-00298 | Iran/unknown |
| 6 | IUGB-00141 | Iran-unknown | 51 | IUGB-00193 | Iran- Ahar-Kelibar |
| 7 | IUGB-00375 | Iran-Dashte Moghan | 52 | IUGB-00224 | Iran- Koochsfehan Road |
| 8 | TN-01-0945 | Iran-Mazandaran | 53 | IUGB-00279 | Iran-10km Ahar-Tabriz Road |
| 9 | IUGB-00369 | Iran-Gilan-Kalachay | 54 | TN-01-0563 | Iran-Gillan |
| 10 | TN-01-2120 | Iran-Mazandaran | 55 | IUGB-00402 | Iran-shahrestan Noor |
| 11 | IUGB-00313 | Iran/unknown | 56 | IUGB-00311 | Sweden |
| 12 | IUGB-00314 | Azarbaijan | 57 | IUGB-00039 | Iran-unknown |
| 13 | IUGB-02055 | Iran/unknown | 58 | IUGB-00295 | Turkey |
| 14 | IUGB-00289 | Afghanistan | 59 | IUGB-00300 | Iran/unknown |
| 15 | KC-50136 | Iran-Khorasan | 60 | IUGB-00302 | Afghanistan |
| 16 | IUGB-00164 | Iran- Astara-Ardabil Road | 61 | IUGB-00245 | Iran- Karaj-Chaloos |
| 17 | IUGB-00386 | Iran-30km AharKelaibar | 62 | IUGB-00315 | Iran/unknown |
| 18 | IUGB-00312 | Iran/unknown | 63 | IUGB-00144 | Tajikistan |
| 19 | KC-50006 | Iran-Azarbayejan gharbi | 64 | IUGB-00051 | Azarbaijan |
| 20 | IUGB-00374 | Astaneh Ashrafyeh | 65 | IUGB-00290 | Turkmenistan |
| 21 | TN-01-1005 | Iran-Mazandaran | 66 | IUGB-00429 | Iran/unknown |
| 22 | TN-01-1970 | Iran-Khorasan | 67 | IUGB-00365 | Iran-Mazandaran-Amol |
| 23 | IUGB-00293 | Japn | 68 | IUGB-00400 | Iran-20km jadeh Chalooos |
| 24 | IUGB-00198 | Iran- Zanjan Road | 69 | IUGB-00405 | Iran- Karaj-Chaloos |
| 25 | IUGB-02076 | Iran/unknown | 70 | TN-01-0562 | Iran-Semnan |
| 26 | TN-01-2115 | Iran-Mazandaran | 71 | IUGB-00306 | Tajikistan  |
| 27 | IUGB-00205 | Iran-Ardabil Hayran Village | 72 | IUGB-00404 | Iran- Rasht Talesh |
| 28 | IUGB-00382 | Iran- Kermanshah Harsin | 73 | IUGB-00303 | Turkey |
| 29 | IUGB-00305 | Iran/unknown | 74 | TN-01-1770 | Iran-Khorasan |
| 30 | TN-01-1559 | Iran-Semnan | 75 | IUGB-00108 | Iran-unknown |
| 31 | TN-01-1745 | Iran-Semnan | 76 | IUGB-00269 | Iran -Rasht |
| 32 | IUGB-00308 | Azarbaijan | 77 | IUGB-00291 | Azarbaijan |
| 33 | TN-01-1772 | Iran-Golestan | 78 | IUGB-00362 | Armenia |
| 34 | IUGB-00309 | Iran/unknown | 79 | IUGB-00381 | Iran- Astara Road |
| 35 | IUGB-00275 | Iran-Ardabil | 80 | IUGB-00292 | Turkey |
| 36 | IUGB-00370 | Iran/unknown | 81 | IUGB-00223 | Iran- Salmanshahr-Ramsar |
| 37 | TN-01-0569 | Iran-Gilan | 82 | TN-01-1695 | Iran-Semnan |
| 38 | IUGB-00325 | Iran- Karaj-Chaloos | 83 | IUGB-00296 | Armenia |
| 39 | IUGB-00143 | Iran-unknown | 84 | IUGB-00080 | Iran-Salman shahr |
| 40 | IUGB-01746 | Iran-Azarbayejan gharbi | 85 | IUGB-00310 | Iran/unknown |
| 41 | IUGB-00107 | Gilan- Kooch Esfahan Road | 86 | IUGB-00196 | Iran-Ramsar |
| 42 | IUGB-00367 | Iran-30km Ahar-Kelaibar | 87 | IUGB-00276 | Iran- Bandar Behshahr |
| 43 | IUGB-00371 | Iran/unknown | 88 | IUGB-00383 | Iran-Abbasabad Ramsar |
| 44 | IUGB-00297 | Iran/unknown | 89 | IUGB-00307 | Iran/unknown |
| 45 | IUGB-00366 | Iran- Lahijan Village | 90 | TN-01-0312 | Iran-Azarbayejan gharbi |

† IUGB:Ilam University Genebank