**Table S1** Details of 317 accessions used for microsatellite analysis

| **Name of accession** | **Code no** | **Type** | **Cluster No.** | **Core collection** | **Origin/Place of collection** | **Parentage/ Species** |
| --- | --- | --- | --- | --- | --- | --- |
| **254 accessions with unique allele profile** | | | | | | |
| 1103P | 1 | R | 2 | Yes | Italy | Interspecific |
| 110R | 2 | R | 2 | Yes | France | Interspecific |
| 140Ruggari | 3 | R | 2 | Yes | Italy | Interspecific |
| 1616C | 4 | R | 3 | No | Australia | Interspecific |
| 41B | 5 | R | 2 | Yes | France | Interspecific |
| 99R | 6 | R | 2 | No | Australia | Interspecific |
| A/11/1 | 7 | T | 4 | Yes | India | vinifera |
| A/18/3 | 8 | T | 1 | No | India | Carolina Black Rose x Thompson Seedless |
| A/49/4 | 9 | W | 1 | Yes | India | Flame Seedless x Lake Emerald |
| A2/26/1 | 10 | T | 1 | No | India | Black Champa x Thompson Seedless |
| A2/26/2 | 11 | W | 1 | Yes | India | Anab e Shahi x Bangalore Blue |
| A2/3/1 | 12 | W | 3 | Yes | India | labrusca |
| A2/46-2 | 13 | W | 4 | No | India | vinifera |
| AH/1/1+ | 14 | T | 1 | No | India | OP seedling of Spin Sahebi |
| AH/1/23+ | 15 | T | 1 | No | India | Pusa Navrang x Red Globe |
| AH/1/8 | 16 | T | 1 | No | India | OP seedling of Spin Sahebi |
| AH/2/20 | 17 | T | 1 | No | India | Spin Sahebi x Kishmish Chernyi |
| AH/2/22 | 18 | T | 1 | No | India | Spin Sahebi x Thompson Seedless |
| AH/2/34 | 19 | T | 1 | No | India | Spin Sahebi x Thompson Seedless |
| AH/2/4 | 20 | T | 1 | No | India | Spin Sahebi x Superior Seedless |
| AH/2/8 | 21 | T | 1 | No | India | Spin Sahebi x Black Monukka |
| AH/3/35 | 22 | W | 4 | No | India | Pusa Navrang x Flame Seedless |
| AH/3/6+ | 23 | T | 1 | Yes | India | Spin Sahebi x Pandhari Sahebi |
| AH/4/12+ | 24 | T | 1 | No | India | Rangspey x Thompson Seedless |
| AH/4/13+ | 25 | W | 1 | No | India | Rangspey x Thompson Seedless |
| AH/4/15+ | 26 | T | 1 | No | India | Rangspey x Thompson Seedless |
| AH/4/19 | 27 | W | 1 | No | India | Flame Seedless x Seyve Villard |
| AH/4/19+ | 28 | T | 1 | No | India | Rangspey x Marroo Seedless |
| AH/4/23+ | 29 | T | 1 | No | India | Rangspey x Perlette |
| AH/4/33 | 30 | W | 1 | No | India | Chardonney x Arkavati |
| AH/4/36+ | 31 | T | 1 | No | India | Thompson Seedless x Lake Emerald |
| AH/4/4+ | 32 | T | 1 | No | India | Rangspey x Flame Seedless |
| AH/4/5+ | 33 | T | 1 | No | India | Rangspey x Flame Seedless |
| AH3/28 | 34 | T | 1 | No | India | Chardonnay x Pusa Navrang |
| Alamwick | 35 | W | 4 | Yes | USA | labrusca x vinifera |
| Alden | 36 | T | 4 | No | USA | vinifera |
| Amber Queen | 37 | W | 4 | Yes | USA | labrusca x vinifera |
| Amber Sweet | 38 | W | 3 | No | USA | labrusca x vinifera |
| Anab e Shahi | 39 | T | 1 | No | India | vinifera |
| Angoor Kalan | 40 | T | 1 | Yes | Russia | vinifera |
| Arka Chitra | 41 | T | 1 | No | India | Arka Kanchan x Anab e Shahi |
| Arka Hans | 42 | W | 1 | Yes | India | Bangalore Blue x Anab e Shahi |
| Arka Kanchan | 43 | W | 4 | Yes | India | Anab e Shahi x Queen of Vineyard |
| Arka Majestic | 44 | T | 1 | No | India | Arka Kanchan x Black Champa |
| Arka Neelmani | 45 | T | 1 | Yes | India | Black Champa x Thompson Seedless |
| Arka Shyam | 46 | W | 1 | No | India | Bangalore Blue x Black Champa |
| Arka Soma | 47 | W | 4 | Yes | India | Anab e Shahi x Queen of Vineyard |
| Arka Sweta | 48 | T | 1 | No | India | Anab e Shahi x Thompson Seedless |
| Arka Trishna | 49 | W | 1 | No | India | Bangalore Blue x Convent large Black |
| Arka Vati | 50 | T | 1 | No | India | Black Champa x Thompson Seedless |
| Arki | 51 | W | 3 | No | Japan | labrusca |
| Armas | 52 | W | 4 | Yes | Moldova | vinifera |
| Athens | 53 | W | 4 | No | USA | Hubbard x portland |
| B/15/6 | 54 | T | 4 | No | India | Thompson Seedless x Seyve Villard |
| B/43/3 | 55 | W | 1 | No | USA | vinifera x champinni |
| B2/15/3 | 56 | W | 1 | No | USA | labrusca |
| B2/34/2 | 57 | T | 1 | No | India | vinifera |
| B2/55/3 | 58 | W | 4 | Yes | India | Interspecific |
| B2/56 | 59 | R | 2 | Yes | USA | berlendieri x rupestris |
| Babesca Neagra | 60 | W | 4 | No | Moldova | vinifera |
| Bangalore Blue | 61 | W | 3 | No | India | labrusca |
| Bangalore Purple | 62 | W | 4 | No | India | vinifera x labrusca |
| Banqui Abyad | 63 | T | 1 | No | Australia | vinifera |
| Benizuiho | 64 | T | 1 | Yes | Japan | Interspecific |
| Bharat Prince | 65 | T | 4 | No | India | vinifera |
| Bhokri | 66 | T | 4 | No | India | vinifera |
| Black Cornichon Late | 67 | W | 1 | No | Spain | vinifera |
| Black Damus Rose | 68 | T | 1 | No | USA | vinifera |
| Black Hamburg | 69 | T | 1 | Yes | USA | vinifera |
| Black Monukka | 70 | T | 1 | No | India | vinifera |
| Black Muscat | 71 | T | 3 | No | U.K. | vinifera |
| Black Round | 72 | T | 3 | No | USA | vinifera |
| Black Seedless | 73 | T | 1 | No | India | vinifera |
| Buckland Sweet Water | 74 | J | 3 | Yes | India | labrusca |
| Cabernet Franc R | 75 | W | 4 | Yes | France | vinifera |
| Cabernet Sauvignon R | 76 | W | 4 | Yes | France | vinifera |
| Caladoc R | 77 | W | 4 | Yes | France | vinifera |
| Cardinal1 | 78 | T | 4 | No | USA | vinifera |
| Cardinal2 | 79 | T | 4 | Yes | USA | vinifera |
| Carolina Black Rose | 80 | T | 4 | No | USA | Interspecific |
| Castiza | 81 | T | 4 | No | Spain | vinifera |
| Centennial Seedless | 82 | T | 4 | No | USA | vinifera |
| Champach | 83 | R | 2 | Yes | USA | Interspecific |
| Charark2 | 84 | W | 4 | No | India | Chardonney x Arkavati |
| Charark4 | 85 | W | 4 | No | India | Chardonney x Arkavati |
| Charas | 86 | T | 1 | Yes | Uzbekistan | vinifera |
| Chardonnay | 87 | W | 4 | No | France | vinifera |
| Chenanson | 88 | W | 4 | Yes | France | vinifera |
| Chenin W | 89 | W | 4 | No | France | vinifera |
| Christmas Rose | 90 | T | 4 | No | USA | vinifera |
| Cinsaut R | 91 | W | 4 | Yes | France | vinifera |
| Clairette | 92 | W | 4 | No | France | vinifera |
| Coarna Alba | 93 | T | 1 | No | Moldova | vinifera |
| Coarna Neagra | 94 | W | 4 | Yes | Spain | vinifera |
| Coarna Regia | 95 | W | 4 | Yes | France | vinifera |
| Colombard W | 96 | W | 4 | Yes | France | vinifera |
| Concord | 97 | W | 3 | No | USA | labrusca |
| Convent Large Black | 98 | W | 1 | No | Bulgaria | vinifera |
| Convergent Large Red | 99 | W | 4 | No | Bulgaria | vinifera |
| Crimson Seedless | 100 | T | 4 | No | USA | vinifera |
| Dakh | 101 | W | 3 | Yes | India | labrusca |
| deGrasset | 102 | R | 2 | Yes | India | Interspecific |
| Delight | 103 | T | 1 | No | USA | vinifera |
| Diamond Jubilee | 104 | T | 4 | Yes | France | vinifera |
| Dogridge | 105 | R | 2 | No | USA | champinii |
| Doradillo | 106 | T | 4 | No | Spain | vinifera |
| E/12/2 | 107 | T | 1 | Yes | India | Bangalore Blue x Convent large Black |
| E/12/7 | 108 | T | 1 | No | India | Anab e Shahi x Thompson Seedless |
| E/19/4 | 109 | T | 1 | No | India | Bangalore Blue x Cheema Sahebi |
| E/2/1 | 110 | T | 1 | No | India | Arka Kanchan x Black Champa |
| E/29/3 | 111 | T | 1 | No | India | Black Champa x Thompson Seedless |
| E/29/6 | 112 | W | 1 | No | India | Black Champa x Thompson Seedless |
| E/29/7 | 113 | W | 1 | No | India | Black Champa x Thompson Seedless |
| E/31/4 | 114 | W | 1 | No | India | Black Champa x Thompson Seedless |
| E/31/5 | 115 | W | 1 | No | India | Black Champa x Thompson Seedless |
| E/32/8 | 116 | W | 1 | No | India | Black Champa x Thompson Seedless |
| E/34/29 | 117 | W | 1 | No | India | Cheema Sahebi x Convent Large Black |
| E/4/15 | 118 | W | 1 | No | India | Anab e Shahi x Bangalore Blue |
| E/5/12 | 119 | W | 1 | No | India | Anab e Shahi x Black Champa |
| E/5/4 | 120 | T | 1 | No | India | Angoor Kalan x Anab e Shahi |
| E/6/2 | 121 | T | 1 | No | India | Anab e Shahi x Black Champa |
| E/7/22 | 122 | T | 1 | No | India | Anab e Shahi x Convent large Black |
| E/7/24 | 123 | T | 1 | No | India | Anab e Shahi x Convent large Black |
| E/8/5 | 124 | T | 1 | No | India | Anab e Shahi x Convent large Black |
| Early Perlette | 125 | T | 1 | Yes | India | vinifera |
| EC27820 | 126 | T | 4 | No | Italy | vinifera |
| EC27830 | 127 | T | 4 | Yes | Italy | vinifera |
| EC36506 | 128 | W | 4 | No | Italy | vinifera |
| F/26/8 | 129 | T | 1 | No | India | Arka Kanchan x Black Champa |
| Fakri | 130 | T | 1 | No | India | vinifera |
| Fantasy Seedless | 131 | T | 4 | Yes | USA | vinifera |
| Feteasca Alba | 132 | W | 4 | No | France | vinifera |
| Feteasca Neagra | 133 | W | 1 | No | France | vinifera |
| Flame Seedless | 134 | T | 1 | No | USA | vinifera |
| Freedom | 135 | R | 2 | Yes | USA | Interspecific |
| Fruhroter Veltiner | 136 | W | 3 | Yes | USA | labrusca |
| Frumver Gunder | 137 | W | 4 | No | France | vinifera |
| Garganega | 138 | W | 4 | No | Italy | vinifera |
| Gewurztraminer P | 139 | W | 4 | No | France | vinifera |
| Golden Queen | 140 | T | 4 | No | UK | Interspecific |
| Grasa de Cotnari | 141 | W | 4 | No | Moldova | vinifera |
| Grenache N | 142 | W | 4 | No | France | vinifera |
| Gros Manseng W | 143 | W | 4 | No | France | vinifera |
| Gulabi1 | 144 | T | 4 | No | India | vinifera |
| Gulabi2 | 145 | T | 4 | No | India | vinifera |
| H144 | 146 | W | 2 | Yes | India | Cheema Sahebi x Catawba |
| H533 | 147 | W | 2 | Yes | India | tilifolia x Gulabi |
| Haitha | 148 | T | 1 | Yes | India | vinifera |
| Hussain Black Kabuli | 149 | W | 1 | No | Afghanistan | vinifera |
| HY/23/14/23 | 150 | W | 4 | No | India | vinifera |
| Isabella | 151 | W | 4 | Yes | USA | labrusca |
| Italia | 152 | T | 4 | No | USA | vinifera |
| Jahfari | 153 | W | 3 | No | Syria | vinifera |
| Jaos Beli | 154 | T | 4 | No | Russia | vinifera |
| July Muscat | 155 | T | 1 | Yes | USA | vinifera |
| Kali Sahebi | 156 | T | 1 | No | India | vinifera |
| Katta | 157 | T | 4 | No | Iran | vinifera |
| Katta Kurgaon | 158 | T | 1 | Yes | Uzbekistan | vinifera |
| Keewahdin | 159 | W | 4 | No | USA | Interspecific |
| Khalili Noir | 160 | W | 2 | No | Iran | vinifera |
| Khatta Angur | 161 | W | 2 | Yes | Uzbekistan | vinifera |
| Kishmish Chernyi | 162 | T | 1 | No | Russia | vinifera |
| Kishmish Luchisty | 163 | W | 1 | No | Russia | vinifera |
| Kishmish Moldavski | 164 | T | 1 | No | Moldova | vinifera |
| Lahore Local | 165 | T | 1 | No | India | vinifera |
| Lake Emerald | 166 | T | 2 | Yes | USA | aestivalis |
| Large white | 167 | W | 3 | No | USA | labrusca |
| Loose Perlette | 168 | T | 1 | No | USA | vinifera |
| Madeleine Angevine | 169 | W | 4 | Yes | Russia | vinifera |
| Maroo Seedless | 170 | T | 1 | No | Australia | vinifera |
| Merlot Mix | 171 | W | 4 | Yes | India | vinifera |
| Merlot R | 172 | W | 4 | No | France | vinifera |
| Motia | 173 | T | 4 | No | India | vinifera |
| Mourvadre | 174 | W | 4 | No | Spain | vinifera |
| Muscat Hamburg | 175 | T | 4 | Yes | Korea | vinifera |
| Muscat of Alexandria | 176 | T | 4 | No | Italy | vinifera |
| Muscat White | 177 | T | 4 | Yes | France | vinifera |
| Neagra Vertis | 178 | W | 4 | No | Moldova | vinifera |
| New Perlette | 179 | T | 1 | No | India | vinifera |
| Niellucio R | 180 | W | 4 | Yes | Italy | vinifera |
| Olympia | 181 | W | 4 | No | Japan | Interspecific |
| Omania Black | 182 | T | 4 | Yes | Oman | vinifera |
| Palomino | 183 | W | 4 | Yes | Spain | vinifera |
| Pandhari Sahebi | 184 | T | 4 | No | India | vinifera |
| Pearl of Csaba | 185 | W | 2 | Yes | Hungary | vinifera |
| Periquita | 186 | W | 4 | No | Portugal | vinifera |
| Perlette | 187 | T | 1 | No | USA | Interspecific |
| Peru White | 188 | W | 4 | No | USA | labrusca |
| Petit Verdot R | 189 | W | 4 | Yes | France | vinifera |
| Pinot Noir | 190 | W | 4 | No | France | vinifera |
| Piroz Tramine | 191 | W | 1 | No | France | vinifera |
| PNxChardonnay | 192 | W | 4 | Yes | India | Pusa Navrang x Chardonney |
| PS/II/2/28 | 193 | T | 4 | Yes | India | vinifera |
| PS/III/11/1 | 194 | T | 2 | No | India | vinifera |
| PS/III/12/14 | 195 | T | 4 | No | India | vinifera |
| PS/III/12/3 | 196 | T | 4 | No | India | vinifera |
| PS/III/13/2 | 197 | W | 4 | Yes | India | vinifera |
| PS/III/8/6 | 198 | T | 4 | No | India | vinifera |
| Pusa Navrang | 199 | W | 4 | No | India | Interspecific |
| Pusa Urvashi | 200 | T | 1 | No | India | vinifera |
| Queen of Vineyards | 201 | T | 4 | No | Hungary | vinifera |
| Rangspey Black | 202 | W | 1 | No | India | vinifera |
| Rangspey W | 203 | T | 4 | No | India | vinifera |
| Rangspey White | 204 | T | 1 | No | India | vinifera |
| Red Globe | 205 | T | 4 | No | USA | vinifera |
| Red Muscat | 206 | T | 4 | No | UK | vinifera |
| Red Prince | 207 | W | 1 | No | Cyprus | vinifera |
| Ribier | 208 | T | 4 | No | France | vinifera |
| Riesling W | 209 | W | 4 | No | France | vinifera |
| Rizamet | 210 | T | 1 | No | Korea | vinifera |
| Rosaria Bianca | 211 | T | 1 | No | Italy | vinifera |
| Rose Ciotat | 212 | W | 3 | No | Japan | Interspecific |
| Rose of Penn | 213 | W | 3 | No | Peru | vinifera |
| RS No19 | 214 | R | 2 | Yes | Russia | Interspecific |
| Ruby Red | 215 | W | 4 | No | USA | Interspecific |
| Sahebi Ali | 216 | T | 1 | No | Afghanistan | vinifera |
| Salt Creek | 217 | R | 2 | Yes | USA | champinii |
| Saperavi | 218 | W | 4 | Yes | Georgia | vinifera |
| Sauvignon W | 219 | W | 4 | Yes | France | vinifera |
| Sckeri | 220 | T | 4 | Yes | Turkey | vinifera |
| Seibel 9308 | 221 | W | 4 | No | France | Interspecific |
| Seibel 9813 | 222 | W | 2 | No | France | Interspecific |
| semillon | 223 | W | 4 | No | USA | vinifera |
| Seyve Villard-12309 | 224 | W | 2 | No | France | Interspecific |
| Seyve Villard-12364 | 225 | W | 2 | Yes | France | Interspecific |
| Seyve Villard-12375 | 226 | W | 2 | Yes | France | Interspecific |
| Seyve Villard-18315 | 227 | W | 2 | Yes | France | Interspecific |
| Seyve Villard-18402 | 228 | W | 2 | No | France | Interspecific |
| Seyve Villard-23501 | 229 | W | 2 | Yes | France | Interspecific |
| Shweta Seedless | 230 | T | 1 | No | India | Anab e Shahi x Thompson Seedless |
| SO4 | 231 | R | 2 | Yes | Germany | Interspecific |
| Spin Sahebi | 232 | T | 1 | No | India | vinifera |
| St George | 233 | R | 2 | Yes | USA | rupestris |
| Sundekhani | 234 | T | 1 | No | Afghanistan | vinifera |
| Superior Seedless1 | 235 | T | 4 | No | Australia | vinifera |
| Syrah R | 236 | W | 4 | No | France | vinifera |
| Teleki 5A | 237 | R | 2 | Yes | Australia | Interspecific |
| Tempranillo R | 238 | W | 4 | Yes | France | vinifera |
| Thompson Seedless | 239 | T | 1 | No | France | vinifera |
| Tigrosa | 240 | W | 1 | No | France | vinifera |
| Trebbiano | 241 | W | 4 | Yes | Italy | vinifera |
| Ugni Blanc | 242 | W | 4 | No | France | vinifera |
| V. champinii1 | 243 | R | 2 | No | USA | champinii |
| V. champinii2 | 244 | R | 2 | Yes | USA | champinii |
| V. champinii3 | 245 | R | 2 | Yes | USA | champinii |
| V. flexousa | 246 | J | 4 | No | India | flexousa |
| V. lanata | 247 | W | 2 | No | India | lanata |
| V. longii | 248 | R | 2 | Yes | USA | longii |
| V. parviflora | 249 | W | 4 | Yes | India | flexousa |
| Vermentino W | 250 | W | 4 | No | France | vinifera |
| Viognier W | 251 | W | 4 | No | France | vinifera |
| Waltham Cross | 252 | T | 1 | No | Lebanon | vinifera |
| White Seeded | 253 | T | 4 | No | India | vinifera |
| Yugo1 | 254 | W | 4 | No | Yugoslovia | vinifera |

**63 accessions identified as duplicate/synomym/misnomer/clone**

| **Name of accession** | **Code no** | **Type** | **Matching accession No.** | **Category** | **Origin/Place of collection** | **Parentage/ Species** |
| --- | --- | --- | --- | --- | --- | --- |
| 110R\_1 | 255 | R | 2 | True name | France | Interspecific |
| 110R\_2 | 256 | R | 2 | True name | France | Interspecific |
| 2A Clone | 257 | T | 239 | Clone | USA | vinifera |
| Alden | 258 | T | 99 | Misnomer | India | vinifera |
| Azabella | 259 | W | 51 | Misnomer | USA | labrusca |
| B2/51/36 | 260 | T | 239 | Clone | India | vinifera |
| Black Champa (A2/3/16) | 261 | T | 239 | Misnomer | India | vinifera |
| Black Seedless | 262 | T | 162 | Local name | Russia | vinifera |
| Buckland Sweet | 263 | W | 101 | Misnomer | India | labrusca |
| Cabernet Franc | 264 | W | 75 | True name | France | vinifera |
| Cabernet Sauvignon | 265 | W | 76 | True name | France | vinifera |
| Catawba | 266 | T | 97 | Misnomer | USA | labrusca |
| Ceffer | 267 | W | 51 | Misnomer | USA | labrusca |
| Champanel | 268 | W | 97 | Misnomer | USA | champanii |
| Chaouch | 269 | T | 99 | Misnomer | India | vinifera |
| Chenin Blanc | 270 | W | 89 | True name | France | vinifera |
| Chima Sahebi | 271 | T | 232 | Clone | India | vinifera |
| E/12/3 | 272 | T | 108 | Local name | India | Anab e Shahi x Thompson Seedless |
| E/2/7 | 273 | T | 51 | Local name | India | Arka Kanchan x Black Champa |
| E/5/20 | 274 | T | 122 | Local name | India | Anab e Shahi x Black Champa |
| EC20627 | 275 | W | 162 | Misnomer | India | vinifera |
| EC32135 | 276 | W | 162 | Misnomer | India | vinifera |
| EC36702 | 277 | W | 152 | Misnomer | India | vinifera |
| EC38551 | 278 | T | 162 | Misnomer | India | vinifera |
| Flame Seedless2 | 279 | T | 134 | True name | USA | vinifera |
| Goathe | 280 | T | 51 | Misnomer | India | vinifera |
| Gold | 281 | T | 130 | Misnomer | USA | vinifera |
| Grenache | 282 | W | 142 | True name | France | vinifera |
| H5 Clone | 283 | T | 239 | Clone | Australia | vinifera |
| HY/17/54/4/17 | 284 | T | 150 | Local name | India | vinifera |
| Italian Eliquena | 285 | T | 239 | Misnomer | India | vinifera |
| Kishmish Belyi | 286 | T | 239 | Synonym | Russia | vinifera |
| Kishmish Red | 287 | T | 238 | Misnomer | Armenia | vinifera |
| Kishmish Rozavis | 288 | T | 239 | Synonym | Armenia | vinifera |
| Kishmish Rozavis White | 289 | T | 239 | Clone | India | vinifera |
| Krishna | 290 | T | 162 | Clone | India | vinifera |
| Madhur Angur | 291 | T | 80 | Dialect name | India | vinifera |
| Malagha | 292 | T | 51 | Misnomer | Italy | vinifera |
| Manik Chaman | 293 | T | 239 | Clone | India | vinifera |
| Manjari Naveen | 294 | T | 82 | Clone | India | vinifera |
| Maruti Seedless | 295 | T | 239 | Clone | India | vinifera |
| Merlot mix1 | 296 | W | 171 | Misnomer | India | vinifera |
| Tas a Ganesh | 297 | T | 239 | Clone | India | vinifera |
| Nana Purple | 298 | T | 162 | Clone | India | vinifera |
| Nath Seedless | 299 | T | 162 | Clone | India | vinifera |
| Pierce | 300 | T | 51 | Misnomer | USA | Interspecific |
| PS/II/11/4 | 301 | T | 194 | Local name | India | vinifera |
| Pusa Seedless | 302 | T | 239 | Dialect name | India | vinifera |
| Sarita Seedless | 303 | T | 162 | Clone | India | vinifera |
| Sauvignon Blanc | 304 | W | 219 | True name | France | vinifera |
| Sharad Seedless | 305 | T | 162 | Dialect name | India | vinifera |
| Shiraz | 306 | W | 236 | Synonym | Australia | vinifera |
| Sonaka | 307 | T | 239 | Clone | India | vinifera |
| Sonaka mutant | 308 | T | 239 | Clone | India | vinifera |
| Sultana | 309 | T | 239 | Synonym | Afghanistan | vinifera |
| Sultana Red | 310 | T | 142 | Misnomer | India | vinifera |
| Superior Seedless2 | 311 | T | 235 | True name | Brazil | vinifera |
| Superior Seedless3 | 312 | T | 235 | True name | South Africa | vinifera |
| Thompson Seedless\_1 | 313 | T | 239 | True name | India | vinifera |
| Thompson Seedless\_2 | 314 | T | 239 | True name | India | vinifera |
| Vermentino | 315 | W | 250 | True name | Italy | vinifera |
| Vijay Chaman | 316 | T | 239 | Clone | India | vinifera |
| Zinfandel | 317 | W | 236 | Misnomer | Croatia | vinifera |

\*R - Rootstock, T - Table, W - Wine

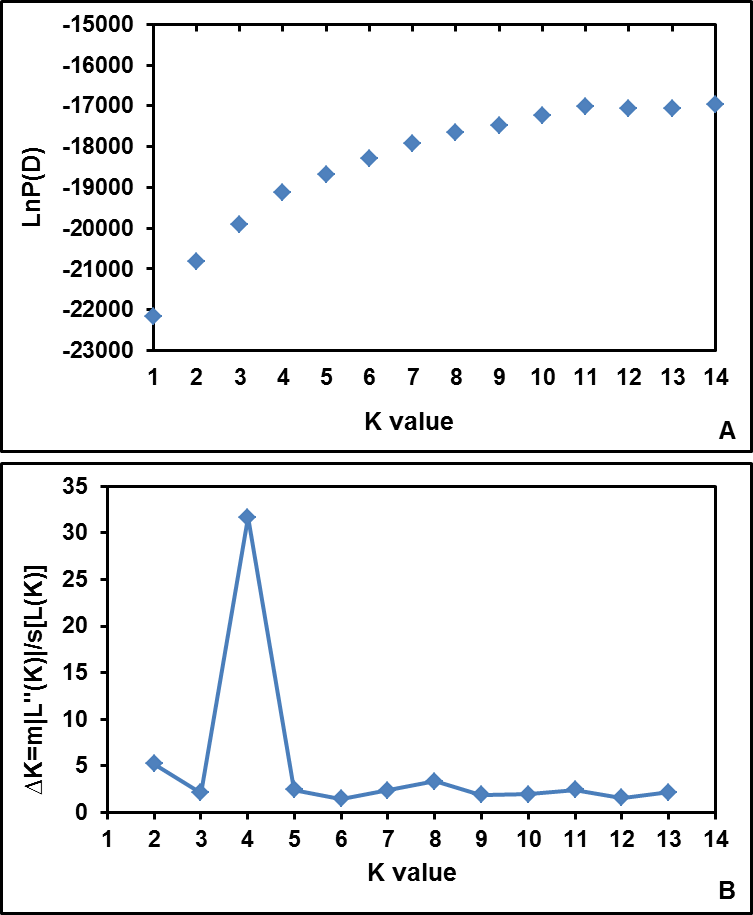
**Table S2** Microsatellite data of 254 unique genotypes at 15 loci

| **Name of genotype** | **VMC 4f8** | **VMC7g3** | **VrZAG62** | **VrZAG79** | **VVI B63** | **VVI I52** | **VVI N33** | **VVI P17A** | **VVI P25B** | **VVI P31** | **VVI V15B** | **VVI V16** | **VVMD7** | **VVMD21** | **VVMD27** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1103P | NA/NA | 114/114 | 195/214 | 252/263 | 154/154 | 86/86 | 269/273 | 84/84 | 345/345 | 190/190 | 84/84 | 113/113 | NA/NA | 221/229 | 199/201 |
| 110R | NA/NA | NA/NA | NA/NA | NA/NA | NA/NA | 86/100 | 273/289 | 84/84 | 364/364 | NA/NA | 84/84 | NA/NA | 233/259 | 221/229 | 187/202 |
| 140Ruggari | 109/109 | 114/114 | 195/214 | 244/260 | 139/148 | 86/100 | 273/289 | 73/84 | 357/357 | 194/194 | 84/84 | NA/NA | 233/259 | 229/229 | 187/202 |
| 1616C | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | NA/NA | 87/87 | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| 41B | 109/119 | 114/116 | 193/193 | 256/260 | 143/150 | 86/93 | 269/281 | 84/93 | 357/360 | 190/194 | 84/93 | 101/113 | 233/241 | 229/267 | 185/187 |
| 99R | 109/112 | 114/118 | 195/214 | 244/260 | 158/158 | 86/100 | 274/290 | NA/NA | NA/NA | 190/190 | 84/84 | NA/NA | 233/259 | 221/229 | 187/202 |
| A/11/1 | 113/120 | 116/134 | 191/203 | 256/258 | 137/143 | 100/100 | 284/284 | 81/98 | 358/360 | 180/188 | 93/97 | 101/101 | 245/249 | 251/257 | 177/192 |
| A/18/3 | 113/113 | 116/116 | 187/187 | 252/260 | 141/143 | 100/100 | 284/284 | 78/83 | 356/360 | 180/190 | 78/78 | 101/101 | 249/255 | 251/251 | 183/192 |
| A/49/4 | 113/113 | 118/118 | 187/187 | 252/252 | 141/143 | 100/100 | 284/284 | 87/98 | 360/360 | 184/190 | 78/78 | 101/101 | 241/255 | 251/259 | 181/183 |
| A2/26/1 | 113/113 | 116/116 | 187/203 | 252/260 | 141/143 | 100/100 | 285/285 | 83/90 | 356/360 | 180/190 | 78/78 | 101/101 | 249/255 | 251/251 | 183/183 |
| A2/26/2 | 113/116 | 116/122 | 187/203 | 252/260 | 143/148 | 100/100 | 285/285 | 90/98 | 356/360 | 184/190 | 93/110 | 91/101 | 241/249 | 251/251 | 183/192 |
| A2/3/1 | 113/113 | 116/122 | 201/203 | 237/247 | 143/143 | 86/98 | 273/290 | 87/87 | 331/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/267 | 177/181 |
| A2/46-2 | 112/112 | 116/132 | 187/187 | 256/260 | 143/143 | NA/NA | 282/286 | 78/93 | 360/360 | NA/NA | 78/93 | 103/103 | 245/249 | 251/257 | 177/179 |
| AH/1/1+ | NA/NA | 116/116 | 187/187 | 248/248 | 137/143 | 84/100 | 284/286 | NA/NA | 356/358 | 180/192 | 78/78 | 101/101 | 241/255 | 251/267 | 177/192 |
| AH/1/23+ | NA/NA | 116/116 | 187/193 | 250/250 | 141/148 | 100/100 | 280/284 | 90/92 | 358/360 | 190/192 | 78/93 | 101/111 | 249/249 | 251/251 | 192/192 |
| AH/1/8 | 118/124 | 116/116 | 187/195 | 252/252 | 141/148 | 100/100 | 280/280 | 77/88 | 360/360 | 178/186 | 78/95 | 101/103 | 245/249 | 259/267 | 183/192 |
| AH/2/20 | NA/NA | 116/116 | 187/203 | 248/248 | 141/148 | 84/84 | 284/284 | 90/90 | 356/358 | 190/192 | 78/78 | 101/101 | 241/249 | 251/267 | 177/183 |
| AH/2/22 | 113/124 | 116/122 | 187/203 | 252/260 | 148/148 | 100/100 | 280/284 | 77/83 | 358/360 | 178/180 | 78/110 | 101/103 | 249/249 | 251/257 | 192/192 |
| AH/2/34 | NA/NA | 116/122 | 187/195 | 244/248 | 137/143 | 84/84 | 280/284 | 77/77 | 358/358 | NA/NA | 78/93 | 101/103 | 241/249 | 251/267 | 177/177 |
| AH/2/4 | NA/NA | 116/122 | 187/203 | 248/248 | 148/148 | 84/84 | 284/284 | 83/90 | 356/360 | 180/192 | 78/78 | 101/101 | 249/249 | 251/251 | 177/179 |
| AH/2/8 | 112/120 | 116/116 | 187/203 | 248/252 | 137/143 | 84/100 | 280/284 | 77/88 | 360/360 | 178/180 | 78/110 | 101/101 | 241/249 | 244/251 | 177/192 |
| AH/3/35 | NA/NA | 116/132 | 187/203 | 248/250 | 141/143 | 84/100 | 282/284 | 92/92 | 356/360 | 184/190 | 78/93 | 101/101 | 249/255 | 244/259 | 179/192 |
| AH/3/6+ | 113/120 | 116/116 | 187/193 | 248/258 | 137/152 | 84/100 | 284/284 | 77/90 | 360/360 | 178/192 | 78/95 | 101/101 | 247/249 | 251/267 | 177/192 |
| AH/4/12+ | 113/120 | 116/116 | 187/203 | 248/260 | 141/148 | 84/100 | 284/284 | 83/90 | 358/360 | 180/192 | 78/78 | 101/101 | 249/259 | 251/251 | 177/192 |
| AH/4/13+ | NA/NA | 116/116 | 187/203 | 248/248 | 137/143 | 84/100 | 280/284 | 77/79 | 358/360 | 178/180 | 78/110 | 101/101 | 241/249 | 251/267 | 177/183 |
| AH/4/15+ | 113/124 | 116/116 | 187/187 | 252/252 | 141/148 | 100/100 | 280/284 | 90/90 | 356/360 | 190/192 | 78/78 | 101/101 | 241/255 | 251/251 | 192/192 |
| AH/4/19 | 113/113 | 118/118 | 187/187 | 248/248 | 141/143 | 84/100 | 284/284 | 98/98 | 356/356 | 184/190 | 78/78 | 101/101 | 241/241 | 251/259 | 179/183 |
| AH/4/19+ | 112/124 | 116/116 | 187/203 | 248/256 | 137/143 | 84/84 | 284/284 | 87/90 | 358/358 | 178/190 | 78/78 | 101/101 | 249/259 | 251/251 | 177/177 |
| AH/4/23+ | 113/124 | 116/122 | 187/195 | 245/245 | 137/143 | 84/100 | 280/280 | 77/88 | 358/358 | 178/186 | 78/78 | 101/101 | 241/249 | 251/267 | 177/192 |
| AH/4/33 | 112/119 | 116/116 | 187/187 | 245/245 | 143/143 | 84/100 | 284/289 | 79/79 | 356/360 | 180/184 | 78/110 | 101/101 | 241/245 | 251/259 | 179/179 |
| AH/4/36+ | 113/113 | 116/122 | 187/203 | 248/260 | 141/143 | 86/100 | 273/284 | 83/87 | 356/360 | 176/180 | 78/78 | 103/103 | 241/251 | 257/257 | 181/192 |
| AH/4/4+ | 113/120 | 116/116 | 187/187 | 248/260 | 137/141 | 100/100 | 280/284 | 77/90 | 356/360 | 180/192 | 78/78 | 101/101 | 241/241 | 251/267 | 192/192 |
| AH/4/5+ | 113/120 | 116/116 | 187/203 | 244/248 | 137/143 | NA/NA | 284/284 | 77/87 | 356/358 | 192/192 | 78/78 | 101/101 | 249/249 | 251/251 | 177/192 |
| AH3/28 | 112/118 | 116/132 | 195/203 | 252/252 | 143/143 | 100/100 | 283/285 | 77/90 | 358/360 | 186/190 | 78/110 | 101/101 | 241/249 | 251/267 | 183/183 |
| Alamwick | 113/124 | 124/126 | 187/187 | 248/256 | 143/143 | 100/104 | 269/286 | 79/88 | 356/360 | 192/192 | 78/114 | 103/103 | 245/250 | 257/257 | 187/192 |
| Alden | 113/124 | 126/126 | 195/203 | 242/258 | 143/143 | 84/100 | 269/286 | 79/87 | 356/360 | 192/192 | 78/114 | 103/103 | 245/249 | 257/257 | 187/192 |
| Amber Queen | 109/116 | 114/118 | 193/201 | 240/248 | 143/143 | 86/98 | 281/284 | 81/81 | 332/360 | 180/192 | 79/93 | 101/101 | 237/249 | 237/251 | 183/185 |
| Amber Sweet | NA/NA | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 273/290 | 87/88 | 331/360 | 176/180 | 78/91 | 101/103 | 237/251 | 251/251 | 177/181 |
| Anab e Shahi | NA/NA | 116/116 | 195/203 | 244/252 | 143/143 | 84/100 | 284/284 | 78/89 | 358/360 | 180/186 | 78/110 | 101/101 | 249/249 | 251/259 | NA/NA |
| Angoor Kalan | 118/124 | 116/116 | 187/195 | 252/258 | 141/148 | 100/100 | 284/290 | 87/98 | 356/360 | 174/186 | 78/95 | 101/103 | 248/252 | 251/257 | 183/192 |
| Arka Chitra | 113/118 | 116/116 | 195/195 | 245/252 | 141/143 | 84/100 | 280/289 | 77/87 | 356/360 | 174/186 | 78/95 | 101/103 | 245/250 | 257/257 | 177/183 |
| Arka Hans | 113/118 | 116/116 | 195/203 | 236/250 | 143/143 | 98/100 | 273/282 | 77/77 | 358/360 | 180/186 | 78/99 | 91/101 | 237/245 | 251/267 | 177/183 |
| Arka Kanchan | 113/124 | 116/116 | 185/195 | 245/250 | 143/143 | 84/93 | 261/280 | 77/87 | 339/360 | 184/186 | 78/78 | 103/103 | 245/251 | 267/267 | 177/177 |
| Arka Majestic | 112/118 | 116/116 | 187/203 | 252/258 | 141/143 | 100/100 | 284/284 | 87/89 | 356/358 | 174/190 | 78/110 | 101/103 | 245/250 | 251/251 | 183/192 |
| Arka Neelmani | 113/122 | 116/116 | 187/187 | 258/258 | 148/148 | 100/100 | 284/286 | NA/NA | 356/358 | 174/192 | 95/99 | 101/103 | 241/243 | 251/251 | 192/192 |
| Arka Shyam | 113/116 | 116/122 | 203/203 | 249/256 | 143/143 | 86/100 | 273/284 | 79/87 | 330/358 | 176/180 | 78/91 | 91/101 | 249/251 | 221/251 | 181/183 |
| Arka Soma | 113/124 | 116/116 | 185/195 | 252/256 | 143/143 | 100/104 | 282/284 | 77/87 | 338/367 | 184/186 | 78/100 | 101/103 | 245/251 | 267/267 | 177/183 |
| Arka Sweta | 112/112 | 116/122 | 187/195 | 245/248 | 143/148 | 84/84 | 280/284 | 77/83 | 356/360 | 184/186 | 78/99 | 101/101 | 245/255 | 257/259 | 177/179 |
| Arka Trishna | 113/113 | 116/116 | 187/203 | 252/260 | 148/148 | 100/100 | 284/284 | 83/89 | 356/358 | 180/180 | 78/78 | 101/101 | 241/250 | 221/251 | 183/192 |
| Arka Vati | 113/113 | 116/122 | 187/203 | 252/260 | 143/148 | 100/100 | 284/284 | 79/83 | 356/360 | 180/180 | 93/110 | 101/103 | 241/250 | 221/251 | 183/192 |
| Arki | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 273/290 | 87/87 | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| Armas | 113/124 | 116/138 | 187/203 | 250/260 | 143/143 | 95/100 | 274/282 | 77/86 | 360/360 | 184/194 | 78/93 | 101/103 | NA/NA | 244/259 | 179/192 |
| Athens | 120/124 | 118/126 | 185/195 | 256/258 | 143/148 | 100/104 | 284/286 | 81/87 | 358/360 | 180/180 | 78/114 | 101/103 | 245/251 | 221/251 | 177/192 |
| B/15/6 | 113/113 | 116/116 | 185/187 | 256/260 | 141/143 | 84/104 | 284/288 | 77/81 | 356/360 | 186/188 | 78/100 | 101/103 | 241/251 | 244/251 | 177/179 |
| B/43/3 | NA/NA | 116/122 | 187/187 | 250/260 | 148/148 | 93/100 | 280/284 | 87/98 | 339/356 | 180/184 | 93/110 | 101/103 | 241/255 | 251/257 | 177/192 |
| B2/15/3 | 113/113 | 116/122 | NA/NA | 248/260 | 148/148 | NA/NA | 284/284 | 83/83 | 356/356 | 180/184 | 93/93 | 101/103 | 241/241 | 251/257 | 179/192 |
| B2/34/2 | 112/113 | 116/116 | 187/203 | 260/260 | 141/143 | 100/100 | 284/284 | 83/90 | 356/358 | 180/180 | 78/78 | 101/101 | NA/NA | 251/251 | 183/192 |
| B2/55/3 | 113/120 | 116/116 | 179/203 | 256/256 | 141/143 | 104/104 | 284/288 | 79/92 | 345/358 | 188/194 | 91/102 | 101/101 | 256/256 | 251/251 | 177/183 |
| B2/56 | 109/112 | 114/118 | 195/214 | 244/260 | 146/158 | 86/100 | 276/292 | 73/84 | 364/364 | 190/190 | 84/84 | NA/NA | 233/259 | 221/229 | 187/202 |
| Babesca Neagra | 112/112 | 116/116 | 193/195 | 252/252 | 143/148 | 100/100 | 284/290 | 79/87 | 341/360 | 178/184 | 76/95 | 103/105 | 237/241 | 244/251 | 183/183 |
| Bangalore Blue | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | NA/NA | NA/NA | 77/87 | 330/330 | 176/180 | 78/78 | 101/103 | 237/251 | 251/251 | 177/181 |
| Bangalore Purple | 112/114 | 116/116 | 203/203 | 252/252 | 143/143 | 102/102 | 284/284 | 79/89 | 358/360 | 188/190 | 102/110 | 101/105 | NA/NA | 251/251 | 177/183 |
| Banqui Abyad | 122/124 | 116/116 | 187/195 | 252/252 | 137/143 | 95/100 | 280/286 | 77/79 | 360/360 | 174/178 | 78/99 | 101/103 | 241/249 | 251/251 | 177/192 |
| Benizuiho | 112/116 | 116/122 | 187/203 | 256/260 | 143/148 | 100/104 | 284/284 | 79/98 | 356/360 | 180/180 | 93/110 | 101/101 | 241/249 | 251/251 | 177/192 |
| Bharat Prince | NA/NA | 116/118 | 185/191 | 240/256 | 143/148 | 98/104 | 279/284 | 81/87 | 358/360 | 180/188 | 78/93 | 101/101 | 249/251 | 251/259 | 177/183 |
| Bhokri | 114/114 | 116/116 | 187/199 | 248/252 | 143/143 | 100/104 | 278/282 | 79/89 | 341/360 | 180/190 | 78/78 | 101/101 | 249/251 | 221/244 | 177/183 |
| Black Cornichon Late | 113/120 | 116/122 | 179/187 | 248/260 | 141/143 | 100/100 | 269/284 | 77/98 | 345/356 | 184/184 | 91/93 | 101/103 | 250/250 | 257/267 | 181/192 |
| Black Damus Rose | 112/116 | 116/116 | 203/203 | 252/256 | 143/143 | 100/104 | 284/284 | 79/89 | 356/358 | 180/190 | 78/110 | 101/101 | 249/249 | 251/251 | 177/183 |
| Black Hamburg | 113/113 | 116/116 | 195/203 | 244/252 | 143/143 | 84/100 | 280/284 | 77/89 | 358/360 | 186/190 | 78/78 | 101/101 | 241/249 | 251/269 | 177/183 |
| Black Monukka | 112/122 | 122/126 | 187/187 | 249/258 | 141/148 | NA/NA | 284/284 | 83/98 | 356/358 | 180/186 | 78/93 | 101/103 | 255/255 | 251/251 | 179/192 |
| Black Muscat | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 274/290 | 87/87 | 332/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| Black Round | 113/113 | 116/122 | 201/201 | 238/248 | 143/143 | 86/98 | 273/290 | 87/87 | 331/360 | 176/180 | 78/91 | NA/NA | 237/251 | 251/251 | 177/181 |
| Black Seedless | 113/113 | 116/116 | 187/203 | 252/260 | 141/143 | 100/100 | 284/284 | NA/NA | 356/358 | NA/NA | 78/78 | 101/101 | 241/249 | 251/251 | 183/192 |
| Buckland Sweet Water | 113/113 | 116/122 | 201/203 | 238/248 | 138/138 | 86/86 | 273/290 | 87/87 | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| Cabernet Franc R | 118/119 | 116/132 | 193/203 | 248/260 | 143/148 | 86/95 | 280/289 | 79/83 | 339/360 | 190/190 | 78/114 | 101/103 | 241/241 | 250/259 | 179/187 |
| Cabernet Sauvignon R | 113/119 | 116/132 | 187/193 | 248/248 | 143/148 | 86/93 | 280/288 | 79/87 | NA/NA | 190/190 | 78/93 | 101/101 | 241/241 | NA/NA | 173/187 |
| Caladoc R | 112/119 | 116/132 | 187/187 | 256/260 | 141/143 | 91/94 | 284/290 | 87/87 | 349/356 | 176/184 | 78/93 | 103/103 | 241/241 | 244/244 | 189/192 |
| Cardinal1 | 113/120 | 116/118 | 185/191 | 241/256 | 143/143 | 104/104 | 278/283 | 81/87 | 358/360 | 180/188 | 78/93 | 101/101 | 249/251 | 251/257 | 177/183 |
| Cardinal2 | 119/119 | 116/118 | 185/185 | 252/254 | 143/143 | NA/NA | 288/292 | 81/87 | 358/360 | 180/188 | 95/102 | 101/101 | 251/251 | 251/267 | 177/183 |
| Carolina Black Rose | 116/120 | 116/116 | 185/195 | 258/262 | 143/143 | 86/100 | 278/284 | 81/83 | 358/360 | 188/194 | 78/82 | 101/101 | 241/251 | 229/251 | 187/192 |
| Castiza | 112/114 | 116/126 | 187/203 | 248/258 | 137/143 | 84/100 | 284/290 | 77/89 | 360/360 | 186/190 | 110/110 | 103/103 | 245/251 | 251/251 | 179/192 |
| Centennial Seedless | 120/120 | 116/116 | 187/187 | 248/256 | 143/143 | 100/104 | 278/278 | 79/98 | 358/360 | 184/186 | 78/95 | 101/103 | 241/241 | 244/251 | 177/192 |
| Champach | 113/113 | 116/122 | 187/189 | 258/258 | 141/143 | 86/88 | 278/278 | 77/77 | 333/333 | 180/194 | 82/93 | 101/111 | 245/253 | NA/NA | 175/207 |
| Charark2 | 112/119 | 116/116 | 195/203 | 246/260 | 143/148 | 86/86 | 284/284 | 79/87 | 360/360 | 180/180 | 78/110 | 101/103 | 241/241 | 251/257 | 183/187 |
| Charark4 | 112/119 | 116/116 | 187/195 | 247/260 | 143/143 | 86/100 | 284/290 | 83/87 | 356/356 | 180/184 | 78/110 | 91/103 | 241/241 | 251/257 | 187/192 |
| Charas | 113/118 | 116/126 | 187/201 | 252/252 | 148/148 | 100/100 | 280/284 | NA/NA | 356/356 | 174/180 | 78/78 | 101/101 | 251/255 | 251/257 | 183/192 |
| Chardonnay | 113/119 | 116/116 | 187/195 | 244/246 | 143/143 | 86/86 | 284/290 | 79/87 | 360/360 | 180/184 | 78/95 | 91/101 | 241/245 | 251/251 | 179/187 |
| Chenanson | 120/120 | 116/116 | NA/NA | 248/256 | 143/143 | NA/NA | 284/286 | 77/77 | 358/360 | 184/186 | 78/99 | 101/103 | 241/249 | 257/267 | NA/NA |
| Chenin W | 113/119 | 116/116 | 187/193 | 248/252 | 143/143 | 86/93 | 284/288 | 79/87 | 341/360 | 180/184 | 78/93 | 101/103 | 241/258 | 251/251 | 173/187 |
| Christmas Rose | 112/120 | 118/118 | 187/187 | 260/260 | 141/143 | 93/95 | 284/290 | 77/93 | 356/360 | 174/180 | 78/93 | 103/103 | 241/251 | NA/NA | 179/192 |
| Cinsaut R | 112/112 | 116/132 | 187/203 | 258/260 | 143/143 | 95/104 | 278/282 | 79/87 | 358/360 | 182/188 | 78/93 | 103/103 | 245/249 | 251/257 | 177/179 |
| Clairette | 112/119 | 116/116 | 193/199 | 247/252 | 148/148 | 93/100 | 284/289 | 79/87 | 358/360 | 184/190 | 78/99 | 103/103 | 251/255 | 244/251 | 177/181 |
| Coarna Alba | 113/124 | 116/126 | 187/203 | 245/258 | 143/148 | 98/100 | 284/284 | 79/88 | 339/356 | 190/192 | 78/95 | 103/103 | 249/255 | 251/251 | 192/192 |
| Coarna Neagra | 112/124 | 116/116 | 187/187 | 252/260 | 143/143 | 95/102 | 274/278 | 79/86 | 358/360 | 184/194 | 78/95 | 101/103 | 241/248 | 257/259 | 177/179 |
| Coarna Regia | 124/124 | 116/126 | 187/203 | 252/252 | 143/148 | 98/100 | 282/282 | 86/86 | 339/360 | 180/180 | 78/78 | 101/103 | 241/248 | 244/257 | 183/183 |
| Colombard W | 113/119 | 130/130 | 187/195 | 244/248 | 143/143 | NA/NA | 287/289 | 77/87 | 356/356 | 180/184 | 76/78 | 103/103 | 241/241 | 251/251 | 173/179 |
| Concord | 113/113 | 116/122 | 201/201 | 238/248 | 143/143 | 86/86 | 273/290 | 87/87 | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/265 | 177/181 |
| Convent Large Black | NA/NA | 116/116 | 203/203 | 252/256 | 141/141 | NA/NA | NA/NA | 83/90 | 341/358 | NA/NA | 78/116 | 101/101 | 249/249 | 251/251 | 177/183 |
| Convergent Large Red | 113/124 | 126/126 | 195/203 | 242/258 | 143/143 | 84/100 | NA/NA | 79/87 | 356/360 | 192/192 | 78/114 | 103/103 | 245/249 | 257/257 | 187/192 |
| Crimson Seedless | 112/120 | 116/126 | 187/187 | 249/258 | 137/143 | 93/100 | 284/289 | 78/78 | 360/360 | 188/190 | 78/110 | 101/103 | 241/251 | 251/251 | 192/192 |
| Dakh | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/98 | 273/289 | 87/87 | 331/360 | 176/180 | 78/78 | 91/103 | 237/251 | 251/251 | 177/181 |
| deGrasset | 113/117 | 118/136 | 197/197 | 240/240 | 143/148 | 84/86 | 273/282 | 87/96 | 350/350 | 190/190 | 76/93 | NA/NA | 235/253 | 221/233 | 193/207 |
| Delight | 112/124 | 116/122 | 195/203 | 244/250 | 148/148 | 84/95 | 284/286 | 87/98 | 356/356 | 180/184 | 78/95 | 101/101 | 241/251 | 257/257 | 177/179 |
| Diamond Jubilee | 114/116 | 116/118 | 201/203 | 252/260 | 137/143 | 95/100 | 284/284 | 87/89 | 358/358 | 180/188 | 102/110 | 101/105 | 249/251 | 251/251 | 179/179 |
| Dogridge | 112/117 | 118/136 | 197/197 | 240/240 | 143/148 | 84/86 | 273/282 | 77/93 | 350/350 | NA/NA | 76/93 | 99/103 | 235/253 | 221/233 | 193/207 |
| Doradillo | NA/NA | 116/116 | 187/193 | 244/250 | 137/143 | 84/93 | 274/280 | 79/79 | 360/360 | 176/190 | 78/110 | 103/111 | 249/251 | 251/257 | 177/179 |
| E/12/2 | 113/118 | 116/116 | 195/195 | 250/252 | 143/152 | 93/93 | 281/281 | 77/88 | 330/358 | 180/186 | 78/95 | 101/101 | 237/245 | 251/267 | 183/183 |
| E/12/7 | 113/113 | 116/122 | 187/195 | 244/248 | 141/143 | 84/84 | NA/NA | 77/83 | 356/358 | 184/186 | 93/99 | 101/101 | 241/241 | 251/267 | 177/179 |
| E/19/4 | 116/118 | 116/116 | 195/203 | 252/256 | 143/143 | 104/104 | 282/284 | 77/89 | 358/360 | 180/186 | 78/99 | 101/103 | 241/249 | 251/259 | 177/183 |
| E/2/1 | 112/113 | 116/116 | 187/201 | 248/248 | 143/143 | 84/98 | 280/284 | NA/NA | 358/358 | 180/186 | 78/99 | 101/101 | 241/250 | 251/259 | 177/177 |
| E/29/3 | 112/113 | 116/122 | 187/187 | 248/260 | 141/148 | 100/100 | 286/286 | 83/98 | 356/356 | 180/184 | 78/93 | 101/103 | 241/255 | 251/257 | 179/192 |
| E/29/6 | 112/113 | 116/122 | 187/203 | 252/260 | 143/148 | 84/100 | NA/NA | NA/NA | 356/360 | 180/190 | 93/110 | 101/101 | 249/255 | 251/257 | 179/179 |
| E/29/7 | 112/112 | NA/NA | 187/203 | 248/256 | 143/148 | 104/104 | NA/NA | 79/98 | 356/360 | 180/184 | 78/93 | 101/103 | 249/255 | 251/257 | 177/179 |
| E/31/4 | 113/116 | 116/116 | 195/203 | 252/258 | 143/143 | 100/100 | 285/285 | 77/79 | 358/360 | 180/188 | 78/110 | 101/105 | 245/249 | 251/251 | 183/192 |
| E/31/5 | 112/116 | 116/122 | 187/203 | 256/260 | 143/148 | 100/104 | 285/285 | 79/98 | 356/360 | 180/180 | 93/110 | 101/101 | 241/249 | 251/251 | 177/192 |
| E/32/8 | 112/116 | 116/116 | 187/203 | 248/248 | 143/148 | 100/100 | 285/285 | 79/98 | 356/360 | 180/180 | 78/110 | 101/101 | 249/255 | 251/251 | 183/192 |
| E/34/29 | 112/116 | NA/NA | 187/203 | 256/260 | 143/148 | 100/104 | 285/285 | 79/98 | 356/360 | 180/180 | 93/110 | 101/105 | 241/249 | 251/251 | 177/177 |
| E/4/15 | 113/118 | 116/116 | 195/195 | 244/252 | 141/143 | 84/84 | 280/290 | 77/87 | 356/360 | 174/186 | 78/95 | 101/103 | 245/249 | 257/259 | 177/183 |
| E/5/12 | 113/116 | 116/116 | 195/203 | 245/252 | 143/143 | 84/84 | 280/284 | 77/89 | 358/360 | 186/190 | 78/78 | 101/101 | 241/249 | 251/267 | 177/183 |
| E/5/4 | NA/NA | 116/122 | 187/187 | 248/260 | 141/148 | 100/100 | 285/285 | 83/98 | 356/356 | 180/184 | 78/93 | 91/103 | 241/255 | 251/257 | 179/179 |
| E/6/2 | 116/118 | 116/116 | 195/203 | 245/252 | 143/143 | 100/100 | 280/284 | 77/79 | NA/NA | 180/186 | 99/110 | 101/101 | 241/249 | NA/NA | 183/183 |
| E/7/22 | 116/118 | 116/116 | 195/203 | 252/252 | 143/143 | 100/100 | 282/284 | 77/78 | 358/358 | 186/190 | 99/110 | 101/101 | 241/249 | 251/267 | 183/183 |
| E/7/24 | 112/113 | 116/116 | 195/203 | 252/256 | 143/143 | 104/104 | 282/285 | 77/90 | 358/360 | 180/186 | 100/110 | 101/101 | 245/249 | 251/259 | 177/183 |
| E/8/5 | 112/118 | 116/116 | 195/203 | 252/252 | 143/143 | 100/100 | 282/284 | 77/90 | 358/360 | 186/190 | 78/110 | 101/103 | 241/250 | 251/267 | 183/183 |
| Early Perlette | 113/124 | 116/116 | 187/203 | 248/256 | 143/148 | NA/NA | NA/NA | 83/88 | 356/360 | 174/180 | 78/99 | 101/103 | 249/255 | NA/NA | 177/179 |
| EC27820 | 108/112 | 116/116 | 185/203 | 252/256 | 143/143 | 104/104 | 286/288 | 87/87 | 360/360 | 174/180 | 95/99 | 101/101 | 247/247 | 257/267 | 177/183 |
| EC27830 | 113/119 | 116/132 | 193/203 | 252/260 | 143/150 | 86/86 | 278/282 | 83/88 | 360/360 | 182/194 | 93/99 | 101/101 | 241/248 | 251/267 | 183/187 |
| EC36506 | 112/112 | 116/116 | 193/203 | 238/252 | 143/143 | 98/100 | 282/282 | 87/87 | 360/360 | 178/178 | 76/95 | 101/105 | 248/251 | 244/251 | 177/183 |
| F/26/8 | 118/118 | 116/116 | 195/195 | 252/258 | 141/143 | 100/100 | 282/284 | 77/98 | 360/360 | 186/186 | 78/95 | 101/101 | 245/249 | 257/267 | 183/192 |
| Fakri | 113/118 | 116/116 | 187/203 | 252/258 | 143/148 | 84/100 | 284/290 | 87/89 | 356/360 | 184/188 | 95/114 | 101/103 | 249/255 | 251/251 | 177/192 |
| Fantasy Seedless | 120/122 | 116/116 | 185/191 | 258/260 | 143/143 | 100/100 | 284/290 | 78/81 | 356/358 | 180/186 | 78/78 | 103/103 | 241/251 | 251/251 | 192/192 |
| Feteasca Alba | 112/112 | 116/126 | 193/203 | 248/252 | 143/143 | 86/100 | 284/290 | 79/87 | 360/360 | 174/184 | 110/114 | 91/101 | 241/247 | NA/NA | 187/192 |
| Feteasca Neagra | 113/113 | 116/122 | 187/187 | 248/260 | 141/148 | 100/100 | 284/284 | 81/98 | 356/356 | 180/184 | 78/93 | NA/NA | 241/247 | 251/257 | 179/192 |
| Flame Seedless | NA/NA | NA/NA | NA/NA | 244/248 | 143/148 | 84/84 | 280/284 | 77/83 | 356/360 | 184/186 | 78/100 | 101/101 | NA/NA | 257/259 | 177/179 |
| Freedom | 113/113 | 122/122 | 187/189 | 258/258 | 143/145 | 86/86 | 280/280 | 82/88 | NA/NA | NA/NA | 82/86 | 99/99 | 245/253 | 229/237 | 175/184 |
| Fruhroter Veltiner | 113/113 | 116/122 | 201/201 | 238/248 | 143/143 | 86/86 | NA/NA | NA/NA | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/265 | 177/181 |
| Frumver Gunder | NA/NA | 116/132 | 185/197 | 244/248 | 141/141 | 84/84 | 285/290 | 79/79 | 360/360 | 176/190 | 84/110 | NA/NA | 251/251 | 244/244 | 179/179 |
| Garganega | 112/124 | 116/116 | 199/199 | 252/252 | NA/NA | 98/100 | 282/289 | 77/87 | 339/358 | 176/190 | 78/99 | 103/103 | 251/255 | 251/251 | 177/192 |
| Gewurztraminer P | 119/119 | 116/116 | 187/193 | 246/252 | 143/143 | 86/86 | 284/284 | 77/87 | 360/360 | 180/194 | 78/93 | 101/103 | 245/258 | NA/NA | 187/187 |
| Golden Queen | 113/119 | 116/116 | 185/201 | NA/NA | 148/148 | 84/104 | 273/290 | 77/87 | 360/360 | 176/188 | 79/79 | 101/103 | 251/251 | 251/251 | 177/179 |
| Grasa de Cotnari | 112/116 | 116/116 | 195/203 | 238/252 | 143/143 | 100/100 | 278/280 | 79/79 | 360/360 | 184/194 | 78/95 | 103/103 | 237/247 | 251/259 | 177/192 |
| Grenache N | 112/113 | 116/118 | 187/187 | 258/258 | 141/143 | 93/93 | 288/290 | 79/87 | 349/358 | 176/184 | 78/110 | NA/NA | 241/245 | 244/251 | 192/192 |
| Gros Manseng W | 119/119 | 116/132 | 193/193 | 252/252 | 137/143 | 86/93 | 282/283 | 87/87 | 339/339 | 182/182 | 78/93 | 101/103 | 241/258 | 250/250 | 187/187 |
| Gulabi1 | 119/120 | 108/116 | 185/191 | NA/NA | 143/148 | 86/98 | 278/284 | NA/NA | 358/360 | NA/NA | 78/93 | 101/101 | 249/251 | 251/257 | 177/183 |
| Gulabi2 | 119/120 | 116/118 | 185/191 | 241/256 | 143/148 | 98/104 | 278/284 | NA/NA | 358/360 | NA/NA | 78/93 | 101/101 | 249/251 | 251/257 | 177/183 |
| H144 | 112/115 | 116/118 | 189/203 | 242/242 | 143/154 | 84/84 | 269/283 | 90/96 | 332/360 | 180/180 | 93/110 | 101/101 | 249/249 | 251/257 | 185/185 |
| H533 | 111/119 | 118/118 | 185/187 | 252/260 | 146/148 | 95/100 | 262/284 | NA/NA | 358/358 | 180/180 | 88/93 | 101/101 | 235/250 | 227/257 | 177/204 |
| Haitha | 113/124 | 116/126 | 187/203 | 244/258 | 143/148 | 98/100 | 284/284 | 79/87 | 339/356 | 192/196 | 78/95 | 101/101 | 249/255 | 251/251 | 192/192 |
| Hussain Black Kabuli | 112/116 | 116/116 | 203/203 | 252/256 | 143/143 | 104/104 | 284/284 | 79/89 | 358/360 | 180/190 | 78/110 | 101/101 | 249/249 | 251/251 | 177/183 |
| HY/23/14/23 | 120/124 | 118/126 | 185/195 | 256/258 | 143/148 | 100/104 | 284/286 | 81/87 | 358/360 | 180/180 | 78/114 | 101/103 | 245/251 | 251/257 | 177/192 |
| Isabella | 115/124 | 108/126 | NA/NA | 242/248 | 150/150 | 84/98 | 269/282 | 77/87 | 358/360 | NA/NA | 78/93 | 101/103 | 245/251 | 244/257 | 183/185 |
| Italia | 113/120 | 116/134 | 191/203 | 256/258 | 137/143 | NA/NA | 284/284 | 87/87 | 358/360 | 180/188 | 93/97 | 101/101 | 245/249 | 251/257 | 177/192 |
| Jahfari | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | NA/NA | 273/289 | 87/87 | 330/330 | NA/NA | 78/91 | 101/101 | 237/251 | 251/251 | 177/181 |
| Jaos Beli | 113/114 | 116/116 | 187/195 | 252/258 | 143/143 | 98/100 | 282/284 | 77/87 | 356/360 | 188/188 | 78/114 | 101/101 | 245/249 | 251/251 | 183/192 |
| July Muscat | 113/118 | 116/116 | 182/195 | 245/252 | 148/148 | 84/84 | 280/282 | 79/81 | 358/358 | 180/188 | 78/99 | 101/101 | 241/245 | 259/267 | 177/183 |
| Kali Sahebi | 112/116 | 116/116 | 201/203 | 252/256 | 148/148 | 104/104 | 284/284 | NA/NA | 358/360 | NA/NA | 78/78 | NA/NA | 249/250 | 251/251 | 177/183 |
| Katta | 114/120 | 126/126 | 185/193 | 244/248 | 143/148 | 86/100 | 280/290 | 77/79 | 339/358 | 176/188 | 78/78 | 101/103 | 251/251 | 244/257 | 187/187 |
| Katta Kurgaon | 113/122 | 116/116 | 187/187 | 248/258 | 143/148 | 84/100 | 284/284 | 87/87 | 358/360 | 180/192 | 95/114 | 101/103 | 245/255 | 253/253 | 177/192 |
| Keewahdin | 116/119 | 116/118 | 191/193 | 240/259 | 143/143 | 95/95 | 278/284 | 81/87 | 358/360 | 180/192 | 82/93 | 101/101 | 248/248 | 251/251 | 179/183 |
| Khalili Noir | 113/113 | 118/118 | NA/NA | 241/249 | 143/148 | 86/86 | 273/283 | 87/87 | 350/360 | 186/190 | 76/95 | 101/101 | 243/253 | 221/241 | 183/193 |
| Khatta Angur | 113/113 | 116/122 | 187/189 | 258/258 | 141/143 | 86/88 | 253/281 | 77/77 | 333/333 | 180/180 | 82/93 | 101/111 | 245/253 | 221/241 | 175/207 |
| Kishmish Chernyi | 113/113 | 116/122 | 187/201 | 248/248 | 148/148 | 84/100 | 280/284 | 87/98 | 356/356 | 180/184 | 78/93 | 101/101 | 251/255 | 251/257 | 179/192 |
| Kishmish Luchisty | 112/113 | 116/116 | 185/187 | 252/260 | 141/143 | 100/100 | 284/284 | 87/98 | 356/360 | 180/184 | 78/95 | 101/103 | 241/251 | 251/257 | 183/192 |
| Kishmish Moldavski | 113/122 | 116/118 | 187/187 | 240/248 | 143/148 | 84/98 | 284/284 | 87/98 | 356/358 | 184/188 | 78/78 | 101/101 | 241/251 | 251/259 | 179/183 |
| Lahore Local | 113/118 | 116/116 | 187/203 | 252/258 | 143/148 | 84/100 | 284/289 | 87/89 | 356/360 | 184/188 | 95/114 | 101/103 | 249/255 | 251/251 | 177/192 |
| Lake Emerald | 109/113 | 116/116 | 179/185 | 241/250 | 148/152 | 89/89 | 269/286 | 81/92 | 351/360 | 180/180 | 88/95 | 103/103 | 239/251 | 237/257 | 177/183 |
| Large white | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 273/290 | 87/87 | 332/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| Loose Perlette | 113/124 | 116/116 | 187/203 | 248/256 | 143/148 | NA/NA | NA/NA | 83/87 | 356/360 | NA/NA | 78/99 | 101/103 | 249/255 | 251/257 | 177/179 |
| Madeleine Angevine | 113/113 | 115/115 | 193/203 | 250/260 | 141/143 | 95/100 | 278/282 | 87/92 | 360/360 | 180/190 | 93/99 | 101/101 | 249/249 | 221/244 | 179/192 |
| Maroo Seedless | 112/120 | 116/116 | 195/203 | 258/258 | 143/148 | 93/100 | 284/284 | NA/NA | 358/360 | 190/194 | 78/82 | 101/101 | 241/251 | 251/259 | 192/192 |
| Merlot Mix | 113/113 | 116/116 | NA/NA | NA/NA | 143/148 | NA/NA | 278/280 | 78/99 | 352/360 | 176/188 | 78/100 | 101/103 | 241/241 | 244/251 | NA/NA |
| Merlot R | 118/118 | 116/132 | 193/193 | 260/260 | 143/148 | 86/93 | 284/290 | 79/79 | 360/360 | 184/190 | 78/93 | 103/103 | 241/249 | 244/249 | 187/189 |
| Motia | 116/116 | 116/116 | 193/201 | 238/240 | 137/143 | 98/98 | 284/284 | 79/87 | 358/360 | 180/192 | 78/82 | 101/101 | 249/251 | 251/257 | 183/183 |
| Mourvadre | 113/113 | 116/118 | 187/203 | 252/262 | 141/143 | 93/95 | 278/282 | 87/87 | 341/360 | NA/NA | 110/114 | 101/103 | 249/249 | 244/251 | 177/187 |
| Muscat Hamburg | 120/122 | 118/126 | 185/193 | 248/256 | 143/143 | NA/NA | 278/284 | 77/79 | 339/358 | 186/188 | 78/93 | 101/103 | 251/251 | 249/257 | 177/177 |
| Muscat of Alexandria | NA/NA | 116/134 | 191/203 | 256/258 | 137/143 | 100/104 | 284/284 | 81/98 | 358/360 | 180/188 | 93/97 | 101/101 | 245/249 | 251/257 | 177/192 |
| Muscat White | 120/124 | 116/116 | 185/195 | 252/256 | 143/143 | 100/104 | 284/288 | 85/88 | 361/361 | 184/188 | 99/110 | 103/103 | 235/251 | 251/267 | 177/192 |
| Neagra Vertis | 112/112 | 116/116 | 193/203 | 238/238 | 143/143 | 98/100 | 282/284 | 87/87 | 360/360 | 178/178 | 76/95 | NA/NA | 251/251 | 244/251 | 177/183 |
| New Perlette | 113/124 | 116/116 | 187/203 | 248/256 | 143/148 | 84/104 | 284/287 | 83/87 | 356/360 | 174/180 | 78/99 | 101/101 | 249/255 | 251/257 | 177/179 |
| Niellucio R | 112/124 | 116/138 | 193/195 | 245/260 | 141/141 | 98/104 | 278/289 | 87/87 | 341/358 | 192/192 | 78/116 | 103/103 | 241/241 | 244/251 | 177/183 |
| Olympia | 113/113 | 116/118 | 185/201 | 238/240 | 143/148 | 86/98 | 278/286 | 81/81 | 330/360 | 176/180 | 78/95 | 103/103 | 237/249 | 257/257 | 177/183 |
| Omania Black | 118/124 | 116/116 | 191/195 | 248/248 | 143/143 | 84/95 | 280/284 | 77/87 | 360/362 | 174/174 | 78/99 | 101/103 | 245/251 | 251/267 | 177/177 |
| Palomino | 113/120 | 116/116 | 187/193 | 252/258 | 143/143 | 93/100 | 284/289 | 77/87 | 341/360 | 188/190 | 95/114 | NA/NA | 241/251 | 221/244 | 183/192 |
| Pandhari Sahebi | 113/124 | 126/126 | NA/NA | 242/258 | 143/143 | 84/100 | NA/NA | 79/87 | 356/360 | 192/192 | 78/114 | 103/103 | 245/249 | 257/257 | 187/192 |
| Pearl of Csaba | 113/113 | 116/122 | 187/189 | 257/257 | 141/143 | 86/88 | 253/281 | NA/NA | 333/333 | NA/NA | 82/93 | 101/111 | 245/253 | 229/251 | 175/207 |
| Periquita | 113/118 | 116/122 | 195/201 | 238/244 | 143/143 | 84/84 | 282/290 | NA/NA | 330/360 | 180/188 | 78/99 | 91/103 | 237/245 | 267/267 | 177/177 |
| Perlette | 113/124 | 116/116 | 187/203 | 248/256 | 143/148 | 84/104 | 284/287 | 83/87 | 356/356 | 174/180 | 78/99 | 101/101 | 249/255 | 251/257 | 177/179 |
| Peru White | 113/124 | 116/116 | 185/195 | 252/256 | 143/143 | 100/104 | 282/284 | 77/87 | 339/360 | 184/186 | 78/99 | 101/103 | 245/251 | 267/267 | 177/183 |
| Petit Verdot R | 119/119 | 132/132 | 193/203 | 252/256 | 143/143 | 86/104 | 276/287 | 87/87 | 336/336 | 180/194 | 78/78 | 101/103 | 241/241 | 251/251 | 177/187 |
| Pinot Noir | 113/119 | 116/132 | 187/193 | 241/247 | 143/143 | NA/NA | 284/284 | 87/87 | 360/360 | 180/184 | 78/93 | 101/103 | 241/245 | 250/250 | 183/187 |
| Piroz Tramine | 113/113 | 116/116 | 185/187 | 256/260 | 141/143 | 84/104 | 284/288 | NA/NA | NA/NA | NA/NA | 78/99 | 101/103 | 241/251 | 244/251 | 177/179 |
| PNxChardonnay | 113/113 | 116/132 | 185/187 | 244/248 | 141/143 | 84/84 | 282/290 | 79/91 | 360/360 | 184/190 | 93/95 | 91/101 | 245/245 | 244/250 | 179/179 |
| PS/II/2/28 | 118/122 | 116/122 | 187/195 | 250/252 | 146/148 | 95/100 | 278/278 | 71/77 | 358/358 | 186/188 | 78/95 | NA/NA | 241/245 | 257/259 | 181/183 |
| PS/III/11/1 | 113/118 | 116/118 | 195/197 | 248/252 | 148/148 | 86/86 | 274/283 | 98/98 | 350/360 | 186/188 | 78/95 | 101/103 | 245/253 | 221/259 | 183/183 |
| PS/III/12/14 | 114/124 | 108/116 | 187/203 | 242/248 | 143/148 | 84/86 | 272/284 | 83/98 | 360/360 | 188/192 | 78/114 | 101/103 | 245/249 | 251/257 | 179/187 |
| PS/III/12/3 | 112/114 | 116/116 | 187/195 | 244/252 | 143/148 | 86/86 | 282/288 | 77/83 | 360/360 | 186/186 | 78/99 | 103/103 | 241/245 | 244/259 | 187/187 |
| PS/III/13/2 | 114/114 | 110/113 | 187/195 | 242/252 | 143/148 | 84/84 | 270/283 | NA/NA | 360/360 | 188/188 | 78/78 | 101/101 | 245/245 | 257/259 | 187/187 |
| PS/III/8/6 | 112/114 | 116/122 | 187/187 | 244/252 | 143/143 | 86/86 | 282/288 | 83/98 | 358/360 | 180/188 | 78/78 | 101/103 | 241/245 | 244/251 | NA/NA |
| Pusa Navrang | 112/113 | 116/132 | 185/203 | 248/250 | 141/143 | 84/100 | 282/289 | 79/92 | 360/360 | 190/190 | 93/110 | 101/111 | 249/249 | 244/244 | 179/192 |
| Pusa Urvashi | 124/124 | 116/116 | NA/NA | 248/256 | 148/148 | 84/104 | 280/288 | 87/90 | 356/358 | 178/184 | 78/78 | 101/103 | 237/250 | 251/257 | 177/177 |
| Queen of Vineyards | 124/124 | 116/116 | 185/187 | 250/256 | 148/148 | 93/104 | 280/284 | 87/87 | 339/360 | 184/184 | 78/110 | 103/103 | 241/251 | 257/267 | 177/177 |
| Rangspey Black | 112/124 | 116/122 | 187/187 | 252/260 | 141/148 | 100/100 | 280/284 | 77/83 | 356/360 | NA/NA | 78/93 | 101/101 | 241/249 | 251/251 | 192/192 |
| Rangspey W | 115/124 | 116/116 | 203/203 | 248/248 | 143/143 | 86/98 | 282/282 | 77/79 | 333/360 | 192/192 | 78/78 | 101/101 | 249/249 | 249/257 | 179/183 |
| Rangspey White | 124/124 | NA/NA | 187/203 | 248/256 | 143/143 | NA/NA | 273/287 | 87/90 | 356/360 | 180/180 | 78/78 | 101/101 | 251/255 | 251/257 | 177/181 |
| Red Globe | 114/120 | 116/126 | 185/187 | 248/260 | 137/137 | NA/NA | 278/284 | 78/93 | 360/360 | 174/186 | 78/93 | 101/103 | 241/251 | 244/267 | 179/179 |
| Red Muscat | 113/113 | 126/126 | 195/203 | 242/258 | 143/143 | 84/100 | 269/285 | 79/87 | 356/360 | 192/192 | 78/114 | 103/103 | 245/249 | 257/257 | 187/192 |
| Red Prince | 112/112 | 116/116 | 203/203 | 252/256 | 143/143 | 100/104 | 284/284 | 79/89 | 358/360 | 180/190 | 78/110 | 101/101 | 249/249 | 251/251 | 177/183 |
| Ribier | 114/120 | 116/118 | NA/NA | 240/240 | 143/143 | NA/NA | 284/284 | 79/81 | 358/358 | NA/NA | 78/102 | 101/101 | 251/256 | 251/251 | 183/183 |
| Riesling W | 113/113 | 108/116 | 193/203 | 244/246 | 141/143 | NA/NA | 284/290 | 77/77 | 358/360 | 176/184 | 93/95 | 101/103 | 251/258 | 251/251 | 179/187 |
| Rizamet | 113/118 | 116/116 | 187/195 | 248/258 | 141/143 | 84/100 | 284/286 | 87/98 | 356/358 | 180/186 | 78/95 | NA/NA | 235/248 | 251/253 | 177/192 |
| Rosaria Bianca | 113/124 | 116/116 | NA/NA | 252/252 | 137/143 | NA/NA | 284/289 | 87/87 | 358/360 | NA/NA | 78/114 | 103/103 | 241/255 | 251/267 | 177/192 |
| Rose Ciotat | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 273/289 | 77/87 | 330/360 | 176/180 | 78/91 | NA/NA | 237/251 | 251/251 | 177/181 |
| Rose of Penn | 113/113 | 116/122 | 201/203 | 238/248 | 143/143 | 86/86 | 273/290 | 87/87 | 330/360 | 176/180 | 78/91 | 91/103 | 237/251 | 251/251 | 177/181 |
| RS No19 | 112/124 | 118/120 | 189/195 | 256/263 | 143/148 | 86/86 | 255/272 | 81/81 | NA/NA | 190/190 | 86/93 | 99/99 | 245/258 | 229/229 | 195/204 |
| Ruby Red | 112/118 | 116/132 | 185/197 | 244/248 | 141/141 | 84/84 | 284/289 | 79/79 | 360/360 | 176/190 | 84/110 | 103/111 | 251/251 | 244/244 | 179/179 |
| Sahebi Ali | 113/124 | 116/126 | 187/203 | 244/258 | 143/148 | 98/100 | 284/284 | 79/87 | 339/356 | 190/192 | 78/95 | 101/101 | 249/255 | 251/251 | 192/192 |
| Salt Creek | 114/119 | 120/126 | 201/201 | 238/256 | 148/148 | 86/86 | 273/282 | 84/87 | 350/350 | 188/188 | 84/84 | NA/NA | 235/235 | 231/231 | 189/211 |
| Saperavi | 113/116 | 124/124 | 187/199 | 244/260 | 143/143 | 86/93 | 274/274 | 79/79 | 345/356 | 182/182 | 99/102 | 101/103 | 241/241 | 244/244 | 187/189 |
| Sauvignon W | 113/113 | 116/116 | 187/193 | 246/248 | 143/143 | 86/93 | 284/288 | 87/87 | 341/360 | 190/194 | 82/93 | 101/103 | 241/258 | 244/250 | 173/187 |
| Sckeri | 113/113 | 138/138 | 185/203 | NA/NA | 141/143 | 100/100 | 257/281 | 79/79 | 358/360 | 184/188 | 97/99 | 101/101 | 251/251 | 257/257 | 177/192 |
| Seibel 9308 | 117/119 | 116/116 | 191/201 | 256/261 | 148/154 | 86/104 | 279/290 | NA/NA | 358/360 | 180/188 | 78/95 | 101/101 | 249/249 | 229/257 | 177/187 |
| Seibel 9813 | NA/NA | 115/115 | 179/193 | 256/261 | 143/154 | 93/100 | 278/278 | NA/NA | 360/360 | 180/180 | 84/99 | NA/NA | NA/NA | 244/244 | 177/187 |
| Semillon | 124/124 | 116/116 | 195/199 | 241/252 | 143/143 | 86/86 | 284/290 | 79/87 | 341/358 | 180/184 | 110/114 | 103/103 | 241/255 | 251/251 | 183/187 |
| Seyve Villard-12309 | 113/113 | 116/116 | 187/189 | 257/257 | 154/154 | 86/88 | 278/278 | NA/NA | 360/360 | 176/176 | 82/84 | 101/103 | 239/241 | 251/257 | 187/192 |
| Seyve Villard-12364 | 113/113 | 116/116 | 179/187 | 259/261 | 154/154 | 86/86 | 278/278 | 79/79 | 358/360 | NA/NA | 84/93 | 101/101 | 239/245 | 235/244 | 187/187 |
| Seyve Villard-12375 | 113/113 | 116/116 | 179/193 | 256/261 | 143/154 | 86/98 | 278/278 | 79/81 | 358/360 | NA/NA | 78/110 | 103/103 | 239/253 | 229/257 | 179/187 |
| Seyve Villard-18315 | 111/115 | 116/118 | 179/201 | 250/261 | 154/154 | 86/86 | 278/278 | NA/NA | 360/360 | 176/186 | 93/110 | 111/111 | 239/239 | 229/251 | 185/187 |
| Seyve Villard-18402 | 113/113 | 118/118 | 187/193 | 246/261 | 154/154 | 86/93 | 284/284 | 79/79 | 360/360 | 186/190 | 78/93 | 103/111 | 241/245 | 251/251 | 187/192 |
| Seyve Villard-23501 | 113/119 | 116/116 | 187/201 | 259/261 | 154/154 | 86/93 | 278/278 | NA/NA | 360/360 | NA/NA | 93/110 | NA/NA | 245/245 | 229/251 | 187/192 |
| Shweta Seedless | 112/118 | 116/122 | 187/195 | 244/248 | 143/148 | 84/84 | 280/284 | NA/NA | 356/360 | NA/NA | 78/99 | 101/101 | 245/255 | 257/259 | 177/179 |
| SO4 | 108/114 | 114/126 | 199/214 | 256/260 | 154/154 | 86/98 | 262/279 | 79/84 | 345/345 | NA/NA | 84/84 | 99/103 | 233/241 | 221/221 | 187/189 |
| Spin Sahebi | 118/118 | 116/126 | 187/195 | 252/258 | 143/148 | 98/100 | 282/284 | 87/87 | 360/360 | 184/188 | 78/78 | 101/103 | 241/249 | 251/251 | 192/192 |
| St George | 108/113 | 120/126 | 189/214 | 252/256 | 143/143 | 93/97 | 262/278 | 81/92 | 343/343 | NA/NA | 82/84 | 101/103 | 235/245 | 221/229 | 195/201 |
| Sundekhani | 112/122 | 116/122 | 187/195 | 252/258 | 143/148 | 98/100 | 284/287 | 83/98 | 358/360 | 180/188 | 78/93 | 103/103 | 241/245 | 244/257 | 177/192 |
| Superior Seedless1 | NA/NA | NA/NA | 187/187 | NA/NA | 143/143 | 100/104 | 278/278 | 77/81 | 356/360 | 186/188 | 78/99 | NA/NA | 239/239 | NA/NA | 177/192 |
| Syrah R | 113/119 | 116/132 | 187/193 | 246/252 | 137/148 | 86/93 | 282/288 | 79/87 | 339/360 | 182/190 | 78/100 | 101/103 | 241/241 | 249/267 | 187/189 |
| Teleki 5A | 112/124 | 120/120 | 189/189 | 256/258 | 143/145 | 86/93 | 255/262 | 81/81 | 343/343 | NA/NA | 82/86 | 99/101 | 245/253 | 229/263 | 195/204 |
| Tempranillo R | 118/124 | 116/116 | 195/199 | 248/252 | 137/143 | 93/93 | 282/289 | 79/79 | 341/348 | 178/178 | 78/78 | 103/103 | 241/255 | 250/257 | 181/181 |
| Thompson Seedless | 112/113 | 116/122 | 187/187 | 248/260 | 141/148 | 84/100 | 284/284 | 83/98 | 356/356 | 180/184 | NA/NA | 101/103 | 241/255 | 251/257 | 179/192 |
| Tigrosa | 114/124 | 116/116 | 199/203 | 248/252 | 143/148 | NA/NA | 284/284 | 77/87 | 358/360 | 186/190 | 99/102 | 101/101 | 245/249 | 251/257 | 177/183 |
| Trebbiano | 112/119 | 108/116 | 193/199 | 247/252 | 148/148 | 93/100 | 284/289 | 79/87 | 358/360 | 184/190 | 78/99 | 103/103 | 249/253 | 221/244 | 177/181 |
| Ugni Blanc | 112/119 | 116/116 | 193/199 | 247/252 | 141/143 | 93/100 | 284/290 | 79/87 | 358/360 | 184/190 | 78/99 | 103/103 | 251/255 | 221/244 | 177/181 |
| V. champinii1 | 114/119 | 120/126 | 201/201 | 238/256 | 148/148 | 86/86 | 274/283 | 87/98 | 350/350 | 188/188 | NA/NA | NA/NA | 235/235 | 231/259 | 189/211 |
| V. champinii2 | 112/117 | 118/136 | 197/197 | 239/239 | 143/148 | 84/86 | 273/282 | 87/96 | 350/350 | 190/190 | 76/93 | NA/NA | 235/253 | 221/233 | 193/207 |
| V. champinii3 | 112/117 | 128/128 | 189/189 | 240/256 | 146/148 | 86/93 | 262/280 | 96/96 | 350/350 | NA/NA | 76/88 | NA/NA | 235/253 | 237/249 | 189/211 |
| V. flexousa | 115/124 | 108/116 | 189/203 | 248/248 | 143/152 | 86/98 | 282/284 | 79/87 | 358/360 | NA/NA | 78/93 | 101/103 | 245/250 | 250/257 | 183/187 |
| V. lanata | 113/115 | 108/116 | 189/201 | 238/242 | 143/152 | 84/86 | 269/290 | NA/NA | 332/360 | 186/186 | 78/93 | NA/NA | 243/245 | 241/257 | 183/185 |
| V. longii | 113/114 | 110/118 | 187/187 | 256/262 | 141/143 | 88/95 | 282/282 | 81/87 | 360/360 | 180/180 | 82/114 | 101/101 | NA/NA | 229/244 | 177/204 |
| V. parviflora | 113/120 | 116/126 | 179/203 | 249/256 | 141/143 | 83/104 | 269/288 | 77/92 | 345/360 | 194/194 | 91/93 | 101/101 | 249/249 | 251/267 | 177/181 |
| Vermentino W | 112/112 | 116/116 | 199/203 | 250/260 | 137/143 | 95/104 | 282/282 | 79/87 | 341/360 | 176/184 | 76/78 | 101/103 | 251/251 | 244/251 | 177/179 |
| Viognier W | NA/NA | 116/132 | 187/199 | 252/252 | 143/143 | NA/NA | 282/282 | 79/83 | 358/360 | 184/194 | 76/76 | NA/NA | NA/NA | NA/NA | 183/189 |
| Waltham Cross | 113/113 | 116/122 | 195/203 | 244/250 | 143/145 | 84/95 | 280/284 | 77/87 | 358/360 | 186/190 | 78/99 | NA/NA | 239/253 | 251/267 | 177/181 |
| White Seeded | 113/114 | 116/116 | 193/195 | 248/248 | 143/148 | 84/84 | 274/286 | NA/NA | 339/360 | NA/NA | 78/78 | NA/NA | 249/251 | 250/250 | 177/177 |
| Yugo1 | 113/124 | 116/116 | 193/195 | 240/240 | 143/143 | 100/100 | 284/287 | 87/87 | 360/360 | 180/188 | 78/99 | 103/103 | 235/245 | NA/NA | 183/192 |

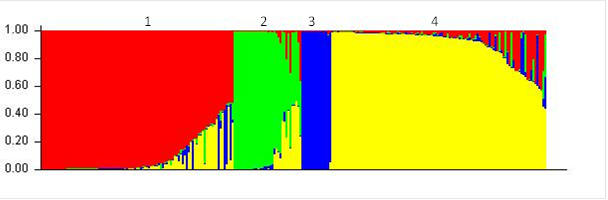
**Table S3** Properties of clusters based on structure analysis

|  |  |  |
| --- | --- | --- |
| **Cluster** | **Mean value of Fst** | **Average distance between individuals** |
| 1 | 0.261 | 0.653 |
| 2 | 0.083 | 0.846 |
| 3 | 0.617 | 0.428 |
| 4 | 0.088 | 0.767 |

**Figure S1** Estimation of number of clusters using (A) Ln P(D) vs. K value graph and (B) delta K method



**Figure S2 Clustering of 254 unique genotypes based on STRUCTURE analysis**



**Figure S3** Distribution of core accessions among different clusters of Neighbour joining tree constructed using DARWIN software



**Figure S4** Graphical user interphase of program menu

