**Online resource 1.** SSR profiles (allele sizes expressed in base pairs) of 62 analysed plum accessions (42 traditional accessions from Croatia, 6 traditional, regional cultivars from the neighbouring countries along with 14 international reference cultivars), investigated using 9 SSR markers.

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| --- | --- | --- | --- | --- | --- |
|  | **Pac A 49** | **Pac A 18** | **BPPCT 39** | **UDP 96 005** | **Pac B 35** |
| **Accession****number** | **Traditional Croatian accession** |  |  |  |
| S1 | 97:99:101:105 | 149:151:163:169:171 | 127:129:131:143:161 | 104:106:154 | 209:217:235:237 |
| S2 | 97:99:101:106:112 | 163:171:173:178 | 127:139:143 | 96:104:112:154 | 209:217:233 |
| S3 | 99:101:112 | 163:167:181 | 131:135:146:178 | 104:114:124:154 | 209:217:220:228:233 |
| S4 | 97:99:101:110:112 | 163:167:171:173:181 | 127:152:159:178:180 | 104:106:112:116:165 | 220:223:229:233 |
| S5 | 97:99:101:105 | 141:143:149:151:160:169 | 127:129:131:143:161 | 104:106:154 | 209:217:235:237 |
| S6 | 97:99:101:105 | 149:151:163:169:171 | 127:129:131:143:159 | 104:106:154 | 209:217:235:237 |
| S7 | 95:97:101:105 | 139:141:149:151:163:169 | 127:129:131:143:159 | 104:106:154 | 209:217:235:237 |
| S8 | 97:99:101:109:110 | 151:163:167:183:194 | 127:150:154:159:164:172 | 104:116:152:165 | 220:228:231 |
| S10 | 99:106:112 | 149:167:171:181 | 127:133:152:154:164:172 | 106:112:114:136 | 209:220:228:233:235 |
| S12 | 97:99:101:105 | 149:151:163:169:171 | 127:131:143:159 | 104:106:154 | 209:217:235:237 |
| S13 | 99:101:103:112 | 149:163:167:171:181 | 127:131:135:162:178 | 104:106:112 | 217:220:229:231:233 |
| S14 | 99:101:107:110:112 | 149:163:167:171:181 | 127:131:135:162:178 | 104:106:112 | 217:220:229:231:233 |
| S17 | 99:101:110:112 | 149:163:167:171:181 | 129:131:135:162:178 | 104:106:112 | 217:220:229:231:233 |
| S19 | 97:99:101:110:112 | 167:169:171:173:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S20 | 97:99:101:110:112 | 167:169:171:175:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S21 | 97:99:101:110:112 | 167:169:171:173:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S22 | 97:99:110:112 | 163:169:173:181 | 127:129:141:150:154:164 | 104:112:114:154 | 209:217 |
| S23 | 97:99:101:110:112 | 167:169:171:181 | 127:129:135:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S24 | 97:99:101:110:112 | 167:169:171:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S25 | 97:99:101:110:112 | 167:169:171:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S26 | 97:99:112 | 167:169:171:173:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S27 | 97:99:112 | 163:171:173:181 | 129141150154164174 | 104:112:114:154 | 209:217 |
| S28 | 97:99:112 | 163:171:173:181 | 129:141:150:154:164:174 | 104:112:114:154 | 209:217 |
| S29 | 97:99:101:110:112 | 167:169:171:173:181 | 127:129:135:139:143:152 | 96:104:112:114:132:154 | 209:217:219 |
| S30 | 97:99:101:109:110 | 153:163:167:181:194 | 127:150:154:164:172 | 104:116:152:159 | 220:228:231:235 |
| S31 | 97:101:112 | 167:169:171:181 | 127:129:135:139:143:152 | 96:104:112:116:132:154 | 209:217:219 |
| S32 | 97:99:112 | 151:163:167:178 | 127:129:141:150:154:164 | 104:112:114:154 | 209:217 |
| S33 | 97:99:112 | 151:163:167:178 | 127:129:141:150:154:164 | 104:112:114:154 | 209:217 |
| S34 | 0 | 151:169:171:173 | 127:129:135:141:148:159 | 112:124:132:149:154 | 209:217:228:231 |
| S35 | 97:99:103:110:112 | 149:163:167:169 | 127:143:150:156:178 | 104:106:126 | 209:217:228:231 |
| S36 | 97:99:101:109:110 | 151:163:167:181:196 | 127:150:154:164:172 | 104:116:152:159 | 220:228:231 |
| S37 | 97:99:101:109:110 | 151:163:167:181 | 127:150:154:162:164:172 | 104:116:152:159 | 220:228:231 |
| S39 | 97:99:110:112 | 163:171:173:181 | 127:129:141:150:154:164 | 104:112:114:154 | 209:217 |
| S40 | 97:99:101:109:110 | 151:163:167:181:183:194 | 131:133:136:143:156:176 | 104:106:124:152 | 217:233 |
| S41 | 97:99:101:109:110 | 151:163:167:178 | 127:150:154:161:164:172 | 104:116:152:161 | 220:228:231 |
| S42 | 97:99:101:109:110 | 151:163:167:178 | 127:150:154:161:164:172 | 104:116:152:161 | 220:228:231 |
| S44 | 97:99:101:109:110 | 151:163:167:178:181 | 127:150:154:159:164:172 | 104:116:149:152:159 | 220:228:233 |
| S45 | 97:99:110 | 151:163:167:176:178 | 127:150:154:159:164:172 | 104:116:152:159 | 220:228:231 |
| S46 | 97:99:110 | 151:163:167:176:178 | 127:150:154:159:164:172 | 104:116:152:159 | 220:228:231 |
| S72 | 97:99:107:110:112 | 165:167:171:181 | 127:152:166:178:187 | 102:104:151 | 217:228:229:233 |
| S75 | 97:99:101:109:110 | 163:165:167:169:181 | 127:143:159:176 | 102:106:124:126 | 217:228:235 |
| S78 | 97:99:103:107:110:112 | 149:167:171:181 | 127:150:152:164:178 | 102:106:112:154 | 209:228:229:231:233 |
|  | **Regional cultivars** |  |  |  |  |
| S64 | 97:99:103:107:110:112 | 149:167:171:181 | 127:150:152:164:178 | 102:106:112:154 | 209:228:229:231:233 |
| S66 | 97:99:101:109:110 | 163:165:167:169:171 | 127:143:159:162:176 | 102:106:124:126 | 217:228:235 |
| S69 | 97:99:101:110:112 | 163:167:169:188 | 129:135:154:159:164:172 | 102:112:126:147 | 209:217:220:229 |
| S79 | 97:99:101:109:110 | 163:165:167:169:181 | 127:143:159:162:176 | 102:106:124:126 | 217:228:235 |
| S101 | 97:99:103:107:110:112 | 149:167:171:184 | 127:150:152:164:178 | 102:106:112:154 | 209:228:229:231:235 |
| S102 | 97:99:103:107:110:112 | 149:167:171:181 | 127:150:152:164:178 | 102:106:112:154 | 209:228:229:231:233 |
|  | **International reference cultivars** |  |  |  |
| REF1 | 97:99:101:110:112 | 165:171:178:186 | 127:139:146:154:164:172 | 106:112:114 | 216:217:220:225:233:235 |
| REF2 | 99:107:112 | 171:173:176:181 | 127:133:152:154:164:172 | 106:112:114:136 | 209:220:228:233:235 |
| REF3 | 97:99:101:103:112 | 167:169:178:188 | 127:150:152 | 104:124:136 | 209:216:228:233:235:237 |
| REF4 | 97:101:103:112 | 167:169:171:178 | 127:131:133:136:150:156 | 102:106:124:152 | 0 |
| REF5 | 99:103:110:112 | 165:167:171:181 | 127:139:150:164:178 | 102:106:112:114:136:165 | 220:223:228:233:235 |
| REF6 | 99:103:112 | 149:169:171:183:188 | 125:127:146:150:162:178 | 106:112:114:136:154 | 209:217:220:233 |
| REF7 | 97:99:101:103:110:112 | 151:169:171:181 | 131:133:135:143:156:176 | 102:106:124:152 | 217:233 |
| REF8 | 97:99:103:112 | 151:167:171:173:176:181 | 127:133:136:141:154:164 | 104:106:112:114:136 | 220:223:225:231:233:235 |
| REF9 | 97:101 | 143:151:171:173:176:181 | 127:136:139:164:178 | 112:114:149:165 | 217:220:225:229:233:235 |
| REF10 | 97:99:101 | 169:171:181:186 | 127:133:136:143:154 | 102:106:114:124 | 217:223:225:233 |
| REF11 | 97:99:101 | 169:178:186 | 127:146:159 | 106:112:114 | 216:217:220:225:233 |
| REF12 | 99:103 | 167:169:171:178 | 127:152:159:178 | 102:106:112:116:165 | 220:223:229:233 |
| REF13 | 99:101:112 | 151:163:167:171:173:186 | 127:139:146:159 | 102:104:112:114 | 217:220:223:233 |
| REF14 | 99:101:103:112 | 143:151:164:167:171:181 | 127:129:136:139:143:178 | 102:106 | 217:233:235 |
|  |  |  |  |  |  |
|  | **BPPCT 34** | **BPPCT 40** | **Pac A 33** | **Pac B 22** |  |
|  | **Traditional Croatian accession** |  |  |  |
| S1 | 214:222:231:235:244:257 | 123:129:132:135:149:151 | 173:175:181:185:203:210 | 150:155:161:174:181:185 |  |
| S2 | 214:216:242:251 | 132:135:137:149:156 | 181:185:191:201 | 153:159:174:178:180 |  |
| S3 | 214:225:235:246 | 132:137:145:149:153 | 177:181:185:191:210:213 | 150:164:181:185 |  |
| S4 | 214:218:222:237:241 | 127:129:132:149 | 175:185:201:203 | 150:153:155:164:176:181 |  |
| S5 | 214:222:231:235:244:257 | 123:129:132:135:151 | 173:175:181:185:203:210 | 150:155:161:174:181:185 |  |
| S6 | 214:222:231:235:244:257 | 123:129:132:135:153 | 173:175:181:185:203:210 | 150:155:161:174:181:185 |  |
| S7 | 214:222:231:235:244:257 | 123:129:132:135:137:151 | 173:175:181:185:203:210 | 150:155:161:174:181:185 |  |
| S8 | 218:227:235:239:248 | 129:132:135:137:141 | 175:181:187:191:203:213 | 150:152:164:166:176:181 |  |
| S10 | 0 | 127:132:147:149 | 173:189:191:203 | 150:164:181:183:191 |  |
| S12 | 214:222:231:235:244:257 | 123:129:132:135:151 | 173:175:181:185 | 150:155:161:174:181:185 |  |
| S13 | 214:246:253 | 129:132:145 | 173:181:185:187 | 150:164:166:170:172 |  |
| S14 | 0 | 129:132:145 | 173:181:185:187 | 150:164:166:170:172 |  |
| S17 | 214:246:253 | 129:132:145 | 173:181:185:187 | 150:164:166:170:172 |  |
| S19 | 214:225:237 | 127:132:135:147:151 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S20 | 214:225:229:237 | 127:132:135:149 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S21 | 214:225:237 | 127:132:135:147:151 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S22 | 214:225:235:244 | 132:135:137:149:153 | 173:185 | 153:159:174:178:181 |  |
| S23 | 214:225:237 | 127:132:135:149 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S24 | 214:225:237 | 127:132:135:149 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S25 | 214:225:237 | 127:132:135:149 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S26 | 214:225:237 | 127:132:135:149 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S27 | 214:225:235:244:257 | 132:135:137:149:151 | 173:185 | 153:159:174:178:181 |  |
| S28 | 214:225:235:244:257 | 132:135:137:149:151 | 173:185 | 153:159:174:178:181 |  |
| S29 | 214:225:237 | 127:132:135:147:151 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S30 | 0 | 129:135:141 | 175:181:187:191:203 | 150:153:164:166:176 |  |
| S31 | 214:225:237 | 127:132:135:150 | 173:177:181:185:189 | 153:159:164:181:185 |  |
| S32 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191 | 150:152:164:166:176:183 |  |
| S33 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191 | 150:152:164:166:176:183 |  |
| S34 | 229:235:244:251:257 | 127:135:149:155 | 173:175 | 150:155:159:164:174:181 |  |
| S35 | 0 | 125:129:132:153 | 173:183:185:189:191 | 155:166:168:172:181 |  |
| S36 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191:203 | 150:153:164:166:176:183 |  |
| S37 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191:203 | 150:153:164:166:176:183 |  |
| S39 | 214:225:237:244 | 132:135:137:149:153 | 173:185 | 153:159:174:178:181 |  |
| S40 | 214:225:229:235:241 | 129:135:141 | 0 | 150:153:164:166:176:181 |  |
| S41 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191 | 150:152:164:166:176:183 |  |
| S42 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191 | 150:152:164:166:176:183 |  |
| S44 | 218:227:235:239:248 | 129:135:141 | 175:181:187:191 | 150:153:164:166:176:183 |  |
| S45 | 218:227:235:239:248 | 129:132:135:141 | 175:181:187:191:203:213 | 150:153:164:166:176:181 |  |
| S46 | 218:227:235:239:248 | 129:132:135:141 | 175:181:187:191:203:213 | 150:153:164:166:176:181 |  |
| S72 | 214:222:237:239 | 127:129:147:153 | 173:175:179:191 | 153:170:178:181:183 |  |
| S75 | 231:235:244 | 127:129:132:147 | 173:175:183:191:201 | 150:164:166:172:181 |  |
| S78 | 214:241:251 | 125:129:132:147 | 173:189:191:203 | 155:166:170:172:178:181 |  |
|  | **Regional cultivars** |  |  |  |  |
| S64 | 214:241:251 | 125:129:132:147 | 173:189:191:203 | 155:166:170:172:178:181 |  |
| S66 | 231:235:244:246 | 127:129:132:147 | 173:175:183:191:201:205 | 150:164:166:172:181 |  |
| S69 | 214:235:244:258 | 127:129:132:135:137 | 173:185:187:189 | 150:159:164:166:181 |  |
| S79 | 231:235:244 | 127:129:135:147 | 173:175:183:191 | 150:164:166:172:181 |  |
| S102 | 214:241:251 | 125:129:132:147 | 173:189:191:203 | 155:166:170:172:178:181 |  |
| S101 | 214:241:251 | 125:129:132:147 | 173:189:191:203 | 155:166:170:172:178:181 |  |
|  | **International reference cultivars** |  |  |  |
| REF1 | 214:222:227:235:244:257 | 127:129:132:147:153 | 175:185:189:191:193 | 150:159:170:191 |  |
| REF2 | 214:235 | 127:132:147:149 | 183:191:203 | 150:166:181:183:191 |  |
| REF3 | 222:235:246:251:259 | 125:129:132 | 173:183:185:191:205:210 | 150:159:166:170:181 |  |
| REF4 | 225:235:241:251:257 | 123:127:129:132:147 | 175:185:191:193:205 | 146:150:166:170 |  |
| REF5 | 214:222:237 | 127:129:135:147:149:153 | 177:185:189:191:193:201 | 150:159:170:181:183 |  |
| REF6 | 214:227:235:246 | 129:132:135:147 | 175:185:187:191 | 150:166:170:181 |  |
| REF7 | 214:225:229:237:241 | 123:127:132:135:147 | 175:177:185:191:193 | 146:150:168:170 |  |
| REF8 | 214:222:235 | 127:129:132:145:147 | 183:191:193:201 | 150:170:183:191 |  |
| REF9 | 214:235 | 125:127:129:145:153 | 173:185:201 | 150:155:181:183 |  |
| REF10 | 227:235:239:257 | 127:129:132:135:147 | 175:177:193:201 | 150:168:170 |  |
| REF11 | 214:222:235:239 | 129:132:147 | 175:185 | 150:159:170:191 |  |
| REF12 | 222:235:237:239:251 | 129:132:145:147 | 175:185:201:203 | 150:155:166:170:181 |  |
| REF13 | 222:227:229:239:241:257 | 127:129:132:145 | 177:185:191:201:205 | 150:168:170 |  |
| REF14 | 229:241:257 | 127:132:134:145:147 | 175:183:189 | 146:150:168:170 |  |

**Online resource 2.** Sizes of 52 private alleles registered exclusively among traditional Croatian plum accessions and eight private alleles found only among international reference cultivars

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| --- | --- | --- |
| Locus code | Croatian accessions | International reference cultivar |
| Pac A 49 | 95/105/106/109 |   |
| Pac A 18 | 139/143/153/160/175/184/194/196 | 164/186 |
| BPPCT 39 | 148/161/166/174/180/187 | 125 |
| UDP 96 005 | 96/126/132/147/151/159/161 |   |
| Pac B 35 | 219 | 216/225 |
| BPPCT 34 | 216/218/231/242/248/253/258 | 259 |
| BPPCT 40 | 137/141/150/151/155/156 | 134 |
| Pac A 33 | 179/181/213 | 193 |
| Pac B 22 | 152/153/161/164/172/174/176/178/180/185 |   |