

Supplemental Table S2. The WRKY transcription factor family members in plants.

The data were downloaded from Ensembl Plants (<http://plants.ensembl.org/info/website/ftp/index.html>), PhytozomeV9 (<http://genome.jgi.doe.gov/pages/dynamicOrganismDownload.jsf?organism=PhytozomeV9>) and NCBI (<https://www.ncbi.nlm.nih.gov/protein/>).

| Lineages | Transcript ID | Alignment | | Envelope | | Hmm name | Hmm | | Hmm length | Bit score | E-value | Number of WRKY Domains |
|----------|---|-----------|-----|----------|-----|----------|-------|-----|------------|-----------|----------|------------------------|
| | | Start | End | Start | End | | Start | End | | | | |
| Monocots | <i>Brachypodium distachyon</i> (86 WRKYs) | | | | | | | | | | | |
| | BRADI1G02327.1 | 119 | 174 | 118 | 174 | WRKY | 2 | 60 | 59 | 85.6 | 1.9E-24 | 2 |
| | | 276 | 330 | 276 | 331 | WRKY | 1 | 59 | 59 | 80.5 | 7.8E-23 | |
| | BRADI1G07970.1 | 191 | 247 | 191 | 247 | WRKY | 1 | 60 | 60 | 76.5 | 1.3E-21 | 2 |
| | | 324 | 381 | 324 | 381 | WRKY | 1 | 60 | 60 | 83.1 | 1.2E-23 | |
| | BRADI1G08106.1 | 130 | 187 | 130 | 187 | WRKY | 1 | 60 | 60 | 90.9 | 4.3E-26 | 1 |
| | BRADI1G08106.2 | 130 | 187 | 130 | 187 | WRKY | 1 | 60 | 60 | 90.9 | 4.3E-26 | 1 |
| | BRADI1G09170.1 | 357 | 413 | 356 | 414 | WRKY | 2 | 59 | 58 | 91.8 | 2.2E-26 | 1 |
| | BRADI1G13207.1 | 42 | 97 | 42 | 98 | WRKY | 1 | 59 | 59 | 73.5 | 1.1E-20 | 1 |
| | BRADI1G14300.1 | 276 | 332 | 275 | 333 | WRKY | 2 | 59 | 58 | 94.9 | 2.5E-27 | 1 |
| | BRADI1G14300.2 | 276 | 332 | 275 | 333 | WRKY | 2 | 59 | 58 | 94.9 | 2.5E-27 | 1 |
| | BRADI1G14300.3 | 275 | 331 | 274 | 332 | WRKY | 2 | 59 | 58 | 94.9 | 2.5E-27 | 1 |
| | BRADI1G16120.1 | 206 | 262 | 206 | 262 | WRKY | 1 | 60 | 60 | 82.8 | 1.5E-23 | 2 |
| | | 375 | 432 | 375 | 432 | WRKY | 1 | 60 | 60 | 83.7 | 7.4E-24 | |
| | BRADI1G17660.1 | 128 | 188 | 128 | 188 | WRKY | 1 | 60 | 62 | 82.1 | 2.3E-23 | 1 |
| | BRADI1G22680.1 | 177 | 231 | 177 | 232 | WRKY | 1 | 59 | 59 | 80.4 | 8.3E-23 | 2 |
| | | 342 | 398 | 342 | 399 | WRKY | 1 | 59 | 59 | 84.4 | 4.8E-24 | |
| | BRADI1G23340.1 | 227 | 283 | 227 | 283 | WRKY | 1 | 60 | 60 | 86.3 | 1.2E-24 | 2 |
| | | 401 | 458 | 401 | 458 | WRKY | 1 | 60 | 60 | 91.9 | 2.1E-26 | |
| | BRADI1G23340.2 | 151 | 207 | 151 | 207 | WRKY | 1 | 60 | 60 | 86.5 | 9.9E-25 | 2 |
| | | 325 | 382 | 325 | 382 | WRKY | 1 | 60 | 60 | 92.2 | 1.7E-26 | |
| | BRADI1G30870.1 | 186 | 243 | 186 | 244 | WRKY | 1 | 59 | 59 | 86 | 1.5E-24 | 1 |
| | BRADI1G47690.1 | 119 | 174 | 118 | 174 | WRKY | 2 | 60 | 59 | 85.9 | 1.5E-24 | 2 |
| | | 273 | 293 | 273 | 294 | WRKY | 1 | 21 | 21 | 23.4 | 0.000053 | |
| | BRADI1G48770.1 | 113 | 173 | 113 | 173 | WRKY | 1 | 60 | 62 | 90.8 | 4.5E-26 | 1 |
| | BRADI1G51030.1 | 268 | 343 | 268 | 343 | WRKY | 1 | 60 | 77 | 78.9 | 2.3E-22 | 1 |
| | BRADI1G59180.1 | 123 | 180 | 123 | 180 | WRKY | 1 | 60 | 60 | 90.7 | 4.9E-26 | 1 |
| | BRADI1G63220.1 | 114 | 172 | 113 | 173 | WRKY | 2 | 59 | 60 | 86.9 | 7.5E-25 | 1 |
| | BRADI1G63910.1 | 33 | 93 | 33 | 94 | WRKY | 1 | 59 | 61 | 84.7 | 3.7E-24 | 1 |
| | BRADI1G63910.2 | 11 | 71 | 11 | 72 | WRKY | 1 | 59 | 61 | 85 | 3E-24 | 1 |
| | BRADI2G00280.1 | 141 | 198 | 141 | 198 | WRKY | 1 | 60 | 60 | 84.9 | 3.2E-24 | 2 |
| | | 281 | 338 | 281 | 338 | WRKY | 1 | 60 | 60 | 88.5 | 2.4E-25 | |
| | BRADI2G05234.1 | 150 | 206 | 150 | 207 | WRKY | 1 | 59 | 59 | 85.6 | 1.9E-24 | 1 |
| | BRADI2G05500.1 | 262 | 320 | 262 | 320 | WRKY | 1 | 60 | 60 | 91.3 | 3.1E-26 | 1 |
| | BRADI2G05510.1 | 149 | 206 | 149 | 206 | WRKY | 1 | 60 | 60 | 80.4 | 8.4E-23 | 1 |
| | BRADI2G08620.1 | 363 | 420 | 362 | 420 | WRKY | 2 | 60 | 59 | 93.2 | 8.4E-27 | 1 |
| | BRADI2G11170.1 | 231 | 288 | 230 | 288 | WRKY | 2 | 60 | 59 | 91.7 | 2.4E-26 | 1 |
| | BRADI2G15360.1 | 161 | 218 | 161 | 218 | WRKY | 1 | 60 | 60 | 90.8 | 4.7E-26 | 1 |
| | BRADI2G15405.1 | 167 | 224 | 167 | 225 | WRKY | 1 | 59 | 59 | 78.5 | 3.2E-22 | 1 |
| | BRADI2G15877.1 | 98 | 157 | 98 | 158 | WRKY | 1 | 59 | 61 | 89.1 | 1.6E-25 | 1 |
| | BRADI2G16150.1 | 326 | 383 | 325 | 383 | WRKY | 2 | 60 | 59 | 93 | 9.6E-27 | 1 |

| | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|------|----|----|----|------|---------|---|
| BRADI2G16357.1 | 208 | 265 | 208 | 265 | WRKY | 1 | 60 | 60 | 92 | 2E-26 | 1 |
| BRADI2G18530.1 | 157 | 213 | 157 | 214 | WRKY | 1 | 59 | 59 | 86 | 1.4E-24 | 1 |
| BRADI2G19070.1 | 160 | 217 | 160 | 217 | WRKY | 1 | 60 | 60 | 90.5 | 5.9E-26 | 1 |
| BRADI2G22230.1 | 138 | 199 | 138 | 199 | WRKY | 1 | 60 | 62 | 76.5 | 1.3E-21 | 1 |
| BRADI2G22440.1 | 184 | 240 | 184 | 240 | WRKY | 1 | 60 | 60 | 86.9 | 7.5E-25 | 2 |
| | 347 | 404 | 347 | 404 | WRKY | 1 | 60 | 60 | 90.1 | 7.8E-26 | |
| BRADI2G30695.1 | 108 | 171 | 108 | 171 | WRKY | 1 | 60 | 64 | 74.2 | 6.9E-21 | 1 |
| BRADI2G30800.1 | 158 | 217 | 158 | 218 | WRKY | 1 | 59 | 61 | 85.6 | 2E-24 | 1 |
| BRADI2G33540.1 | 95 | 151 | 95 | 152 | WRKY | 1 | 59 | 59 | 83.6 | 8.2E-24 | 1 |
| BRADI2G44035.1 | 181 | 238 | 180 | 238 | WRKY | 2 | 60 | 59 | 78.9 | 2.4E-22 | 1 |
| BRADI2G44090.1 | 196 | 253 | 196 | 253 | WRKY | 1 | 60 | 60 | 88.8 | 2E-25 | 1 |
| BRADI2G44270.1 | 101 | 161 | 101 | 161 | WRKY | 1 | 60 | 62 | 79.4 | 1.7E-22 | 1 |
| BRADI2G45480.1 | 136 | 195 | 136 | 196 | WRKY | 1 | 59 | 61 | 83.7 | 7.6E-24 | 1 |
| BRADI2G45900.1 | 184 | 241 | 184 | 241 | WRKY | 1 | 60 | 60 | 89.9 | 9.1E-26 | 1 |
| BRADI2G48090.1 | 132 | 188 | 132 | 189 | WRKY | 1 | 59 | 59 | 82.3 | 2.1E-23 | 2 |
| | 65 | 121 | 64 | 122 | WRKY | 2 | 59 | 58 | 90.8 | 4.5E-26 | |
| BRADI2G48907.1 | 65 | 121 | 64 | 122 | WRKY | 2 | 59 | 58 | 90.8 | 4.5E-26 | 1 |
| BRADI2G49020.1 | 144 | 201 | 144 | 201 | WRKY | 1 | 60 | 60 | 90.6 | 5.5E-26 | 1 |
| BRADI2G49906.1 | 86 | 143 | 85 | 143 | WRKY | 2 | 60 | 59 | 90.3 | 6.8E-26 | 1 |
| BRADI2G53480.1 | 52 | 72 | 51 | 73 | WRKY | 2 | 22 | 21 | 30.9 | 2.4E-07 | 1 |
| BRADI2G53495.1 | 68 | 127 | 67 | 128 | WRKY | 2 | 59 | 60 | 78.8 | 2.6E-22 | 1 |
| BRADI2G53500.1 | 124 | 187 | 124 | 187 | WRKY | 1 | 60 | 64 | 74.5 | 5.5E-21 | 1 |
| BRADI2G53510.1 | 42 | 106 | 41 | 106 | WRKY | 2 | 60 | 65 | 75.5 | 2.7E-21 | 1 |
| BRADI2G53520.1 | 111 | 169 | 111 | 170 | WRKY | 1 | 59 | 60 | 81.5 | 3.8E-23 | 1 |
| BRADI2G53760.1 | 229 | 284 | 229 | 285 | WRKY | 1 | 59 | 59 | 84.7 | 3.6E-24 | 2 |
| | 398 | 455 | 398 | 455 | WRKY | 1 | 60 | 60 | 89 | 1.7E-25 | |
| BRADI2G54720.1 | 111 | 147 | 104 | 148 | WRKY | 21 | 59 | 39 | 41.7 | 9.6E-11 | 1 |
| BRADI2G62130.1 | 141 | 162 | 141 | 163 | WRKY | 1 | 22 | 22 | 30.9 | 2.4E-07 | 1 |
| BRADI3G06070.1 | 186 | 243 | 186 | 244 | WRKY | 1 | 59 | 59 | 86.1 | 1.3E-24 | 1 |
| BRADI3G09810.1 | 169 | 225 | 168 | 226 | WRKY | 2 | 59 | 58 | 87.1 | 6.6E-25 | 1 |
| BRADI3G18580.1 | 240 | 296 | 239 | 297 | WRKY | 2 | 59 | 58 | 90.3 | 6.5E-26 | 1 |
| BRADI3G19640.1 | 259 | 313 | 258 | 314 | WRKY | 2 | 59 | 58 | 76.5 | 1.4E-21 | 2 |
| | 430 | 486 | 429 | 486 | WRKY | 2 | 60 | 59 | 89.4 | 1.3E-25 | |
| BRADI3G34567.1 | 183 | 240 | 182 | 240 | WRKY | 2 | 60 | 59 | 90.4 | 6.4E-26 | 1 |
| BRADI3G34850.1 | 119 | 179 | 119 | 179 | WRKY | 1 | 60 | 62 | 93.2 | 8.2E-27 | 1 |
| BRADI3G39340.1 | 256 | 312 | 256 | 312 | WRKY | 1 | 60 | 60 | 87.5 | 4.9E-25 | 2 |
| | 373 | 429 | 373 | 430 | WRKY | 1 | 59 | 59 | 91.2 | 3.6E-26 | |
| BRADI3G50360.1 | 156 | 212 | 156 | 213 | WRKY | 1 | 59 | 59 | 85.8 | 1.7E-24 | 1 |
| BRADI3G52420.1 | 227 | 284 | 226 | 284 | WRKY | 2 | 60 | 59 | 89.2 | 1.4E-25 | 1 |
| BRADI3G57710.1 | 331 | 389 | 331 | 389 | WRKY | 1 | 60 | 60 | 94.9 | 2.5E-27 | 1 |
| BRADI4G01950.1 | 160 | 217 | 160 | 217 | WRKY | 1 | 60 | 60 | 86.3 | 1.2E-24 | 2 |
| | 316 | 373 | 316 | 373 | WRKY | 1 | 60 | 60 | 91 | 4E-26 | |
| BRADI4G02680.1 | 287 | 343 | 286 | 344 | WRKY | 2 | 59 | 58 | 92 | 1.9E-26 | 1 |
| BRADI4G06690.1 | 230 | 286 | 230 | 286 | WRKY | 1 | 60 | 60 | 85.1 | 2.8E-24 | 1 |
| BRADI4G09890.1 | 837 | 893 | 837 | 893 | WRKY | 1 | 60 | 60 | 76.4 | 1.5E-21 | 1 |
| BRADI4G19060.1 | 117 | 174 | 117 | 174 | WRKY | 1 | 60 | 61 | 94.5 | 3.2E-27 | 1 |
| BRADI4G25717.1 | 51 | 111 | 51 | 112 | WRKY | 1 | 59 | 61 | 87.3 | 5.7E-25 | 1 |
| BRADI4G30360.1 | 180 | 238 | 180 | 238 | WRKY | 1 | 60 | 60 | 84.2 | 5.4E-24 | 1 |
| BRADI4G30370.1 | 102 | 142 | 102 | 153 | WRKY | 1 | 41 | 41 | 56.3 | 2.8E-15 | 1 |

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|---|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| BRADI4G33370.1 | 286 | 342 | 286 | 342 | WRKY | 1 | 60 | 60 | 80.1 | 1E-22 | 2 |
| | 505 | 562 | 505 | 562 | WRKY | 1 | 60 | 60 | 88.3 | 2.8E-25 | |
| BRADI4G44342.1 | 123 | 192 | 122 | 192 | WRKY | 2 | 60 | 70 | 77.4 | 7E-22 | 1 |
| BRADI4G44350.1 | 131 | 197 | 130 | 198 | WRKY | 2 | 59 | 67 | 77.5 | 6.5E-22 | 1 |
| BRADI4G44360.1 | 122 | 188 | 121 | 189 | WRKY | 2 | 59 | 67 | 79.8 | 1.2E-22 | 1 |
| BRADI4G44370.1 | 111 | 179 | 110 | 179 | WRKY | 2 | 60 | 69 | 85.3 | 2.5E-24 | 1 |
| BRADI4G45290.1 | 118 | 173 | 117 | 173 | WRKY | 2 | 60 | 59 | 85.7 | 1.9E-24 | 2 |
| | 275 | 329 | 275 | 330 | WRKY | 1 | 59 | 59 | 80.5 | 7.8E-23 | |
| BRADI5G04817.1 | 237 | 293 | 236 | 294 | WRKY | 2 | 59 | 58 | 88.6 | 2.3E-25 | 1 |
| BRADI5G13090.1 | 289 | 345 | 289 | 345 | WRKY | 1 | 60 | 60 | 82.6 | 1.7E-23 | 2 |
| | 523 | 580 | 523 | 580 | WRKY | 1 | 60 | 60 | 88.2 | 3E-25 | |
| BRADI5G17395.1 | 118 | 174 | 118 | 175 | WRKY | 1 | 59 | 59 | 88.2 | 2.9E-25 | 1 |
| BRADI5G20290.1 | 140 | 197 | 139 | 197 | WRKY | 2 | 60 | 59 | 90.5 | 5.9E-26 | 1 |
| BRADI5G20700.1 | 224 | 280 | 223 | 281 | WRKY | 2 | 59 | 58 | 91.8 | 2.3E-26 | 1 |
| <i>Triticum aestivum</i> (171 WRKYs) | | | | | | | | | | | |
| Traes_1AL_0404BC790.1 | 57 | 114 | 57 | 114 | WRKY | 1 | 60 | 60 | 93.1 | 9.00E-27 | 1 |
| Traes_1AL_180B9CF01.1 | 63 | 120 | 63 | 120 | WRKY | 1 | 60 | 60 | 89.7 | 1.00E-25 | 1 |
| Traes_1AL_309623B48.1 | 136 | 197 | 136 | 197 | WRKY | 1 | 60 | 62 | 73.5 | 1.20E-20 | 1 |
| Traes_1AL_4E924201A.1 | 184 | 241 | 183 | 241 | WRKY | 2 | 60 | 59 | 90.4 | 6.10E-26 | 1 |
| Traes_1AL_9ADA7A031.1 | 133 | 189 | 133 | 190 | WRKY | 1 | 59 | 59 | 85.5 | 2.00E-24 | 1 |
| Traes_1AL_B24F28600.1 | 135 | 195 | 135 | 196 | WRKY | 1 | 59 | 61 | 77.2 | 8.00E-22 | 1 |
| Traes_1AL_F64E07A92.1 | 27 | 84 | 27 | 84 | WRKY | 1 | 60 | 60 | 91.1 | 3.60E-26 | 1 |
| Traes_1AS_1432A2F79.1 | 36 | 92 | 36 | 93 | WRKY | 1 | 59 | 59 | 85.9 | 1.50E-24 | 1 |
| Traes_1AS_F3EAEC435.1 | 179 | 236 | 179 | 236 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 2 |
| | 324 | 381 | 324 | 381 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| Traes_1BL_1D865A8CC.1 | 9 | 46 | 6 | 46 | WRKY | 21 | 60 | 40 | 48.7 | 6.40E-13 | 1 |
| Traes_1BL_46340D685.1 | 134 | 195 | 134 | 195 | WRKY | 1 | 60 | 62 | 73.5 | 1.20E-20 | 1 |
| Traes_1BL_73811B853.1 | 14 | 73 | 14 | 74 | WRKY | 1 | 59 | 61 | 89.5 | 1.20E-25 | 1 |
| Traes_1BL_794E99FF5.1 | 183 | 240 | 182 | 240 | WRKY | 2 | 60 | 59 | 90.4 | 6.10E-26 | 1 |
| Traes_1BL_9AFA4B870.1 | 108 | 167 | 108 | 167 | WRKY | 1 | 60 | 62 | 82.9 | 1.30E-23 | 1 |
| Traes_1BL_B15990028.1 | 39 | 96 | 39 | 96 | WRKY | 1 | 60 | 60 | 89.6 | 1.10E-25 | 1 |
| Traes_1BL_B4AFDB663.1 | 134 | 194 | 134 | 195 | WRKY | 1 | 59 | 61 | 79 | 2.30E-22 | 1 |
| Traes_1BS_EF67E5A24.1 | 186 | 243 | 186 | 243 | WRKY | 1 | 60 | 60 | 86.1 | 1.40E-24 | 2 |
| | 334 | 391 | 334 | 391 | WRKY | 1 | 60 | 60 | 88.1 | 3.30E-25 | |
| Traes_1DL_46428511F.1 | 43 | 100 | 43 | 100 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 |
| Traes_1DL_5BAB0B6BC.1 | 57 | 114 | 57 | 114 | WRKY | 1 | 60 | 60 | 93.1 | 9.00E-27 | 1 |
| Traes_1DL_D1EC7DEA6.1 | 66 | 111 | 66 | 112 | WRKY | 1 | 48 | 48 | 71.4 | 5.40E-20 | 1 |
| Traes_1DL_D550418641.2 | 11 | 67 | 11 | 68 | WRKY | 1 | 59 | 59 | 87.9 | 3.60E-25 | 1 |
| Traes_1DL_DFE1721E0.1 | 141 | 202 | 141 | 202 | WRKY | 1 | 60 | 62 | 72.9 | 1.80E-20 | 1 |
| Traes_1DS_A6733B734.1 | 184 | 241 | 184 | 241 | WRKY | 1 | 60 | 60 | 86 | 1.40E-24 | 2 |
| | 338 | 395 | 338 | 395 | WRKY | 1 | 60 | 60 | 88.5 | 2.50E-25 | |
| Traes_2AL_15A7BB684.1 | 236 | 292 | 235 | 293 | WRKY | 2 | 59 | 58 | 91.2 | 3.60E-26 | 1 |
| Traes_2AL_1B43EA59E.1 | 69 | 126 | 69 | 126 | WRKY | 1 | 60 | 60 | 91.5 | 2.90E-26 | 1 |
| Traes_2AL_409AB7647.1 | 294 | 350 | 294 | 350 | WRKY | 1 | 60 | 60 | 82.6 | 1.70E-23 | 2 |
| | 523 | 580 | 523 | 580 | WRKY | 1 | 60 | 60 | 88.2 | 3.00E-25 | |
| Traes_2AL_434E9F101.1 | 243 | 299 | 242 | 300 | WRKY | 2 | 59 | 58 | 91 | 4.10E-26 | 1 |
| Traes_2AL_B1270662B.1 | 152 | 208 | 152 | 209 | WRKY | 1 | 59 | 59 | 87.8 | 3.90E-25 | 1 |
| Traes_2AS_0186B9E4F.2 | 152 | 206 | 152 | 207 | WRKY | 1 | 59 | 59 | 75.6 | 2.60E-21 | 2 |
| | 316 | 373 | 316 | 373 | WRKY | 1 | 60 | 60 | 87.4 | 5.30E-25 | |

| | | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Traes_2AS_1AFFE8DA6.1 | 23 | 44 | 22 | 44 | WRKY | 2 | 23 | 22 | 32.9 | 5.40E-08 | 1 |
| Traes_2AS_6269D889E.1 | 120 | 180 | 120 | 180 | WRKY | 1 | 60 | 62 | 94.1 | 4.30E-27 | 1 |
| Traes_2AS_C407071E4.2 | 188 | 244 | 188 | 244 | WRKY | 1 | 60 | 60 | 84.5 | 4.20E-24 | 2 |
| | 362 | 419 | 362 | 419 | WRKY | 1 | 60 | 60 | 92 | 1.90E-26 | |
| Traes_2AS_D0C21ADB5.1 | 91 | 118 | 91 | 126 | WRKY | 1 | 28 | 28 | 38.4 | 1.10E-09 | 1 |
| Traes_2BL_2BA3A755A.1 | 299 | 355 | 299 | 355 | WRKY | 1 | 60 | 60 | 82.6 | 1.70E-23 | 2 |
| | 528 | 585 | 528 | 585 | WRKY | 1 | 60 | 60 | 88.2 | 3.00E-25 | |
| Traes_2BL_6B75B32E3.1 | 223 | 279 | 222 | 280 | WRKY | 2 | 59 | 58 | 91.3 | 3.30E-26 | 1 |
| Traes_2BL_A5BFA97B9.1 | 152 | 208 | 152 | 209 | WRKY | 1 | 59 | 59 | 87.8 | 3.90E-25 | 1 |
| Traes_2BL_A69F6C5DF.1 | 127 | 184 | 127 | 184 | WRKY | 1 | 60 | 60 | 90.4 | 6.10E-26 | 1 |
| Traes_2BS_380EC4D1E.1 | 199 | 253 | 199 | 254 | WRKY | 1 | 59 | 59 | 78 | 4.60E-22 | 2 |
| | 363 | 420 | 363 | 420 | WRKY | 1 | 60 | 60 | 87.2 | 6.10E-25 | |
| Traes_2BS_B65714572.1 | 119 | 179 | 119 | 179 | WRKY | 1 | 60 | 62 | 95.4 | 1.70E-27 | 1 |
| Traes_2BS_D435A8999.1 | 141 | 197 | 141 | 197 | WRKY | 1 | 60 | 60 | 84.7 | 3.80E-24 | 2 |
| | 314 | 371 | 314 | 371 | WRKY | 1 | 60 | 60 | 92.2 | 1.70E-26 | |
| Traes_2BS_F3097F116.1 | 112 | 169 | 112 | 169 | WRKY | 1 | 60 | 61 | 94.6 | 3.00E-27 | 1 |
| Traes_2DL_04535D371.1 | 127 | 184 | 127 | 184 | WRKY | 1 | 60 | 60 | 89.2 | 1.40E-25 | 1 |
| Traes_2DL_362A1F535.1 | 24 | 69 | 24 | 70 | WRKY | 1 | 45 | 47 | 55.4 | 5.10E-15 | 1 |
| Traes_2DL_4F9F8F1F0.1 | 152 | 208 | 152 | 209 | WRKY | 1 | 59 | 59 | 87.8 | 3.90E-25 | 1 |
| Traes_2DL_F600B5FDF.1 | 30 | 86 | 29 | 87 | WRKY | 2 | 59 | 58 | 93.9 | 4.90E-27 | 1 |
| Traes_2DS_0F2500A60.1 | 99 | 156 | 99 | 156 | WRKY | 1 | 60 | 61 | 94.8 | 2.70E-27 | 1 |
| Traes_2DS_97E3E7CFC.1 | 141 | 197 | 141 | 197 | WRKY | 1 | 60 | 60 | 84.7 | 3.80E-24 | 2 |
| | 315 | 372 | 315 | 372 | WRKY | 1 | 60 | 60 | 92.2 | 1.70E-26 | |
| Traes_2DS_AD8820C42.1 | 166 | 186 | 166 | 188 | WRKY | 1 | 21 | 21 | 27.1 | 3.50E-06 | 1 |
| Traes_2DS_F6FBC974C.2 | 189 | 243 | 189 | 244 | WRKY | 1 | 59 | 59 | 75.8 | 2.20E-21 | 2 |
| | 353 | 373 | 353 | 373 | WRKY | 1 | 21 | 21 | 28.9 | 1.00E-06 | |
| Traes_3AL_140B829CB.2 | 194 | 251 | 194 | 251 | WRKY | 1 | 60 | 60 | 88.8 | 2.00E-25 | 1 |
| Traes_3AL_1B73D2C12.1 | 13 | 51 | 9 | 52 | WRKY | 19 | 59 | 41 | 44.6 | 1.20E-11 | 1 |
| Traes_3AL_2297D6E18.1 | 68 | 127 | 67 | 128 | WRKY | 2 | 59 | 60 | 81.6 | 3.50E-23 | 1 |
| Traes_3AL_3160E1F30.1 | 2 | 57 | 1 | 58 | WRKY | 2 | 59 | 58 | 98.1 | 2.50E-28 | 1 |
| Traes_3AL_4769A72F1.1 | 1 | 38 | 1 | 38 | WRKY | 21 | 60 | 40 | 49.9 | 2.80E-13 | 1 |
| Traes_3AL_67ECA2932.1 | 18 | 39 | 18 | 45 | WRKY | 1 | 22 | 22 | 31.5 | 1.50E-07 | 1 |
| Traes_3AL_6E92D4E1F.1 | 9 | 68 | 9 | 69 | WRKY | 1 | 59 | 61 | 91.5 | 2.80E-26 | 1 |
| Traes_3AL_AB2BAE660.1 | 120 | 155 | 120 | 155 | WRKY | 1 | 37 | 37 | 53.6 | 1.90E-14 | 1 |
| Traes_3AL_DED8A29EC.1 | 48 | 68 | 48 | 70 | WRKY | 1 | 21 | 21 | 31.9 | 1.10E-07 | 1 |
| Traes_3AL_F326C5B8E.1 | 41 | 97 | 41 | 98 | WRKY | 1 | 59 | 59 | 90.4 | 6.10E-26 | 1 |
| Traes_3AS_5CD024A9E.1 | 19 | 76 | 18 | 76 | WRKY | 2 | 60 | 59 | 99 | 1.30E-28 | 1 |
| Traes_3B_8B0D448D8.1 | 50 | 109 | 49 | 110 | WRKY | 2 | 59 | 60 | 84.1 | 5.90E-24 | 1 |
| Traes_3B_990298FF5.1 | 217 | 272 | 217 | 273 | WRKY | 1 | 59 | 59 | 85.7 | 1.80E-24 | 2 |
| | 381 | 438 | 381 | 438 | WRKY | 1 | 60 | 60 | 88.4 | 2.50E-25 | |
| TRAES3BF001300030CFD_t1 | 105 | 162 | 104 | 163 | WRKY | 2 | 59 | 59 | 83.7 | 7.60E-24 | 1 |
| TRAES3BF003800010CFD_t1 | 307 | 364 | 306 | 364 | WRKY | 2 | 60 | 59 | 93.3 | 7.40E-27 | 2 |
| | 105 | 162 | 104 | 163 | WRKY | 2 | 59 | 59 | 83.5 | 8.50E-24 | |
| TRAES3BF005100020CFD_t1 | 128 | 147 | 127 | 147 | WRKY | 2 | 21 | 20 | 27.2 | 3.40E-06 | 1 |
| TRAES3BF005100030CFD_t1 | 128 | 148 | 127 | 150 | WRKY | 2 | 22 | 21 | 27 | 3.80E-06 | 2 |
| | 157 | 222 | 156 | 222 | WRKY | 2 | 60 | 66 | 72.4 | 2.60E-20 | |
| TRAES3BF021100090CFD_t1 | 195 | 252 | 195 | 252 | WRKY | 1 | 60 | 60 | 89.7 | 1.00E-25 | 1 |
| TRAES3BF021300010CFD_t1 | 195 | 252 | 195 | 252 | WRKY | 1 | 60 | 60 | 89.7 | 1.00E-25 | 1 |
| TRAES3BF029000080CFD_t1 | 80 | 137 | 79 | 137 | WRKY | 2 | 60 | 59 | 88.7 | 2.00E-25 | 2 |

| | | | | | | | | | | | |
|-------------------------|------|------|------|------|------|----|----|----|------|----------|---|
| | 177 | 233 | 177 | 234 | WRKY | 1 | 59 | 59 | 86.5 | 1.00E-24 | |
| TRAES3BF051200110CFD_t1 | 123 | 182 | 123 | 183 | WRKY | 1 | 59 | 61 | 85.6 | 2.00E-24 | 1 |
| TRAES3BF058500060CFD_t1 | 167 | 224 | 167 | 224 | WRKY | 1 | 60 | 60 | 89.9 | 8.70E-26 | 1 |
| TRAES3BF066700160CFD_t1 | 129 | 185 | 129 | 186 | WRKY | 1 | 59 | 59 | 78.6 | 3.00E-22 | 1 |
| TRAES3BF073300120CFD_t1 | 75 | 131 | 74 | 132 | WRKY | 2 | 59 | 58 | 88.2 | 2.90E-25 | 1 |
| TRAES3BF081400030CFD_t1 | 28 | 83 | 27 | 84 | WRKY | 2 | 59 | 58 | 68.2 | 5.20E-19 | 1 |
| TRAES3BF090100100CFD_t1 | 151 | 206 | 150 | 207 | WRKY | 2 | 59 | 58 | 91.7 | 2.40E-26 | 1 |
| TRAES3BF111700140CFD_t1 | 116 | 172 | 116 | 173 | WRKY | 1 | 59 | 59 | 83.6 | 8.20E-24 | 1 |
| TRAES3BF180700010CFD_t1 | 163 | 220 | 162 | 220 | WRKY | 2 | 60 | 59 | 77.1 | 8.70E-22 | 1 |
| TRAES3BF267200010CFD_t1 | 119 | 175 | 119 | 176 | WRKY | 1 | 59 | 59 | 83.2 | 1.10E-23 | 1 |
| Traes_3DL_2551BF2C1.1 | 20 | 52 | 19 | 52 | WRKY | 2 | 32 | 33 | 43.4 | 2.80E-11 | 1 |
| Traes_3DL_48F7A19D2.1 | 68 | 127 | 67 | 128 | WRKY | 2 | 59 | 60 | 84.6 | 4.00E-24 | 1 |
| Traes_3DL_678D51EAD.1 | 31 | 68 | 31 | 68 | WRKY | 1 | 36 | 38 | 55.4 | 5.40E-15 | 1 |
| Traes_3DL_7456F61A3.1 | 12 | 52 | 11 | 53 | WRKY | 2 | 40 | 41 | 66 | 2.60E-18 | 1 |
| Traes_3DL_DF0D3F3FE.1 | 6 | 62 | 6 | 63 | WRKY | 1 | 59 | 59 | 84.1 | 5.80E-24 | 1 |
| Traes_3DS_9A02CF31D.1 | 219 | 278 | 219 | 279 | WRKY | 1 | 59 | 61 | 88.2 | 3.10E-25 | 1 |
| Traes_3DS_F6B1E6078.1 | 24 | 62 | 24 | 63 | WRKY | 1 | 40 | 40 | 64.9 | 5.60E-18 | 1 |
| Traes_4AL_234E1CDF6.1 | 65 | 120 | 65 | 121 | WRKY | 1 | 59 | 59 | 72.6 | 2.20E-20 | 1 |
| Traes_4AL_2EEEECCC4B.1 | 94 | 150 | 94 | 150 | WRKY | 1 | 60 | 60 | 80.4 | 8.00E-23 | 2 |
| | 261 | 318 | 261 | 318 | WRKY | 1 | 60 | 60 | 87.8 | 4.00E-25 | |
| Traes_4AL_3E11167D9.1 | 225 | 262 | 225 | 262 | WRKY | 1 | 38 | 38 | 59.1 | 3.80E-16 | 1 |
| Traes_4AL_98B1C762B.1 | 283 | 339 | 282 | 340 | WRKY | 2 | 59 | 58 | 94.8 | 2.50E-27 | 1 |
| Traes_4AL_9E0D1CFA6.1 | 42 | 102 | 42 | 103 | WRKY | 1 | 59 | 61 | 85.8 | 1.70E-24 | 1 |
| Traes_4AL_C2A825B6D.1 | 43 | 81 | 43 | 81 | WRKY | 1 | 40 | 40 | 60.4 | 1.40E-16 | 1 |
| Traes_4AS_0DA136E0E.1 | 5 | 56 | 3 | 56 | WRKY | 10 | 60 | 53 | 58 | 8.30E-16 | 1 |
| Traes_4AS_70DF607CC.1 | 33 | 93 | 33 | 94 | WRKY | 1 | 59 | 61 | 84.7 | 3.60E-24 | 1 |
| Traes_4BL_A8C6FBEB6.1 | 33 | 93 | 33 | 94 | WRKY | 1 | 59 | 61 | 84.7 | 3.60E-24 | 1 |
| Traes_4BL_EFEC50B26.2 | 88 | 144 | 88 | 144 | WRKY | 1 | 60 | 60 | 80.9 | 5.70E-23 | 2 |
| | 255 | 278 | 255 | 283 | WRKY | 1 | 24 | 24 | 34.5 | 1.70E-08 | |
| Traes_4BS_A6D9EB0E5.1 | 98 | 158 | 98 | 159 | WRKY | 1 | 59 | 61 | 85.3 | 2.50E-24 | 1 |
| Traes_4BS_CE839571B.2 | 273 | 326 | 272 | 329 | WRKY | 2 | 56 | 55 | 83.8 | 7.30E-24 | 1 |
| Traes_4DL_3140A8240.1 | 33 | 93 | 33 | 94 | WRKY | 1 | 59 | 61 | 84.7 | 3.60E-24 | |
| Traes_4DS_3BE557D5C.2 | 274 | 326 | 273 | 327 | WRKY | 2 | 55 | 54 | 81.5 | 3.80E-23 | 1 |
| Traes_4DS_CFC487CE5.2 | 53 | 108 | 53 | 109 | WRKY | 1 | 59 | 59 | 72.7 | 2.10E-20 | 1 |
| Traes_4DS_DC3C9DC42.2 | 203 | 259 | 203 | 259 | WRKY | 1 | 60 | 60 | 79.9 | 1.20E-22 | 2 |
| | 370 | 427 | 370 | 427 | WRKY | 1 | 60 | 60 | 87.3 | 5.90E-25 | |
| Traes_4DS_FE38A59D0.1 | 42 | 102 | 42 | 103 | WRKY | 1 | 59 | 61 | 85.8 | 1.70E-24 | 1 |
| Traes_5AL_06A6F9328.2 | 31 | 88 | 31 | 88 | WRKY | 1 | 60 | 60 | 91.6 | 2.60E-26 | 1 |
| Traes_5AL_69A969FF4.1 | 34 | 106 | 33 | 106 | WRKY | 2 | 60 | 73 | 82.1 | 2.30E-23 | 1 |
| Traes_5AL_6F7D1D441.1 | 53 | 109 | 52 | 110 | WRKY | 2 | 59 | 58 | 80.6 | 7.00E-23 | 1 |
| Traes_5AL_6FDB440FB.1 | 4 | 50 | 2 | 50 | WRKY | 20 | 60 | 47 | 43 | 3.90E-11 | 1 |
| Traes_5AL_7164FEAC3.1 | 46 | 83 | 46 | 83 | WRKY | 1 | 38 | 38 | 56 | 3.50E-15 | 1 |
| Traes_5AL_A3653B781.1 | 52 | 108 | 51 | 109 | WRKY | 2 | 59 | 58 | 95.4 | 1.70E-27 | 1 |
| Traes_5AL_B4E8A3115.2 | 1333 | 1392 | 1333 | 1393 | WRKY | 1 | 59 | 61 | 87 | 7.20E-25 | 1 |
| Traes_5AL_E566BD64E.1 | 1 | 48 | 1 | 48 | WRKY | 11 | 60 | 50 | 61.2 | 8.10E-17 | 1 |
| Traes_5AL_E644A6A0B.1 | 117 | 172 | 116 | 172 | WRKY | 2 | 60 | 59 | 85.8 | 1.70E-24 | 2 |
| | 277 | 329 | 275 | 330 | WRKY | 3 | 59 | 57 | 78.1 | 4.40E-22 | |
| Traes_5AL_ED3ADED51.3 | 278 | 334 | 278 | 334 | WRKY | 1 | 60 | 60 | 87.8 | 4.10E-25 | 2 |
| | 491 | 548 | 491 | 548 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |

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|-----------------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| Traes_5AS_433D3E526.1 | 70 | 126 | 69 | 127 | WRKY | 2 | 59 | 58 | 93.6 | 6.40E-27 | 1 |
| Traes_5AS_9C6171380.1 | 92 | 148 | 92 | 148 | WRKY | 1 | 60 | 60 | 85.8 | 1.70E-24 | 2 |
| | 249 | 306 | 249 | 306 | WRKY | 1 | 60 | 60 | 91.6 | 2.50E-26 | |
| Traes_5BL_0A3D332A8.1 | 122 | 181 | 122 | 182 | WRKY | 1 | 59 | 61 | 93.8 | 5.30E-27 | 1 |
| Traes_5BL_175E7FC38.1 | 133 | 197 | 132 | 197 | WRKY | 2 | 60 | 65 | 79.4 | 1.70E-22 | 1 |
| Traes_5BL_17A712C94.1 | 278 | 334 | 278 | 334 | WRKY | 1 | 60 | 60 | 87.5 | 5.00E-25 | 2 |
| | 491 | 548 | 491 | 548 | WRKY | 1 | 60 | 60 | 88.3 | 2.70E-25 | |
| Traes_5BL_8688F70C9.1 | 234 | 290 | 233 | 291 | WRKY | 2 | 59 | 58 | 93.7 | 5.70E-27 | 1 |
| Traes_5BL_8BEF7F9CD.1 | 172 | 230 | 172 | 230 | WRKY | 1 | 60 | 60 | 86.5 | 1.00E-24 | 1 |
| Traes_5BL_90757F0CC.1 | 173 | 231 | 173 | 231 | WRKY | 1 | 60 | 60 | 86.5 | 1.00E-24 | 1 |
| Traes_5BL_A522C62D1.1 | 117 | 172 | 116 | 172 | WRKY | 2 | 60 | 59 | 85.8 | 1.70E-24 | 2 |
| | 277 | 329 | 275 | 330 | WRKY | 3 | 59 | 57 | 78.1 | 4.40E-22 | |
| Traes_5BL_AEF9FE805.2 | 333 | 389 | 332 | 390 | WRKY | 2 | 59 | 58 | 92.2 | 1.70E-26 | 1 |
| Traes_5BL_B9DD3E76F.1 | 193 | 250 | 192 | 250 | WRKY | 2 | 60 | 59 | 88.7 | 2.10E-25 | 1 |
| Traes_5BL_C1D6B6B74.2 | 143 | 200 | 143 | 200 | WRKY | 1 | 60 | 60 | 90.4 | 6.10E-26 | 1 |
| Traes_5BL_D3C383CF5.1 | 191 | 247 | 191 | 247 | WRKY | 1 | 60 | 60 | 76.4 | 1.50E-21 | 2 |
| | 315 | 337 | 315 | 339 | WRKY | 1 | 23 | 23 | 34 | 2.50E-08 | |
| Traes_5BL_E294922A9.2 | 308 | 364 | 307 | 365 | WRKY | 2 | 59 | 58 | 86.6 | 9.60E-25 | 1 |
| Traes_5BL_F853EA802.1 | 125 | 184 | 125 | 185 | WRKY | 1 | 59 | 61 | 92.2 | 1.70E-26 | 1 |
| Traes_5BS_C46781248.1 | 87 | 143 | 87 | 143 | WRKY | 1 | 60 | 60 | 85.8 | 1.70E-24 | 2 |
| | 244 | 301 | 244 | 301 | WRKY | 1 | 60 | 60 | 91.7 | 2.50E-26 | |
| Traes_5BS_E0345D5DF.2 | 289 | 345 | 288 | 346 | WRKY | 2 | 59 | 58 | 90 | 8.30E-26 | 1 |
| Traes_5DL_09F1F8F79.1 | 130 | 194 | 129 | 194 | WRKY | 2 | 60 | 65 | 77.7 | 5.80E-22 | 1 |
| Traes_5DL_1733FB4DA.1 | 802 | 861 | 802 | 862 | WRKY | 1 | 59 | 61 | 76.9 | 1.00E-21 | 2 |
| | 917 | 976 | 917 | 977 | WRKY | 1 | 59 | 61 | 88 | 3.40E-25 | |
| Traes_5DL_21F7C6BF7.2 | 278 | 334 | 278 | 334 | WRKY | 1 | 60 | 60 | 87.8 | 4.00E-25 | 2 |
| | 491 | 548 | 491 | 548 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | |
| Traes_5DL_2553A6C33.1 | 14 | 70 | 13 | 71 | WRKY | 2 | 59 | 58 | 89.8 | 9.40E-26 | 1 |
| Traes_5DL_32D78D06A.1 | 47 | 105 | 47 | 105 | WRKY | 1 | 60 | 60 | 88.3 | 2.80E-25 | 1 |
| Traes_5DL_46E3AC8D6.1 | 187 | 243 | 187 | 243 | WRKY | 1 | 60 | 60 | 76.4 | 1.50E-21 | 2 |
| | 314 | 340 | 314 | 342 | WRKY | 1 | 27 | 27 | 39.1 | 6.40E-10 | |
| Traes_5DL_4BA2CC560.2 | 117 | 172 | 116 | 172 | WRKY | 2 | 60 | 59 | 85.8 | 1.70E-24 | 2 |
| | 278 | 330 | 276 | 331 | WRKY | 3 | 59 | 57 | 78.1 | 4.40E-22 | |
| Traes_5DL_5C93510D5.1 | 125 | 184 | 125 | 185 | WRKY | 1 | 59 | 61 | 89.7 | 9.90E-26 | 1 |
| Traes_5DL_7E2053226.2 | 37 | 94 | 37 | 94 | WRKY | 1 | 60 | 60 | 91.4 | 3.00E-26 | 1 |
| Traes_5DL_A54ED44C9.2 | 327 | 383 | 326 | 384 | WRKY | 2 | 59 | 58 | 92.2 | 1.70E-26 | 1 |
| Traes_5DL_C93641E43.1 | 121 | 180 | 121 | 181 | WRKY | 1 | 59 | 61 | 93.8 | 5.40E-27 | 1 |
| Traes_5DL_E4A6D1889.2 | 188 | 245 | 187 | 245 | WRKY | 2 | 60 | 59 | 88.7 | 2.10E-25 | 1 |
| Traes_5DS_5DEA5C9E3.1 | 229 | 285 | 229 | 285 | WRKY | 1 | 60 | 60 | 85.1 | 2.80E-24 | 2 |
| | 386 | 443 | 386 | 443 | WRKY | 1 | 60 | 60 | 91 | 4.10E-26 | |
| Traes_5DS_D83DEA9B0.1 | 290 | 346 | 289 | 347 | WRKY | 2 | 59 | 58 | 91 | 3.90E-26 | 1 |
| Traes_6AL_0C0899C15.1 | 317 | 375 | 317 | 375 | WRKY | 1 | 60 | 60 | 93.1 | 8.60E-27 | 1 |
| Traes_6AL_A5FB7CFA5.1 | 230 | 287 | 229 | 287 | WRKY | 2 | 60 | 59 | 90.9 | 4.40E-26 | 1 |
| Traes_6AL_BA4636569.1 | 162 | 219 | 162 | 219 | WRKY | 1 | 60 | 60 | 87.9 | 3.80E-25 | 1 |
| Traes_6AS_68775100B.1 | 9 | 68 | 9 | 69 | WRKY | 1 | 59 | 61 | 90.2 | 7.30E-26 | 1 |
| Traes_6AS_DA75BB1FD.1 | 193 | 250 | 193 | 251 | WRKY | 1 | 59 | 59 | 88.7 | 2.10E-25 | 1 |
| Traes_6BL_B92FA1D38.1 | 2 | 58 | 2 | 58 | WRKY | 1 | 58 | 58 | 95.2 | 1.90E-27 | 1 |
| Traes_6BL_DD840863A.1 | 161 | 218 | 161 | 218 | WRKY | 1 | 60 | 60 | 87.9 | 3.80E-25 | 1 |
| Traes_6BL_EEAA2A7E3.1 | 42 | 99 | 41 | 99 | WRKY | 2 | 60 | 59 | 93.8 | 5.50E-27 | 1 |

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|------------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Traes_6DL_AB95B0CE0.1 | 315 | 373 | 315 | 373 | WRKY | 1 | 60 | 60 | 93.1 | 8.70E-27 | 1 |
| Traes_6DL_D29E210A1.1 | 162 | 219 | 162 | 219 | WRKY | 1 | 60 | 60 | 87.9 | 3.80E-25 | 1 |
| Traes_6DL_D4F2CDDDC.1 | 230 | 287 | 229 | 287 | WRKY | 2 | 60 | 59 | 90.9 | 4.40E-26 | 1 |
| Traes_6DS_8F684013D.2 | 77 | 134 | 77 | 135 | WRKY | 1 | 59 | 59 | 91.1 | 3.90E-26 | 1 |
| Traes_6DS_BF71C1557.2 | 91 | 125 | 83 | 126 | WRKY | 25 | 59 | 36 | 24.4 | 2.60E-05 | 1 |
| Traes_7AL_48C81DE03.1 | 201 | 255 | 200 | 256 | WRKY | 2 | 59 | 58 | 77.4 | 7.10E-22 | 2 |
| | 369 | 389 | 368 | 394 | WRKY | 2 | 22 | 21 | 28.4 | 1.40E-06 | |
| Traes_7AL_48C81DE031.1 | 201 | 255 | 200 | 256 | WRKY | 2 | 59 | 58 | 77.4 | 7.10E-22 | 2 |
| | 369 | 389 | 368 | 394 | WRKY | 2 | 22 | 21 | 28.4 | 1.40E-06 | |
| Traes_7AL_AC56CC184.1 | 51 | 91 | 51 | 91 | WRKY | 1 | 41 | 41 | 61.7 | 5.50E-17 | 1 |
| Traes_7AS_C9DF68E53.2 | 243 | 301 | 243 | 301 | WRKY | 1 | 60 | 60 | 91.6 | 2.50E-26 | 1 |
| Traes_7BL_53AA25AA1.1 | 5 | 54 | 5 | 55 | WRKY | 1 | 49 | 51 | 64.4 | 7.90E-18 | 1 |
| Traes_7BL_A46F1A830.2 | 101 | 155 | 100 | 156 | WRKY | 2 | 59 | 58 | 78.3 | 3.60E-22 | 2 |
| | 269 | 290 | 268 | 297 | WRKY | 2 | 23 | 22 | 32 | 1.10E-07 | |
| Traes_7DL_5968FA56C.1 | 62 | 119 | 62 | 120 | WRKY | 1 | 59 | 59 | 84.6 | 4.00E-24 | 1 |
| Traes_7DL_A9EF00572.1 | 112 | 171 | 112 | 172 | WRKY | 1 | 59 | 61 | 75.9 | 2.10E-21 | 1 |
| Traes_7DL_B09854286.1 | 52 | 109 | 52 | 110 | WRKY | 1 | 59 | 59 | 86.8 | 8.00E-25 | 1 |
| Traes_7DL_B86B36F67.1 | 23 | 80 | 23 | 81 | WRKY | 1 | 59 | 59 | 86.4 | 1.10E-24 | 1 |
| Traes_7DL_F849918EA.2 | 62 | 119 | 62 | 120 | WRKY | 1 | 59 | 59 | 83.6 | 8.10E-24 | 1 |
| Traes_7DS_01F74C6F3.1 | 29 | 88 | 29 | 89 | WRKY | 1 | 59 | 61 | 93.3 | 7.50E-27 | 1 |
| Traes_7DS_24C563960.1 | 101 | 155 | 100 | 156 | WRKY | 2 | 59 | 58 | 78.7 | 2.90E-22 | 2 |
| | 269 | 290 | 268 | 297 | WRKY | 2 | 23 | 22 | 32 | 1.10E-07 | |

***Oryza sativa* (88 WRKYs)**

| | | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| OS01T0182700-01 | 204 | 260 | 204 | 261 | WRKY | 1 | 59 | 59 | 87.5 | 4.90E-25 | 1 |
| OS01T0185900-01 | 238 | 296 | 238 | 296 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | 1 |
| OS01T0186000-01 | 81 | 137 | 81 | 138 | WRKY | 1 | 59 | 59 | 82.8 | 1.40E-23 | 1 |
| OS01T0289600-00 | 137 | 194 | 137 | 194 | WRKY | 1 | 60 | 60 | 85.4 | 2.30E-24 | 1 |
| OS01T0584900-01 | 125 | 182 | 124 | 182 | WRKY | 2 | 60 | 59 | 91.4 | 3.10E-26 | 1 |
| OS01T0586800-00 | 33 | 90 | 32 | 90 | WRKY | 2 | 60 | 59 | 87.3 | 5.60E-25 | 1 |
| OS01T0624700-01 | 178 | 235 | 177 | 235 | WRKY | 2 | 60 | 59 | 80 | 1.10E-22 | 1 |
| OS01T0626400-01 | 205 | 262 | 205 | 262 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | 1 |
| OS01T0656400-00 | 101 | 160 | 101 | 161 | WRKY | 1 | 59 | 61 | 88.6 | 2.20E-25 | 1 |
| OS01T0714800-01 | 160 | 216 | 160 | 217 | WRKY | 1 | 59 | 59 | 82.9 | 1.30E-23 | 1 |
| OS01T0730700-01 | 95 | 151 | 94 | 152 | WRKY | 2 | 59 | 58 | 91.1 | 3.60E-26 | 1 |
| OS01T0734000-01 | 176 | 233 | 176 | 233 | WRKY | 1 | 60 | 60 | 90.9 | 4.30E-26 | 1 |
| OS01T0750100-01 | 99 | 156 | 98 | 156 | WRKY | 2 | 60 | 59 | 91.6 | 2.60E-26 | 1 |
| OS01T0750100-02 | 99 | 151 | 98 | 152 | WRKY | 2 | 55 | 54 | 80.5 | 7.40E-23 | 1 |
| OS01T0750100-03 | 99 | 156 | 98 | 156 | WRKY | 2 | 60 | 59 | 91.3 | 3.20E-26 | 1 |
| OS01T0820400-00 | 71 | 130 | 70 | 131 | WRKY | 2 | 59 | 60 | 83.9 | 6.60E-24 | 1 |
| OS01T0820700-00 | 16 | 75 | 15 | 76 | WRKY | 2 | 59 | 60 | 87.4 | 5.30E-25 | 1 |
| OS01T0821600-01 | 114 | 174 | 113 | 175 | WRKY | 2 | 59 | 61 | 79.4 | 1.60E-22 | 1 |
| OS01T0826400-01 | 220 | 275 | 220 | 276 | WRKY | 1 | 59 | 59 | 88.8 | 2.00E-25 | 2 |
| | 385 | 442 | 385 | 442 | WRKY | 1 | 60 | 60 | 89.8 | 9.30E-26 | |
| OS01T0842801-00 | 166 | 186 | 165 | 190 | WRKY | 2 | 22 | 21 | 33.1 | 4.90E-08 | 1 |
| OS01T0972800-01 | 160 | 216 | 160 | 217 | WRKY | 1 | 59 | 59 | 87.4 | 5.40E-25 | 1 |
| OS02T0265200-01 | 176 | 232 | 175 | 233 | WRKY | 2 | 59 | 58 | 90.8 | 4.50E-26 | 1 |
| OS02T0462800-01 | 169 | 225 | 168 | 226 | WRKY | 2 | 59 | 58 | 86.4 | 1.10E-24 | 1 |
| OS02T0652100-01 | 240 | 297 | 239 | 297 | WRKY | 2 | 60 | 59 | 89.6 | 1.10E-25 | 1 |
| OS02T0698800-01 | 138 | 159 | 138 | 163 | WRKY | 1 | 22 | 22 | 31.7 | 1.30E-07 | 1 |

| | | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| OS02T0770500-00 | 415 | 473 | 415 | 473 | WRKY | 1 | 60 | 60 | 92.7 | 1.20E-26 | 1 |
| OS03T0321700-01 | 137 | 193 | 137 | 193 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| OS03T0335200-01 | 304 | 325 | 304 | 328 | WRKY | 1 | 22 | 22 | 32 | 1.10E-07 | 1 |
| OS03T0444900-00 | 33 | 93 | 33 | 94 | WRKY | 1 | 59 | 61 | 84 | 6.30E-24 | 2 |
| | 92 | 152 | 92 | 152 | WRKY | 1 | 60 | 62 | 84.2 | 5.30E-24 | |
| OS03T0657400-00 | 322 | 378 | 321 | 379 | WRKY | 2 | 59 | 58 | 93.2 | 8.50E-27 | 1 |
| OS03T0741400-01 | 48 | 105 | 48 | 106 | WRKY | 1 | 59 | 59 | 71.8 | 4.00E-20 | 1 |
| OS03T0758000-01 | 52 | 109 | 52 | 109 | WRKY | 1 | 60 | 60 | 91.6 | 2.60E-26 | 1 |
| OS03T0758950-00 | 200 | 257 | 199 | 257 | WRKY | 2 | 60 | 59 | 89.6 | 1.10E-25 | 2 |
| | 194 | 250 | 194 | 250 | WRKY | 1 | 60 | 60 | 78 | 4.50E-22 | |
| OS03T0855100-01 | 340 | 397 | 340 | 397 | WRKY | 1 | 60 | 60 | 85.3 | 2.40E-24 | 1 |
| OS04T0287400-01 | 523 | 579 | 523 | 579 | WRKY | 1 | 60 | 60 | 82 | 2.50E-23 | 1 |
| OS04T0471700-00 | 755 | 812 | 755 | 812 | WRKY | 1 | 60 | 60 | 87.1 | 6.40E-25 | 2 |
| | 248 | 304 | 247 | 305 | WRKY | 2 | 59 | 58 | 90.9 | 4.40E-26 | |
| OS04T0545000-01 | 164 | 221 | 163 | 221 | WRKY | 2 | 60 | 59 | 90 | 8.50E-26 | 1 |
| OS04T0597300-01 | 170 | 226 | 170 | 227 | WRKY | 1 | 59 | 59 | 87.4 | 5.30E-25 | 1 |
| OS04T0605100-01 | 223 | 279 | 222 | 280 | WRKY | 2 | 59 | 58 | 92.3 | 1.60E-26 | 1 |
| OS05T0129800-01 | 40 | 60 | 39 | 63 | WRKY | 2 | 22 | 21 | 27.9 | 2.00E-06 | 2 |
| | 123 | 164 | 119 | 164 | WRKY | 18 | 60 | 43 | 44.8 | 1.10E-11 | |
| OS05T0137500-00 | 222 | 279 | 221 | 279 | WRKY | 2 | 60 | 59 | 92.3 | 1.60E-26 | 1 |
| OS05T0183100-01 | 114 | 170 | 114 | 171 | WRKY | 1 | 59 | 59 | 81.6 | 3.40E-23 | 1 |
| OS05T0321900-01 | 228 | 287 | 228 | 288 | WRKY | 1 | 59 | 61 | 86.6 | 9.30E-25 | 1 |
| OS05T0322900-01 | 118 | 178 | 118 | 178 | WRKY | 1 | 60 | 62 | 77.8 | 5.50E-22 | 1 |
| OS05T0322900-02 | 118 | 138 | 118 | 138 | WRKY | 1 | 21 | 21 | 25.7 | 1.00E-05 | 1 |
| OS05T0343400-01 | 190 | 247 | 190 | 247 | WRKY | 1 | 60 | 60 | 88.4 | 2.60E-25 | 2 |
| | 352 | 409 | 352 | 409 | WRKY | 1 | 60 | 60 | 89.3 | 1.40E-25 | |
| OS05T0474800-01 | 154 | 213 | 154 | 214 | WRKY | 1 | 59 | 61 | 90.8 | 4.50E-26 | 2 |
| | 219 | 275 | 219 | 275 | WRKY | 1 | 60 | 60 | 86.8 | 8.00E-25 | |
| OS05T0478400-00 | 392 | 449 | 392 | 449 | WRKY | 1 | 60 | 60 | 90.6 | 5.40E-26 | 1 |
| OS05T0478700-00 | 136 | 196 | 136 | 197 | WRKY | 1 | 59 | 61 | 70.7 | 8.80E-20 | 1 |
| OS05T0478800-00 | 21 | 86 | 21 | 86 | WRKY | 1 | 60 | 66 | 84.4 | 4.60E-24 | 1 |
| OS05T0537100-00 | 135 | 191 | 135 | 192 | WRKY | 1 | 59 | 59 | 87.6 | 4.50E-25 | 1 |
| OS05T0565900-00 | 201 | 258 | 201 | 258 | WRKY | 1 | 60 | 60 | 91.4 | 3.10E-26 | 1 |
| OS05T0571200-01 | 106 | 165 | 106 | 166 | WRKY | 1 | 59 | 61 | 87.6 | 4.60E-25 | 1 |
| OS05T0583000-01 | 188 | 245 | 188 | 245 | WRKY | 1 | 60 | 60 | 93.8 | 5.20E-27 | 1 |
| OS06T0146250-00 | 256 | 314 | 256 | 314 | WRKY | 1 | 60 | 60 | 94.7 | 2.90E-27 | 1 |
| OS06T0158100-00 | 144 | 204 | 144 | 204 | WRKY | 1 | 60 | 62 | 93.1 | 8.80E-27 | 1 |
| OS06T0504900-00 | 217 | 272 | 216 | 274 | WRKY | 2 | 58 | 57 | 77.1 | 8.80E-22 | 1 |
| OS06T0649000-01 | 220 | 277 | 220 | 278 | WRKY | 1 | 59 | 59 | 87.5 | 4.80E-25 | 1 |
| OS06T0649000-02 | 194 | 251 | 194 | 252 | WRKY | 1 | 59 | 59 | 87.7 | 4.30E-25 | 1 |
| OS07T0111400-00 | 124 | 181 | 124 | 181 | WRKY | 1 | 60 | 60 | 93.7 | 5.80E-27 | 1 |
| OS07T0583700-01 | 236 | 292 | 236 | 292 | WRKY | 1 | 60 | 60 | 84.8 | 3.50E-24 | 2 |
| | 410 | 467 | 410 | 467 | WRKY | 1 | 60 | 60 | 91.7 | 2.50E-26 | |
| OS07T0596900-00 | 170 | 226 | 170 | 226 | WRKY | 1 | 60 | 60 | 79.9 | 1.20E-22 | 2 |
| | 339 | 395 | 339 | 396 | WRKY | 1 | 59 | 59 | 87.8 | 4.20E-25 | |
| OS07T0680400-01 | 66 | 121 | 65 | 121 | WRKY | 2 | 60 | 59 | 55.4 | 5.20E-15 | 1 |
| OS08T0198100-00 | 280 | 336 | 279 | 337 | WRKY | 2 | 59 | 58 | 90.6 | 5.40E-26 | 1 |
| OS08T0235800-00 | 229 | 284 | 228 | 284 | WRKY | 2 | 60 | 59 | 81 | 5.50E-23 | 1 |
| OS08T0276200-01 | 277 | 332 | 277 | 332 | WRKY | 1 | 60 | 60 | 82.1 | 2.40E-23 | 1 |

| | | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| OS08T0386200-01 | 488 | 545 | 488 | 545 | WRKY | 1 | 60 | 60 | 88.4 | 2.70E-25 | 1 |
| OS08T0499300-01 | 130 | 190 | 130 | 190 | WRKY | 1 | 60 | 62 | 92.8 | 1.10E-26 | 2 |
| | 126 | 185 | 126 | 186 | WRKY | 1 | 59 | 61 | 91.4 | 3.00E-26 | |
| OS08T0499300-02 | 166 | 224 | 166 | 224 | WRKY | 1 | 60 | 60 | 85 | 2.90E-24 | 2 |
| | 1 | 41 | 1 | 41 | WRKY | 16 | 60 | 45 | 46.1 | 4.10E-12 | |
| OS09T0334500-01 | 197 | 254 | 197 | 254 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 |
| OS09T0417600-01 | 166 | 224 | 166 | 224 | WRKY | 1 | 60 | 60 | 85 | 2.90E-24 | 1 |
| OS09T0417600-02 | 434 | 491 | 434 | 491 | WRKY | 1 | 60 | 60 | 88.5 | 2.50E-25 | 1 |
| OS09T0417800-01 | 144 | 201 | 144 | 202 | WRKY | 1 | 59 | 59 | 82.6 | 1.70E-23 | 1 |
| OS09T0481700-01 | 434 | 491 | 434 | 491 | WRKY | 1 | 60 | 60 | 88.5 | 2.50E-25 | 1 |
| OS09T0481700-02 | 113 | 177 | 113 | 177 | WRKY | 1 | 60 | 65 | 77.2 | 8.20E-22 | 1 |
| OS11T0116900-01 | 146 | 214 | 145 | 215 | WRKY | 2 | 59 | 69 | 79.3 | 1.80E-22 | 1 |
| OS11T0117400-00 | 44 | 104 | 44 | 105 | WRKY | 1 | 59 | 61 | 87.6 | 4.50E-25 | 1 |
| OS11T0117500-01 | 131 | 150 | 130 | 152 | WRKY | 2 | 21 | 20 | 28.4 | 1.40E-06 | 1 |
| OS11T0117600-00 | 137 | 194 | 137 | 194 | WRKY | 1 | 60 | 61 | 95.1 | 2.10E-27 | 1 |
| OS11T0490900-01 | 3 | 31 | 1 | 32 | WRKY | 30 | 59 | 30 | 30.7 | 2.70E-07 | 1 |
| OS11T0685700-00 | 69 | 129 | 69 | 129 | WRKY | 1 | 60 | 62 | 77.9 | 5.00E-22 | 2 |
| | 12 | 54 | 9 | 55 | WRKY | 14 | 59 | 46 | 50.9 | 1.30E-13 | |
| OS11T0686250-00 | 42 | 102 | 42 | 103 | WRKY | 1 | 59 | 61 | 87.7 | 4.40E-25 | 1 |
| OS12T0116400-00 | 73 | 137 | 73 | 137 | WRKY | 1 | 60 | 65 | 77.6 | 6.10E-22 | 1 |
| OS12T0116600-01 | 147 | 215 | 146 | 216 | WRKY | 2 | 59 | 69 | 79 | 2.30E-22 | 1 |
| OS12T0116700-01 | 129 | 185 | 129 | 185 | WRKY | 1 | 60 | 60 | 86.4 | 1.10E-24 | 1 |
| OS12T0507300-00 | 286 | 343 | 286 | 343 | WRKY | 1 | 60 | 60 | 91.5 | 2.70E-26 | 2 |
| | 297 | 353 | 296 | 354 | WRKY | 2 | 59 | 58 | 93.9 | 5.00E-27 | |
| OS12T0597700-01 | 122 | 182 | 122 | 183 | WRKY | 1 | 59 | 62 | 80.8 | 6.30E-23 | 1 |
| OS12T0597700-02 | 197 | 253 | 196 | 254 | WRKY | 2 | 59 | 58 | 94.6 | 3.00E-27 | 1 |

***Zea mays* (163 WRKYs)**

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| AC165171.2_FGP002 | 129 | 185 | 129 | 186 | WRKY | 1 | 59 | 59 | 87.7 | 4.50E-25 | 1 |
| AC193630.3_FGP003 | 248 | 285 | 248 | 300 | WRKY | 1 | 38 | 38 | 61.7 | 5.60E-17 | 1 |
| AC194362.3_FGP003 | 117 | 136 | 116 | 146 | WRKY | 2 | 21 | 20 | 29.6 | 5.90E-07 | 1 |
| AC198725.4_FGP009 | 198 | 255 | 198 | 255 | WRKY | 1 | 60 | 60 | 88.7 | 2.00E-25 | 1 |
| AC205562.3_FGP002 | 116 | 176 | 116 | 176 | WRKY | 1 | 60 | 62 | 91.1 | 3.60E-26 | 1 |
| AC208110.2_FGP001 | 238 | 259 | 237 | 263 | WRKY | 2 | 23 | 22 | 25.2 | 1.40E-05 | 2 |
| | 301 | 338 | 298 | 338 | WRKY | 22 | 60 | 39 | 47.9 | 1.20E-12 | |
| AC209050.3_FGP003 | 331 | 388 | 331 | 389 | WRKY | 1 | 59 | 59 | 86.4 | 1.10E-24 | 1 |
| GRMZM2G003551_P01 | 141 | 201 | 141 | 201 | WRKY | 1 | 60 | 62 | 88.5 | 2.50E-25 | 1 |
| GRMZM2G004060_P01 | 168 | 228 | 168 | 228 | WRKY | 1 | 60 | 62 | 77.6 | 6.10E-22 | 1 |
| GRMZM2G005207_P01 | 112 | 174 | 111 | 175 | WRKY | 2 | 59 | 63 | 81.4 | 4.00E-23 | 1 |
| GRMZM2G006497_P01 | 150 | 207 | 149 | 207 | WRKY | 2 | 60 | 59 | 83.7 | 7.90E-24 | 1 |
| GRMZM2G008029_P01 | 220 | 276 | 220 | 276 | WRKY | 1 | 60 | 60 | 79.2 | 2.00E-22 | 2 |
| | 350 | 407 | 350 | 407 | WRKY | 1 | 60 | 60 | 84.3 | 5.00E-24 | |
| GRMZM2G012724_P01 | 204 | 261 | 204 | 261 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 2 |
| | 366 | 423 | 366 | 423 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| GRMZM2G012724_P02 | 202 | 259 | 202 | 259 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 2 |
| | 364 | 421 | 364 | 421 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| GRMZM2G012724_P03 | 131 | 188 | 131 | 188 | WRKY | 1 | 60 | 60 | 90 | 8.20E-26 | 1 |
| GRMZM2G012724_P04 | 204 | 261 | 204 | 261 | WRKY | 1 | 60 | 60 | 86.8 | 8.40E-25 | 1 |
| GRMZM2G013391_P01 | 82 | 139 | 81 | 139 | WRKY | 2 | 60 | 59 | 89.9 | 9.00E-26 | 1 |
| GRMZM2G015433_P01 | 143 | 200 | 143 | 200 | WRKY | 1 | 60 | 60 | 90.2 | 7.30E-26 | 1 |

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| GRMZM2G018487_P01 | 333 | 389 | 332 | 390 | WRKY | 2 | 59 | 58 | 93.1 | 8.80E-27 | 1 |
| GRMZM2G018487_P02 | 333 | 389 | 332 | 390 | WRKY | 2 | 59 | 58 | 93.1 | 8.80E-27 | 1 |
| GRMZM2G018721_P01 | 132 | 189 | 132 | 189 | WRKY | 1 | 60 | 60 | 90.8 | 4.70E-26 | 1 |
| GRMZM2G020254_P01 | 132 | 186 | 131 | 187 | WRKY | 2 | 59 | 58 | 87.4 | 5.30E-25 | 1 |
| GRMZM2G020254_P02 | 112 | 166 | 111 | 167 | WRKY | 2 | 59 | 58 | 87.7 | 4.50E-25 | 1 |
| GRMZM2G020254_P03 | 160 | 214 | 159 | 215 | WRKY | 2 | 59 | 58 | 87.1 | 6.60E-25 | 1 |
| GRMZM2G024898_P01 | 244 | 301 | 243 | 301 | WRKY | 2 | 60 | 59 | 90 | 8.10E-26 | 1 |
| GRMZM2G025895_P01 | 139 | 198 | 139 | 199 | WRKY | 1 | 59 | 61 | 88.2 | 3.00E-25 | 1 |
| GRMZM2G027972_P01 | 277 | 333 | 277 | 333 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 2 |
| | 537 | 576 | 533 | 576 | WRKY | 19 | 60 | 42 | 47.9 | 1.10E-12 | |
| GRMZM2G029282_P01 | 118 | 180 | 118 | 180 | WRKY | 1 | 60 | 63 | 76.2 | 1.70E-21 | 1 |
| GRMZM2G029292_P02 | 66 | 108 | 60 | 109 | WRKY | 19 | 59 | 43 | 47.5 | 1.50E-12 | 1 |
| GRMZM2G029292_P03 | 54 | 113 | 53 | 114 | WRKY | 2 | 59 | 60 | 87.3 | 5.70E-25 | 1 |
| GRMZM2G030272_P01 | 30 | 90 | 30 | 91 | WRKY | 1 | 59 | 61 | 86.5 | 1.00E-24 | 1 |
| GRMZM2G031963_P01 | 282 | 338 | 282 | 338 | WRKY | 1 | 60 | 60 | 82.7 | 1.50E-23 | 2 |
| | 498 | 555 | 498 | 555 | WRKY | 1 | 60 | 60 | 87.5 | 5.00E-25 | |
| GRMZM2G034421_P01 | 134 | 195 | 134 | 195 | WRKY | 1 | 60 | 62 | 70 | 1.40E-19 | 1 |
| GRMZM2G036703_P01 | 246 | 301 | 246 | 302 | WRKY | 1 | 59 | 59 | 87.6 | 4.70E-25 | 2 |
| | 412 | 469 | 412 | 469 | WRKY | 1 | 60 | 60 | 87.1 | 6.40E-25 | |
| GRMZM2G038158_P01 | 173 | 229 | 172 | 230 | WRKY | 2 | 59 | 58 | 85 | 2.90E-24 | 1 |
| GRMZM2G040298_P01 | 78 | 134 | 77 | 135 | WRKY | 2 | 59 | 58 | 87.4 | 5.20E-25 | 1 |
| GRMZM2G048450_P01 | 179 | 235 | 178 | 236 | WRKY | 2 | 59 | 58 | 89.2 | 1.50E-25 | 1 |
| GRMZM2G052671_P01 | 374 | 431 | 374 | 431 | WRKY | 1 | 60 | 60 | 87.8 | 3.90E-25 | 1 |
| GRMZM2G052671_P02 | 374 | 431 | 374 | 431 | WRKY | 1 | 60 | 60 | 87.8 | 3.90E-25 | 1 |
| GRMZM2G054125_P01 | 138 | 195 | 138 | 195 | WRKY | 1 | 60 | 61 | 94.5 | 3.30E-27 | 1 |
| GRMZM2G057011_P01 | 192 | 250 | 192 | 250 | WRKY | 1 | 60 | 60 | 85.6 | 2.00E-24 | 1 |
| GRMZM2G057116_P01 | 108 | 164 | 108 | 165 | WRKY | 1 | 59 | 59 | 85.8 | 1.70E-24 | 1 |
| GRMZM2G057116_P02 | 36 | 73 | 14 | 74 | WRKY | 20 | 59 | 40 | 46 | 4.50E-12 | 1 |
| GRMZM2G059562_P01 | 109 | 167 | 108 | 167 | WRKY | 2 | 60 | 60 | 83.3 | 1.00E-23 | 1 |
| GRMZM2G060918_P01 | 30 | 83 | 30 | 87 | WRKY | 1 | 52 | 54 | 75.2 | 3.50E-21 | 1 |
| GRMZM2G061408_P01 | 139 | 198 | 139 | 199 | WRKY | 1 | 59 | 61 | 88.2 | 3.00E-25 | 1 |
| GRMZM2G063216_P01 | 44 | 104 | 44 | 105 | WRKY | 1 | 59 | 61 | 87.4 | 5.40E-25 | 1 |
| GRMZM2G063216_P02 | 2 | 30 | 1 | 31 | WRKY | 31 | 59 | 29 | 32.1 | 1.00E-07 | 1 |
| GRMZM2G063216_P03 | 44 | 66 | 44 | 71 | WRKY | 1 | 23 | 23 | 29.1 | 8.80E-07 | 1 |
| GRMZM2G063880_P01 | 96 | 155 | 96 | 156 | WRKY | 1 | 59 | 61 | 83.7 | 7.80E-24 | 1 |
| GRMZM2G065290_P01 | 72 | 131 | 71 | 132 | WRKY | 2 | 59 | 60 | 77.8 | 5.20E-22 | 1 |
| GRMZM2G070211_P01 | 287 | 343 | 286 | 344 | WRKY | 2 | 59 | 58 | 92.3 | 1.50E-26 | 1 |
| GRMZM2G071907_P01 | 213 | 269 | 212 | 270 | WRKY | 2 | 59 | 58 | 92.6 | 1.30E-26 | 1 |
| GRMZM2G071907_P03 | 200 | 256 | 199 | 257 | WRKY | 2 | 59 | 58 | 92.7 | 1.20E-26 | 1 |
| GRMZM2G073272_P01 | 249 | 305 | 248 | 306 | WRKY | 2 | 59 | 58 | 87.6 | 4.60E-25 | 1 |
| GRMZM2G076657_P01 | 228 | 284 | 228 | 284 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 2 |
| | 385 | 441 | 385 | 442 | WRKY | 1 | 59 | 59 | 87.6 | 4.70E-25 | |
| GRMZM2G076657_P02 | 228 | 284 | 228 | 284 | WRKY | 1 | 60 | 60 | 86.1 | 1.40E-24 | 2 |
| | 385 | 441 | 385 | 442 | WRKY | 1 | 59 | 59 | 87.6 | 4.50E-25 | |
| GRMZM2G083350_P01 | 280 | 337 | 279 | 337 | WRKY | 2 | 60 | 59 | 90.6 | 5.20E-26 | 1 |
| GRMZM2G083717_P01 | 192 | 249 | 191 | 249 | WRKY | 2 | 60 | 59 | 90 | 8.40E-26 | 1 |
| GRMZM2G090594_P01 | 235 | 291 | 234 | 292 | WRKY | 2 | 59 | 58 | 93.1 | 9.00E-27 | 1 |
| GRMZM2G091331_P01 | 226 | 282 | 225 | 283 | WRKY | 2 | 59 | 58 | 92.2 | 1.70E-26 | 1 |
| GRMZM2G091331_P02 | 226 | 245 | 225 | 245 | WRKY | 2 | 21 | 20 | 27.6 | 2.50E-06 | 1 |

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| GRMZM2G092694_P01 | 266 | 301 | 265 | 304 | WRKY | 2 | 37 | 36 | 55.9 | 3.60E-15 | 1 |
| GRMZM2G099593_P01 | 131 | 194 | 131 | 195 | WRKY | 1 | 59 | 64 | 81.9 | 2.70E-23 | 1 |
| GRMZM2G101405_P01 | 129 | 185 | 129 | 186 | WRKY | 1 | 59 | 59 | 84.3 | 5.10E-24 | 1 |
| GRMZM2G102583_P02 | 253 | 309 | 252 | 310 | WRKY | 2 | 59 | 58 | 91.9 | 2.00E-26 | 1 |
| GRMZM2G105140_P01 | 176 | 233 | 175 | 233 | WRKY | 2 | 60 | 59 | 79.1 | 2.10E-22 | 1 |
| GRMZM2G106560_P01 | 129 | 186 | 129 | 186 | WRKY | 1 | 60 | 61 | 94.4 | 3.50E-27 | 1 |
| GRMZM2G106560_P02 | 2 | 42 | 1 | 42 | WRKY | 18 | 60 | 44 | 55.4 | 5.30E-15 | 1 |
| GRMZM2G111354_P01 | 149 | 206 | 149 | 206 | WRKY | 1 | 60 | 60 | 91.3 | 3.30E-26 | 1 |
| GRMZM2G111711_P01 | 201 | 258 | 201 | 259 | WRKY | 1 | 59 | 59 | 86.3 | 1.20E-24 | 1 |
| GRMZM2G120320_P01 | 234 | 291 | 234 | 292 | WRKY | 1 | 59 | 59 | 87.3 | 5.90E-25 | 1 |
| GRMZM2G123387_P01 | 205 | 261 | 205 | 262 | WRKY | 1 | 59 | 59 | 86.4 | 1.10E-24 | 1 |
| GRMZM2G123387_P02 | 24 | 80 | 24 | 81 | WRKY | 1 | 59 | 59 | 89.4 | 1.30E-25 | 1 |
| GRMZM2G125653_P01 | 154 | 212 | 154 | 212 | WRKY | 1 | 60 | 60 | 87 | 7.00E-25 | 1 |
| GRMZM2G125653_P02 | 67 | 125 | 67 | 125 | WRKY | 1 | 60 | 60 | 87.8 | 3.90E-25 | 1 |
| GRMZM2G127064_P01 | 218 | 277 | 218 | 278 | WRKY | 1 | 59 | 61 | 83.7 | 7.50E-24 | 1 |
| GRMZM2G130374_P01 | 307 | 363 | 306 | 364 | WRKY | 2 | 59 | 58 | 90.7 | 4.80E-26 | 1 |
| GRMZM2G130854_P01 | 229 | 284 | 229 | 285 | WRKY | 1 | 59 | 59 | 83 | 1.30E-23 | 2 |
| | 402 | 459 | 402 | 459 | WRKY | 1 | 60 | 60 | 91.7 | 2.40E-26 | |
| GRMZM2G137802_P01 | 105 | 161 | 105 | 162 | WRKY | 1 | 59 | 59 | 86.5 | 1.00E-24 | 1 |
| GRMZM2G138683_P01 | 213 | 270 | 212 | 270 | WRKY | 2 | 60 | 59 | 90.2 | 7.00E-26 | 1 |
| GRMZM2G139815_P01 | 109 | 168 | 109 | 169 | WRKY | 1 | 59 | 61 | 93 | 9.60E-27 | 1 |
| GRMZM2G141299_P01 | 90 | 147 | 89 | 147 | WRKY | 2 | 60 | 59 | 90.4 | 6.20E-26 | 1 |
| GRMZM2G141299_P02 | 45 | 102 | 44 | 102 | WRKY | 2 | 60 | 59 | 90.8 | 4.70E-26 | 1 |
| GRMZM2G141299_P03 | 3 | 41 | 1 | 41 | WRKY | 21 | 60 | 40 | 49.9 | 2.70E-13 | 1 |
| GRMZM2G143204_P01 | 139 | 195 | 139 | 196 | WRKY | 1 | 59 | 59 | 92.1 | 1.80E-26 | 1 |
| GRMZM2G143204_P02 | 139 | 191 | 139 | 192 | WRKY | 1 | 59 | 59 | 69.9 | 1.50E-19 | 1 |
| GRMZM2G143204_P03 | 139 | 195 | 139 | 196 | WRKY | 1 | 59 | 59 | 92.1 | 1.80E-26 | 1 |
| GRMZM2G143765_P01 | 230 | 286 | 230 | 286 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 2 |
| | 387 | 444 | 387 | 444 | WRKY | 1 | 60 | 60 | 89.4 | 1.30E-25 | |
| GRMZM2G145554_P01 | 207 | 264 | 207 | 264 | WRKY | 1 | 60 | 60 | 87.7 | 4.40E-25 | 1 |
| GRMZM2G147880_P01 | 331 | 387 | 330 | 388 | WRKY | 2 | 59 | 58 | 93.1 | 8.80E-27 | 1 |
| GRMZM2G148087_P01 | 217 | 272 | 217 | 273 | WRKY | 1 | 59 | 59 | 87.8 | 3.90E-25 | 2 |
| | 384 | 441 | 384 | 441 | WRKY | 1 | 60 | 60 | 88.4 | 2.50E-25 | |
| GRMZM2G148561_P01 | 242 | 298 | 241 | 299 | WRKY | 2 | 59 | 58 | 92.4 | 1.50E-26 | 1 |
| GRMZM2G149219_P01 | 3 | 60 | 3 | 61 | WRKY | 1 | 59 | 59 | 72.3 | 2.80E-20 | 1 |
| GRMZM2G149683_P01 | 173 | 230 | 172 | 230 | WRKY | 2 | 60 | 59 | 78.2 | 3.90E-22 | 1 |
| GRMZM2G151407_P01 | 134 | 191 | 134 | 191 | WRKY | 1 | 60 | 60 | 89.8 | 9.80E-26 | 1 |
| GRMZM2G151407_P02 | 387 | 444 | 387 | 444 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | 1 |
| GRMZM2G151444_P01 | 216 | 272 | 216 | 273 | WRKY | 1 | 59 | 59 | 87.4 | 5.20E-25 | 1 |
| GRMZM2G151763_P01 | 201 | 258 | 201 | 258 | WRKY | 1 | 60 | 60 | 94.4 | 3.40E-27 | 1 |
| GRMZM2G156529_P01 | 134 | 191 | 133 | 191 | WRKY | 2 | 60 | 59 | 85.1 | 2.90E-24 | 1 |
| GRMZM2G158328_P01 | 122 | 184 | 121 | 184 | WRKY | 2 | 60 | 63 | 77.4 | 7.00E-22 | 1 |
| GRMZM2G161411_P01 | 48 | 105 | 48 | 106 | WRKY | 1 | 59 | 59 | 73.4 | 1.30E-20 | 1 |
| GRMZM2G163054_P01 | 102 | 125 | 102 | 148 | WRKY | 1 | 24 | 24 | 28.2 | 1.60E-06 | 1 |
| GRMZM2G163054_P02 | 101 | 157 | 101 | 158 | WRKY | 1 | 59 | 59 | 85 | 3.00E-24 | 1 |
| GRMZM2G163054_P03 | 144 | 166 | 144 | 189 | WRKY | 1 | 23 | 23 | 27.7 | 2.40E-06 | 1 |
| GRMZM2G163054_P04 | 102 | 158 | 102 | 159 | WRKY | 1 | 59 | 59 | 85 | 3.00E-24 | 1 |
| GRMZM2G163418_P01 | 134 | 193 | 134 | 194 | WRKY | 1 | 59 | 61 | 90.7 | 4.90E-26 | 1 |
| GRMZM2G163418_P02 | 134 | 154 | 134 | 157 | WRKY | 1 | 21 | 21 | 30 | 4.50E-07 | 1 |

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| GRMZM2G164082_P01 | 348 | 404 | 347 | 405 | WRKY | 2 | 59 | 58 | 89.9 | 9.00E-26 | 1 |
| GRMZM2G169149_P01 | 103 | 160 | 102 | 160 | WRKY | 2 | 60 | 59 | 84.5 | 4.20E-24 | 1 |
| GRMZM2G169564_P01 | 166 | 235 | 165 | 236 | WRKY | 2 | 59 | 70 | 78.1 | 4.30E-22 | 1 |
| GRMZM2G169966_P01 | 51 | 107 | 51 | 107 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 2 |
| | 229 | 286 | 229 | 286 | WRKY | 1 | 60 | 60 | 81.7 | 3.30E-23 | |
| GRMZM2G171428_P01 | 212 | 268 | 212 | 268 | WRKY | 1 | 60 | 60 | 83.9 | 6.70E-24 | 2 |
| | 381 | 438 | 381 | 438 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | |
| GRMZM2G171428_P02 | 212 | 268 | 212 | 268 | WRKY | 1 | 60 | 60 | 84.3 | 5.10E-24 | 2 |
| | 381 | 402 | 381 | 404 | WRKY | 1 | 22 | 22 | 30.6 | 2.90E-07 | |
| GRMZM2G173680_P01 | 301 | 357 | 300 | 358 | WRKY | 2 | 59 | 58 | 92.3 | 1.60E-26 | 1 |
| GRMZM2G173680_P02 | 301 | 357 | 300 | 358 | WRKY | 2 | 59 | 58 | 92.3 | 1.60E-26 | 1 |
| GRMZM2G176489_P01 | 289 | 346 | 288 | 346 | WRKY | 2 | 60 | 59 | 83.3 | 1.00E-23 | 1 |
| GRMZM2G304573_P01 | 134 | 192 | 134 | 192 | WRKY | 1 | 60 | 60 | 83.6 | 8.00E-24 | 1 |
| GRMZM2G324999_P01 | 130 | 190 | 130 | 190 | WRKY | 1 | 60 | 62 | 94.4 | 3.40E-27 | 1 |
| GRMZM2G327349_P01 | 294 | 351 | 293 | 351 | WRKY | 2 | 60 | 59 | 88.8 | 1.90E-25 | 1 |
| GRMZM2G354384_P01 | 3 | 60 | 2 | 60 | WRKY | 2 | 60 | 60 | 41.5 | 1.10E-10 | 1 |
| GRMZM2G366795_P01 | 313 | 370 | 312 | 370 | WRKY | 2 | 60 | 59 | 93.2 | 8.50E-27 | 1 |
| GRMZM2G366795_P02 | 311 | 368 | 310 | 368 | WRKY | 2 | 60 | 59 | 93.2 | 8.50E-27 | 1 |
| GRMZM2G377217_P01 | 160 | 216 | 160 | 217 | WRKY | 1 | 59 | 59 | 85.5 | 2.00E-24 | 1 |
| GRMZM2G377217_P02 | 160 | 181 | 160 | 183 | WRKY | 1 | 22 | 22 | 31.2 | 1.90E-07 | 1 |
| GRMZM2G381378_P01 | 132 | 193 | 132 | 193 | WRKY | 1 | 60 | 62 | 81 | 5.30E-23 | 1 |
| GRMZM2G382350_P01 | 53 | 112 | 52 | 113 | WRKY | 2 | 59 | 60 | 86.8 | 8.20E-25 | 1 |
| GRMZM2G383594_P01 | 210 | 267 | 209 | 267 | WRKY | 2 | 60 | 59 | 87.7 | 4.30E-25 | 1 |
| GRMZM2G391892_P01 | 2 | 30 | 1 | 31 | WRKY | 31 | 59 | 29 | 29.5 | 6.30E-07 | 1 |
| GRMZM2G398506_P01 | 174 | 230 | 174 | 230 | WRKY | 1 | 60 | 60 | 85.4 | 2.30E-24 | 2 |
| | 348 | 405 | 348 | 405 | WRKY | 1 | 60 | 60 | 92.7 | 1.20E-26 | |
| GRMZM2G398506_P02 | 230 | 286 | 230 | 286 | WRKY | 1 | 60 | 60 | 85.2 | 2.60E-24 | 2 |
| | 404 | 461 | 404 | 461 | WRKY | 1 | 60 | 60 | 92.5 | 1.30E-26 | |
| GRMZM2G400559_P01 | 162 | 234 | 161 | 235 | WRKY | 2 | 59 | 73 | 78 | 4.70E-22 | 1 |
| GRMZM2G401521_P01 | 212 | 269 | 212 | 269 | WRKY | 1 | 60 | 60 | 91.3 | 3.20E-26 | 1 |
| GRMZM2G401521_P02 | 212 | 234 | 212 | 246 | WRKY | 1 | 23 | 23 | 30.8 | 2.60E-07 | 1 |
| GRMZM2G408462_P01 | 130 | 189 | 130 | 190 | WRKY | 1 | 59 | 61 | 86.1 | 1.40E-24 | 1 |
| GRMZM2G411766_P01 | 126 | 185 | 126 | 186 | WRKY | 1 | 59 | 61 | 86.2 | 1.20E-24 | 1 |
| GRMZM2G414315_P01 | 181 | 237 | 180 | 238 | WRKY | 2 | 59 | 58 | 73.9 | 9.10E-21 | 1 |
| GRMZM2G425430_P01 | 118 | 174 | 118 | 174 | WRKY | 1 | 60 | 60 | 82.9 | 1.40E-23 | 2 |
| | 287 | 302 | 287 | 303 | WRKY | 1 | 16 | 16 | 21.1 | 0.00026 | |
| GRMZM2G432583_P01 | 125 | 185 | 125 | 186 | WRKY | 1 | 59 | 62 | 82 | 2.70E-23 | 1 |
| GRMZM2G441031_P01 | 124 | 187 | 123 | 187 | WRKY | 2 | 60 | 64 | 71.8 | 3.90E-20 | 1 |
| GRMZM2G448605_P01 | 359 | 416 | 358 | 416 | WRKY | 2 | 60 | 59 | 89.7 | 1.00E-25 | 1 |
| GRMZM2G449681_P01 | 200 | 257 | 200 | 257 | WRKY | 1 | 60 | 60 | 86.1 | 1.30E-24 | 2 |
| | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 90.7 | 5.10E-26 | |
| GRMZM2G449681_P02 | 8 | 65 | 8 | 65 | WRKY | 1 | 60 | 60 | 93.7 | 5.60E-27 | 1 |
| GRMZM2G449681_P03 | 8 | 65 | 8 | 65 | WRKY | 1 | 60 | 60 | 93.7 | 5.60E-27 | 1 |
| GRMZM2G451035_P01 | 132 | 151 | 131 | 153 | WRKY | 2 | 21 | 20 | 23.4 | 5.20E-05 | 2 |
| | 169 | 215 | 158 | 216 | WRKY | 19 | 59 | 47 | 38.8 | 7.80E-10 | |
| GRMZM2G453571_P01 | 187 | 244 | 187 | 244 | WRKY | 1 | 60 | 60 | 91.4 | 3.00E-26 | 1 |
| GRMZM2G461648_P01 | 132 | 198 | 132 | 199 | WRKY | 1 | 59 | 68 | 78.9 | 2.40E-22 | 1 |
| GRMZM2G468056_P01 | 98 | 138 | 94 | 138 | WRKY | 20 | 60 | 42 | 43.7 | 2.40E-11 | 1 |
| GRMZM2G475984_P01 | 145 | 201 | 145 | 202 | WRKY | 1 | 59 | 59 | 84.1 | 5.90E-24 | 1 |

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| GRMZM2G501775_P01 | 270 | 316 | 261 | 317 | WRKY | 18 | 59 | 47 | 37.9 | 1.50E-09 | 1 |
| GRMZM2G516301_P01 | 121 | 177 | 121 | 178 | WRKY | 1 | 59 | 59 | 83.8 | 7.30E-24 | 1 |
| GRMZM2G549512_P01 | 251 | 306 | 250 | 306 | WRKY | 2 | 60 | 59 | 79.2 | 1.90E-22 | 2 |
| | 418 | 474 | 417 | 474 | WRKY | 2 | 60 | 59 | 89.2 | 1.50E-25 | |
| GRMZM5G812272_P01 | 5 | 43 | 3 | 43 | WRKY | 20 | 60 | 41 | 50.2 | 2.20E-13 | 1 |
| GRMZM5G812272_P02 | 199 | 256 | 199 | 256 | WRKY | 1 | 60 | 60 | 93.9 | 5.10E-27 | 1 |
| GRMZM5G816457_P01 | 283 | 339 | 283 | 339 | WRKY | 1 | 60 | 60 | 82.2 | 2.20E-23 | 2 |
| | 491 | 548 | 491 | 548 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | |
| GRMZM5G816457_P02 | 283 | 339 | 283 | 339 | WRKY | 1 | 60 | 60 | 82.2 | 2.20E-23 | 2 |
| | 491 | 548 | 491 | 548 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | |
| GRMZM5G823157_P01 | 223 | 280 | 222 | 280 | WRKY | 2 | 60 | 59 | 90.2 | 7.40E-26 | 1 |
| GRMZM5G863420_P01 | 135 | 191 | 135 | 192 | WRKY | 1 | 59 | 59 | 86.4 | 1.10E-24 | 1 |
| GRMZM5G871347_P01 | 153 | 210 | 152 | 210 | WRKY | 2 | 60 | 59 | 96.8 | 6.10E-28 | 1 |
| GRMZM5G871347_P02 | 277 | 334 | 276 | 334 | WRKY | 2 | 60 | 59 | 96 | 1.10E-27 | 1 |
| GRMZM5G871347_P03 | 320 | 377 | 319 | 377 | WRKY | 2 | 60 | 59 | 95.8 | 1.20E-27 | 1 |
| GRMZM5G880069_P02 | 299 | 355 | 298 | 356 | WRKY | 2 | 59 | 58 | 92.3 | 1.60E-26 | 1 |
| GRMZM5G880069_P03 | 299 | 355 | 298 | 356 | WRKY | 2 | 59 | 58 | 92.3 | 1.60E-26 | 1 |

***Sorghum bicolor* (96 WRKYs)**

| | | | | | | | | | | | |
|---------------|------|------|------|------|------|----|----|----|------|----------|---|
| Sb01g000696.1 | 198 | 255 | 197 | 255 | WRKY | 2 | 60 | 59 | 89.9 | 8.60E-26 | 1 |
| Sb01g005070.1 | 222 | 278 | 221 | 279 | WRKY | 2 | 59 | 58 | 90.6 | 5.20E-26 | 1 |
| Sb01g007480.1 | 194 | 250 | 194 | 250 | WRKY | 1 | 60 | 60 | 79 | 2.20E-22 | 2 |
| | 318 | 375 | 318 | 375 | WRKY | 1 | 60 | 60 | 79.5 | 1.60E-22 | |
| Sb01g007570.1 | 147 | 204 | 147 | 204 | WRKY | 1 | 60 | 60 | 89.6 | 1.10E-25 | 1 |
| Sb01g008550.1 | 342 | 398 | 341 | 399 | WRKY | 2 | 59 | 58 | 93.1 | 9.10E-27 | 1 |
| Sb01g012870.1 | 3 | 60 | 3 | 61 | WRKY | 1 | 59 | 60 | 73.8 | 9.40E-21 | 1 |
| Sb01g014180.1 | 286 | 342 | 285 | 343 | WRKY | 2 | 59 | 58 | 93.2 | 8.30E-27 | 1 |
| Sb01g027770.1 | 194 | 251 | 193 | 251 | WRKY | 2 | 60 | 59 | 89.2 | 1.40E-25 | 1 |
| Sb01g032120.1 | 215 | 271 | 215 | 271 | WRKY | 1 | 60 | 60 | 83.4 | 9.60E-24 | 2 |
| | 384 | 441 | 384 | 441 | WRKY | 1 | 60 | 60 | 89 | 1.80E-25 | |
| Sb01g036180.1 | 110 | 170 | 110 | 170 | WRKY | 1 | 60 | 62 | 85.5 | 2.10E-24 | 1 |
| Sb01g036870.1 | 30 | 90 | 30 | 91 | WRKY | 1 | 59 | 61 | 87.5 | 4.80E-25 | 1 |
| Sb02g000960.1 | 175 | 213 | 169 | 213 | WRKY | 20 | 60 | 41 | 37 | 3.00E-09 | 1 |
| Sb02g008880.1 | 809 | 868 | 809 | 869 | WRKY | 1 | 59 | 61 | 52.2 | 5.20E-14 | 1 |
| Sb02g011050.1 | 16 | 73 | 15 | 73 | WRKY | 2 | 60 | 59 | 85.2 | 2.60E-24 | 1 |
| Sb02g021226.1 | 1354 | 1412 | 1354 | 1412 | WRKY | 1 | 60 | 60 | 78.5 | 3.20E-22 | 2 |
| | 1487 | 1548 | 1487 | 1548 | WRKY | 1 | 60 | 62 | 69.7 | 1.80E-19 | |
| Sb02g022280.1 | 107 | 166 | 107 | 167 | WRKY | 1 | 59 | 61 | 90.4 | 6.30E-26 | 1 |
| Sb02g022290.1 | 142 | 201 | 142 | 202 | WRKY | 1 | 59 | 61 | 91.5 | 2.80E-26 | 1 |
| Sb02g024760.1 | 167 | 225 | 167 | 225 | WRKY | 1 | 60 | 60 | 86.4 | 1.10E-24 | 1 |
| Sb02g024765.1 | 88 | 146 | 88 | 146 | WRKY | 1 | 60 | 60 | 86.4 | 1.10E-24 | 1 |
| Sb02g027950.1 | 405 | 462 | 405 | 462 | WRKY | 1 | 60 | 60 | 88.5 | 2.30E-25 | 1 |
| Sb02g037660.1 | 230 | 286 | 230 | 286 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 2 |
| | 404 | 461 | 404 | 461 | WRKY | 1 | 60 | 60 | 92.6 | 1.30E-26 | |
| Sb02g043030.1 | 126 | 186 | 126 | 186 | WRKY | 1 | 60 | 62 | 80.9 | 5.60E-23 | 1 |
| Sb03g000240.1 | 286 | 343 | 285 | 343 | WRKY | 2 | 60 | 59 | 95.4 | 1.70E-27 | 1 |
| Sb03g003360.1 | 138 | 194 | 138 | 195 | WRKY | 1 | 59 | 59 | 84.8 | 3.40E-24 | 1 |
| Sb03g003370.1 | 288 | 345 | 287 | 345 | WRKY | 2 | 60 | 59 | 89 | 1.60E-25 | 1 |
| Sb03g003640.1 | 218 | 274 | 218 | 275 | WRKY | 1 | 59 | 59 | 87.4 | 5.30E-25 | 1 |
| Sb03g011800.1 | 293 | 350 | 292 | 350 | WRKY | 2 | 60 | 59 | 88.8 | 1.90E-25 | 1 |

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|---------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Sb03g026170.1 | 138 | 195 | 138 | 195 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 1 |
| Sb03g026280.1 | 150 | 208 | 150 | 208 | WRKY | 1 | 60 | 60 | 87.6 | 4.50E-25 | 1 |
| Sb03g028440.1 | 245 | 302 | 244 | 302 | WRKY | 2 | 60 | 59 | 78.7 | 2.80E-22 | 1 |
| Sb03g028530.1 | 213 | 270 | 213 | 270 | WRKY | 1 | 60 | 60 | 88.7 | 2.10E-25 | 1 |
| Sb03g029920.1 | 144 | 203 | 144 | 204 | WRKY | 1 | 59 | 61 | 86.9 | 7.70E-25 | 1 |
| Sb03g030480.1 | 209 | 266 | 209 | 266 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | 1 |
| Sb03g032800.1 | 139 | 195 | 139 | 196 | WRKY | 1 | 59 | 59 | 82.5 | 1.90E-23 | 1 |
| Sb03g033640.1 | 95 | 151 | 94 | 152 | WRKY | 2 | 59 | 58 | 87.1 | 6.50E-25 | 1 |
| Sb03g033780.1 | 168 | 225 | 168 | 225 | WRKY | 1 | 60 | 60 | 91.1 | 3.90E-26 | 1 |
| Sb03g034670.1 | 99 | 156 | 98 | 156 | WRKY | 2 | 60 | 59 | 89.7 | 1.00E-25 | 1 |
| Sb03g038170.1 | 53 | 112 | 52 | 113 | WRKY | 2 | 59 | 60 | 87.3 | 5.80E-25 | 1 |
| Sb03g038180.1 | 68 | 127 | 67 | 128 | WRKY | 2 | 59 | 60 | 76.3 | 1.60E-21 | 1 |
| Sb03g038190.1 | 120 | 186 | 120 | 186 | WRKY | 1 | 60 | 67 | 76.8 | 1.10E-21 | 1 |
| Sb03g038200.1 | 124 | 184 | 123 | 184 | WRKY | 2 | 60 | 61 | 78 | 4.50E-22 | 1 |
| Sb03g038210.1 | 116 | 174 | 115 | 174 | WRKY | 2 | 60 | 60 | 83.1 | 1.20E-23 | 1 |
| Sb03g038510.1 | 248 | 303 | 248 | 304 | WRKY | 1 | 59 | 59 | 87.7 | 4.20E-25 | 2 |
| | 409 | 466 | 409 | 466 | WRKY | 1 | 60 | 60 | 89.7 | 1.00E-25 | |
| Sb03g039550.1 | 163 | 218 | 162 | 219 | WRKY | 2 | 59 | 58 | 89 | 1.60E-25 | 1 |
| Sb03g047350.1 | 141 | 197 | 141 | 198 | WRKY | 1 | 59 | 59 | 85.4 | 2.30E-24 | 1 |
| Sb04g005520.1 | 194 | 251 | 194 | 252 | WRKY | 1 | 59 | 59 | 87.7 | 4.30E-25 | 1 |
| Sb04g009800.1 | 171 | 227 | 170 | 228 | WRKY | 2 | 59 | 58 | 88.8 | 2.00E-25 | 1 |
| Sb04g016540.1 | 164 | 220 | 163 | 221 | WRKY | 2 | 59 | 58 | 88.6 | 2.20E-25 | 1 |
| Sb04g030930.1 | 233 | 290 | 232 | 290 | WRKY | 2 | 60 | 59 | 90.1 | 7.70E-26 | 1 |
| Sb04g033240.1 | 159 | 215 | 159 | 216 | WRKY | 1 | 59 | 59 | 85.5 | 2.00E-24 | 1 |
| Sb04g034440.1 | 319 | 377 | 319 | 377 | WRKY | 1 | 60 | 60 | 92.9 | 1.00E-26 | 1 |
| Sb05g001170.1 | 132 | 193 | 132 | 194 | WRKY | 1 | 59 | 62 | 83 | 1.30E-23 | 1 |
| Sb05g001175.1 | 25 | 69 | 19 | 70 | WRKY | 17 | 59 | 45 | 49.8 | 2.90E-13 | 1 |
| Sb05g001180.1 | 117 | 171 | 116 | 172 | WRKY | 2 | 59 | 61 | 43.7 | 2.40E-11 | 1 |
| Sb05g001200.1 | 118 | 167 | 104 | 167 | WRKY | 17 | 60 | 50 | 46 | 4.40E-12 | 1 |
| Sb05g001210.1 | 98 | 118 | 97 | 119 | WRKY | 2 | 22 | 21 | 29.5 | 6.60E-07 | 1 |
| Sb05g001220.1 | 121 | 191 | 120 | 191 | WRKY | 2 | 60 | 71 | 80 | 1.10E-22 | 1 |
| Sb05g017130.1 | 134 | 191 | 134 | 191 | WRKY | 1 | 60 | 61 | 94.3 | 3.60E-27 | 1 |
| Sb06g013835.1 | 146 | 205 | 146 | 206 | WRKY | 1 | 59 | 61 | 88.6 | 2.20E-25 | 1 |
| Sb06g019710.1 | 278 | 334 | 278 | 334 | WRKY | 1 | 60 | 60 | 82.5 | 1.80E-23 | 2 |
| | 502 | 559 | 502 | 559 | WRKY | 1 | 60 | 60 | 87.7 | 4.40E-25 | |
| Sb06g024220.1 | 169 | 225 | 169 | 226 | WRKY | 1 | 59 | 59 | 88 | 3.50E-25 | 1 |
| Sb06g027290.1 | 278 | 335 | 277 | 335 | WRKY | 2 | 60 | 59 | 89.5 | 1.20E-25 | 1 |
| Sb06g027710.1 | 232 | 288 | 231 | 289 | WRKY | 2 | 59 | 58 | 92.2 | 1.60E-26 | 1 |
| Sb07g005740.1 | 61 | 117 | 61 | 117 | WRKY | 1 | 60 | 60 | 42.7 | 4.70E-11 | 1 |
| Sb07g006230.1 | 367 | 421 | 366 | 422 | WRKY | 2 | 59 | 58 | 84.4 | 4.50E-24 | 1 |
| Sb07g006980.1 | 250 | 306 | 249 | 307 | WRKY | 2 | 59 | 58 | 94.1 | 4.40E-27 | 1 |
| Sb07g016330.1 | 254 | 309 | 253 | 309 | WRKY | 2 | 60 | 59 | 79.2 | 1.90E-22 | 2 |
| | 421 | 477 | 420 | 477 | WRKY | 2 | 60 | 59 | 89.2 | 1.50E-25 | |
| Sb07g019400.1 | 131 | 191 | 131 | 191 | WRKY | 1 | 60 | 62 | 94.1 | 4.40E-27 | 1 |
| Sb07g028430.1 | 89 | 145 | 89 | 145 | WRKY | 1 | 60 | 60 | 83 | 1.20E-23 | 2 |
| | 299 | 356 | 299 | 356 | WRKY | 1 | 60 | 60 | 89 | 1.70E-25 | |
| Sb08g002520.1 | 118 | 182 | 117 | 183 | WRKY | 2 | 59 | 65 | 81.2 | 4.70E-23 | 1 |
| Sb08g002540.1 | 104 | 152 | 94 | 152 | WRKY | 18 | 60 | 49 | 39.6 | 4.60E-10 | 1 |
| Sb08g002560.1 | 150 | 214 | 149 | 214 | WRKY | 2 | 60 | 65 | 77.9 | 5.00E-22 | 1 |

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|---------------|------|------|------|------|------|----|----|----|------|----------|---|
| Sb08g002570.1 | 96 | 160 | 95 | 160 | WRKY | 2 | 60 | 65 | 73.3 | 1.30E-20 | 1 |
| Sb08g002590.1 | 42 | 98 | 42 | 99 | WRKY | 1 | 59 | 59 | 73.1 | 1.50E-20 | 1 |
| Sb08g005080.1 | 111 | 171 | 111 | 171 | WRKY | 1 | 60 | 62 | 78.3 | 3.70E-22 | 1 |
| Sb08g016240.1 | 231 | 287 | 231 | 287 | WRKY | 1 | 60 | 60 | 85.1 | 2.80E-24 | 2 |
| | 388 | 445 | 388 | 445 | WRKY | 1 | 60 | 60 | 91 | 4.10E-26 | |
| Sb08g020270.1 | 305 | 361 | 304 | 362 | WRKY | 2 | 59 | 58 | 94 | 4.60E-27 | 1 |
| Sb08g021870.1 | 1010 | 1050 | 1002 | 1051 | WRKY | 21 | 59 | 41 | 25.9 | 8.80E-06 | 1 |
| Sb09g005700.1 | 110 | 166 | 110 | 167 | WRKY | 1 | 59 | 59 | 85.8 | 1.70E-24 | 1 |
| Sb09g010210.1 | 191 | 212 | 191 | 214 | WRKY | 1 | 22 | 22 | 29.8 | 5.10E-07 | 1 |
| Sb09g015900.1 | 218 | 275 | 218 | 275 | WRKY | 1 | 60 | 60 | 86.1 | 1.30E-24 | 2 |
| | 387 | 444 | 387 | 444 | WRKY | 1 | 60 | 60 | 89.2 | 1.50E-25 | |
| Sb09g015900.2 | 217 | 274 | 217 | 274 | WRKY | 1 | 60 | 60 | 86.1 | 1.30E-24 | 2 |
| | 386 | 443 | 386 | 443 | WRKY | 1 | 60 | 60 | 89.2 | 1.50E-25 | |
| Sb09g023270.1 | 240 | 296 | 240 | 296 | WRKY | 1 | 60 | 60 | 88.3 | 2.80E-25 | 2 |
| | 416 | 473 | 416 | 473 | WRKY | 1 | 60 | 60 | 86.7 | 8.90E-25 | |
| Sb09g023500.1 | 128 | 189 | 128 | 189 | WRKY | 1 | 60 | 62 | 68.1 | 5.90E-19 | 1 |
| Sb09g026350.1 | 155 | 212 | 155 | 212 | WRKY | 1 | 60 | 60 | 91.1 | 3.60E-26 | 1 |
| Sb09g026830.1 | 133 | 189 | 133 | 190 | WRKY | 1 | 59 | 59 | 87.5 | 4.90E-25 | 1 |
| Sb09g028660.1 | 194 | 251 | 194 | 251 | WRKY | 1 | 60 | 60 | 91.3 | 3.10E-26 | 1 |
| Sb09g028750.1 | 329 | 387 | 329 | 387 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | 1 |
| Sb09g029050.1 | 111 | 170 | 111 | 171 | WRKY | 1 | 59 | 61 | 83.4 | 9.30E-24 | 1 |
| Sb09g029810.1 | 195 | 252 | 195 | 252 | WRKY | 1 | 60 | 60 | 91.5 | 2.90E-26 | 1 |
| Sb09g029850.1 | 162 | 218 | 161 | 219 | WRKY | 2 | 59 | 58 | 74.5 | 5.50E-21 | 1 |
| Sb10g004000.1 | 131 | 191 | 131 | 191 | WRKY | 1 | 60 | 62 | 88.8 | 1.90E-25 | 1 |
| Sb10g019923.1 | 85 | 141 | 84 | 141 | WRKY | 2 | 60 | 59 | 75.2 | 3.60E-21 | 1 |
| Sb10g020010.1 | 149 | 206 | 148 | 206 | WRKY | 2 | 60 | 59 | 83.1 | 1.20E-23 | 1 |
| Sb10g025590.1 | 191 | 248 | 191 | 249 | WRKY | 1 | 59 | 59 | 88.5 | 2.30E-25 | 1 |
| Sb10g025600.1 | 189 | 246 | 189 | 247 | WRKY | 1 | 59 | 59 | 88.6 | 2.30E-25 | 1 |

Eudicots

Populus_trichocarpa (122 WRKYs)

| | | | | | | | | | | | |
|--------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| POPTR_0001s00350.1 | 244 | 300 | 243 | 301 | WRKY | 2 | 59 | 58 | 89.4 | 1.30E-25 | 1 |
| POPTR_0001s03620.1 | 164 | 222 | 164 | 222 | WRKY | 1 | 60 | 60 | 85.6 | 2.00E-24 | 1 |
| POPTR_0001s03970.1 | 36 | 90 | 36 | 91 | WRKY | 1 | 59 | 59 | 70.5 | 1.00E-19 | 1 |
| POPTR_0001s09900.1 | 158 | 214 | 157 | 215 | WRKY | 2 | 59 | 58 | 88.3 | 2.80E-25 | 1 |
| POPTR_0001s10490.1 | 131 | 190 | 131 | 191 | WRKY | 1 | 59 | 61 | 92.7 | 1.20E-26 | 1 |
| POPTR_0001s13600.1 | 84 | 104 | 84 | 104 | WRKY | 1 | 21 | 21 | 32.1 | 1.00E-07 | 1 |
| POPTR_0001s13610.1 | 28 | 66 | 20 | 66 | WRKY | 20 | 60 | 41 | 52.1 | 5.60E-14 | 1 |
| POPTR_0001s21580.1 | 263 | 317 | 263 | 317 | WRKY | 1 | 60 | 60 | 75.5 | 2.70E-21 | 1 |
| POPTR_0001s33560.1 | 107 | 164 | 107 | 164 | WRKY | 1 | 60 | 60 | 93.2 | 8.40E-27 | 1 |
| POPTR_0001s34520.1 | 170 | 227 | 170 | 227 | WRKY | 1 | 60 | 60 | 92.9 | 1.00E-26 | 1 |
| POPTR_0001s37260.1 | 213 | 269 | 213 | 269 | WRKY | 1 | 60 | 60 | 85.9 | 1.60E-24 | 2 |
| | 378 | 435 | 378 | 435 | WRKY | 1 | 60 | 60 | 91.3 | 3.30E-26 | |
| POPTR_0001s46490.1 | 209 | 266 | 208 | 266 | WRKY | 2 | 60 | 59 | 89.9 | 8.70E-26 | 1 |
| POPTR_0001s47670.1 | 313 | 367 | 311 | 367 | WRKY | 3 | 60 | 58 | 73.1 | 1.60E-20 | 2 |
| | 523 | 580 | 523 | 580 | WRKY | 1 | 60 | 60 | 87.1 | 6.60E-25 | |
| POPTR_0001s47670.2 | 313 | 367 | 311 | 367 | WRKY | 3 | 60 | 58 | 73.1 | 1.50E-20 | 2 |
| | 523 | 580 | 523 | 580 | WRKY | 1 | 60 | 60 | 85.2 | 2.60E-24 | |
| POPTR_0002s04440.1 | 285 | 342 | 284 | 342 | WRKY | 2 | 60 | 59 | 95.9 | 1.20E-27 | 1 |
| POPTR_0002s06000.1 | 182 | 239 | 182 | 239 | WRKY | 1 | 60 | 60 | 90.9 | 4.40E-26 | 1 |
| POPTR_0002s12480.1 | 286 | 342 | 285 | 343 | WRKY | 2 | 59 | 58 | 92.4 | 1.50E-26 | 1 |

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|--------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| POPTR_0002s13980.1 | 130 | 186 | 130 | 187 | WRKY | 1 | 59 | 59 | 88.5 | 2.50E-25 | 1 |
| POPTR_0002s16590.1 | 225 | 282 | 224 | 282 | WRKY | 2 | 60 | 59 | 88.3 | 2.80E-25 | 1 |
| POPTR_0002s16590.2 | 197 | 254 | 196 | 254 | WRKY | 2 | 60 | 59 | 88.5 | 2.40E-25 | 1 |
| POPTR_0002s16640.1 | 47 | 104 | 47 | 104 | WRKY | 1 | 60 | 60 | 90.7 | 4.80E-26 | 1 |
| POPTR_0002s17010.1 | 129 | 189 | 129 | 189 | WRKY | 1 | 60 | 62 | 91 | 4.00E-26 | 1 |
| POPTR_0002s18770.1 | 267 | 324 | 266 | 324 | WRKY | 2 | 60 | 59 | 91.8 | 2.30E-26 | 1 |
| POPTR_0002s19390.1 | 159 | 216 | 159 | 216 | WRKY | 1 | 60 | 60 | 93 | 9.20E-27 | 1 |
| POPTR_0002s19630.1 | 53 | 110 | 52 | 110 | WRKY | 2 | 60 | 59 | 87.9 | 3.60E-25 | 1 |
| POPTR_0002s21330.1 | 340 | 393 | 339 | 393 | WRKY | 2 | 60 | 59 | 72 | 3.40E-20 | 1 |
| POPTR_0002s22180.1 | 104 | 160 | 104 | 160 | WRKY | 1 | 60 | 60 | 80.3 | 8.70E-23 | 2 |
| | 219 | 275 | 219 | 276 | WRKY | 1 | 59 | 59 | 90.2 | 7.40E-26 | |
| POPTR_0003s11120.1 | 240 | 296 | 239 | 297 | WRKY | 2 | 59 | 58 | 93.5 | 6.40E-27 | 1 |
| POPTR_0003s13250.1 | 154 | 210 | 153 | 211 | WRKY | 2 | 59 | 58 | 84 | 5.90E-24 | 1 |
| POPTR_0003s13840.1 | 131 | 190 | 131 | 191 | WRKY | 1 | 59 | 61 | 94.5 | 3.30E-27 | 1 |
| POPTR_0003s16750.1 | 81 | 138 | 81 | 138 | WRKY | 1 | 60 | 60 | 91.5 | 2.70E-26 | 1 |
| POPTR_0003s18060.1 | 165 | 220 | 165 | 220 | WRKY | 1 | 60 | 60 | 73.1 | 1.60E-20 | 1 |
| POPTR_0003s20860.1 | 25 | 79 | 25 | 80 | WRKY | 1 | 59 | 59 | 69.4 | 2.20E-19 | 1 |
| POPTR_0004s00890.1 | 318 | 375 | 317 | 375 | WRKY | 2 | 60 | 59 | 92.3 | 1.60E-26 | 1 |
| POPTR_0004s05920.1 | 76 | 133 | 75 | 133 | WRKY | 2 | 60 | 59 | 90.2 | 7.20E-26 | 1 |
| POPTR_0004s07050.1 | 195 | 253 | 195 | 253 | WRKY | 1 | 60 | 60 | 90.2 | 7.00E-26 | 1 |
| POPTR_0004s12000.1 | 209 | 265 | 209 | 265 | WRKY | 1 | 60 | 60 | 89.8 | 9.40E-26 | 2 |
| | 369 | 426 | 369 | 426 | WRKY | 1 | 60 | 60 | 92.1 | 1.80E-26 | |
| POPTR_0005s05700.1 | 286 | 342 | 285 | 343 | WRKY | 2 | 59 | 58 | 92.2 | 1.80E-26 | 1 |
| POPTR_0005s08720.1 | 115 | 172 | 115 | 172 | WRKY | 1 | 60 | 60 | 81 | 5.40E-23 | 1 |
| POPTR_0005s08860.1 | 145 | 164 | 145 | 164 | WRKY | 1 | 20 | 20 | 26.9 | 4.10E-06 | 1 |
| POPTR_0005s08870.1 | 18 | 56 | 9 | 57 | WRKY | 19 | 59 | 41 | 54.2 | 1.30E-14 | 1 |
| POPTR_0005s18490.1 | 260 | 316 | 259 | 317 | WRKY | 2 | 59 | 58 | 92.9 | 9.90E-27 | 1 |
| POPTR_0005s22480.1 | 184 | 241 | 184 | 241 | WRKY | 1 | 60 | 60 | 91.7 | 2.30E-26 | 1 |
| POPTR_0005s24100.1 | 281 | 338 | 280 | 338 | WRKY | 2 | 60 | 59 | 95.9 | 1.10E-27 | 1 |
| POPTR_0006s07170.1 | 223 | 279 | 222 | 280 | WRKY | 2 | 59 | 58 | 91.1 | 3.80E-26 | 1 |
| POPTR_0006s08730.1 | 115 | 171 | 115 | 172 | WRKY | 1 | 59 | 59 | 88.6 | 2.20E-25 | 1 |
| POPTR_0006s10600.1 | 268 | 323 | 268 | 324 | WRKY | 1 | 59 | 59 | 85 | 3.00E-24 | 2 |
| | 430 | 487 | 430 | 487 | WRKY | 1 | 60 | 60 | 88.2 | 3.00E-25 | |
| POPTR_0006s10950.1 | 133 | 193 | 133 | 193 | WRKY | 1 | 60 | 62 | 82.8 | 1.50E-23 | 1 |
| POPTR_0006s13550.1 | 196 | 250 | 195 | 251 | WRKY | 2 | 59 | 58 | 87.9 | 3.70E-25 | 2 |
| | 395 | 451 | 394 | 451 | WRKY | 2 | 60 | 59 | 89.6 | 1.10E-25 | |
| POPTR_0006s19850.1 | 96 | 151 | 95 | 151 | WRKY | 2 | 60 | 59 | 61.6 | 6.00E-17 | 2 |
| | 282 | 304 | 281 | 307 | WRKY | 2 | 24 | 23 | 34.9 | 1.40E-08 | |
| POPTR_0006s24050.1 | 105 | 162 | 105 | 162 | WRKY | 1 | 60 | 60 | 87.8 | 4.00E-25 | 1 |
| POPTR_0006s27950.1 | 165 | 221 | 164 | 222 | WRKY | 2 | 59 | 58 | 83.6 | 8.30E-24 | 1 |
| POPTR_0006s27990.1 | 32 | 88 | 31 | 88 | WRKY | 2 | 60 | 59 | 74 | 7.90E-21 | 2 |
| | 120 | 176 | 120 | 177 | WRKY | 1 | 59 | 59 | 85.3 | 2.50E-24 | |
| POPTR_0007s06720.1 | 101 | 158 | 101 | 158 | WRKY | 1 | 60 | 60 | 78 | 4.50E-22 | 1 |
| POPTR_0007s06930.1 | 157 | 213 | 157 | 214 | WRKY | 1 | 59 | 59 | 88.8 | 2.00E-25 | 1 |
| POPTR_0007s06930.2 | 157 | 213 | 157 | 214 | WRKY | 1 | 59 | 59 | 88.8 | 2.00E-25 | 1 |
| POPTR_0007s10670.1 | 264 | 320 | 263 | 321 | WRKY | 2 | 59 | 58 | 93.4 | 7.10E-27 | 1 |
| POPTR_0007s10670.2 | 263 | 319 | 262 | 320 | WRKY | 2 | 59 | 58 | 93.4 | 7.00E-27 | 1 |
| POPTR_0008s09140.1 | 222 | 278 | 222 | 278 | WRKY | 1 | 60 | 60 | 92.3 | 1.60E-26 | 2 |
| | 391 | 448 | 391 | 448 | WRKY | 1 | 60 | 60 | 89.1 | 1.50E-25 | |

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|--------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| POPTR_0008s09360.1 | 154 | 211 | 154 | 211 | WRKY | 1 | 60 | 60 | 90 | 8.00E-26 | 1 |
| POPTR_0008s10280.1 | 216 | 273 | 216 | 273 | WRKY | 1 | 60 | 60 | 94.4 | 3.50E-27 | 1 |
| POPTR_0010s15750.1 | 223 | 280 | 223 | 280 | WRKY | 1 | 60 | 60 | 92.3 | 1.60E-26 | 1 |
| POPTR_0010s16760.1 | 154 | 211 | 154 | 211 | WRKY | 1 | 60 | 60 | 89.8 | 9.70E-26 | 1 |
| POPTR_0010s17040.1 | 223 | 279 | 223 | 279 | WRKY | 1 | 60 | 60 | 90.2 | 7.30E-26 | 2 |
| | 394 | 451 | 394 | 451 | WRKY | 1 | 60 | 60 | 91.3 | 3.30E-26 | |
| POPTR_0011s02790.1 | 185 | 242 | 185 | 242 | WRKY | 1 | 60 | 60 | 91.3 | 3.20E-26 | 1 |
| POPTR_0011s06990.1 | 76 | 133 | 75 | 133 | WRKY | 2 | 60 | 59 | 89.8 | 9.30E-26 | 1 |
| POPTR_0011s09030.1 | 209 | 265 | 209 | 265 | WRKY | 1 | 60 | 60 | 82.9 | 1.30E-23 | 2 |
| | 376 | 395 | 376 | 395 | WRKY | 1 | 20 | 20 | 25.2 | 1.40E-05 | |
| POPTR_0011s16050.1 | 231 | 288 | 230 | 288 | WRKY | 2 | 60 | 59 | 90.3 | 6.80E-26 | 1 |
| POPTR_0011s17230.1 | 310 | 366 | 310 | 366 | WRKY | 1 | 60 | 60 | 85.7 | 1.90E-24 | 2 |
| | 522 | 579 | 522 | 579 | WRKY | 1 | 60 | 60 | 87.1 | 6.50E-25 | |
| POPTR_0012s01380.1 | 134 | 193 | 134 | 194 | WRKY | 1 | 59 | 61 | 94.2 | 4.20E-27 | 1 |
| POPTR_0012s10290.1 | 100 | 157 | 100 | 157 | WRKY | 1 | 60 | 60 | 95.9 | 1.20E-27 | 1 |
| POPTR_0013s03990.1 | 287 | 343 | 286 | 344 | WRKY | 2 | 59 | 58 | 94.6 | 3.10E-27 | 1 |
| POPTR_0013s08380.1 | 156 | 212 | 156 | 212 | WRKY | 1 | 60 | 60 | 82.4 | 1.90E-23 | 2 |
| | 278 | 335 | 278 | 335 | WRKY | 1 | 60 | 60 | 88.7 | 2.10E-25 | |
| POPTR_0013s09460.1 | 173 | 233 | 173 | 233 | WRKY | 1 | 60 | 62 | 87.2 | 6.40E-25 | 1 |
| POPTR_0013s09470.1 | 132 | 192 | 132 | 192 | WRKY | 1 | 60 | 62 | 79.9 | 1.20E-22 | 1 |
| POPTR_0013s10780.1 | 9 | 48 | 6 | 48 | WRKY | 20 | 60 | 41 | 51 | 1.20E-13 | 1 |
| POPTR_0013s14960.1 | 258 | 314 | 258 | 314 | WRKY | 1 | 60 | 60 | 89.2 | 1.50E-25 | 2 |
| | 431 | 488 | 431 | 488 | WRKY | 1 | 60 | 60 | 90.1 | 7.90E-26 | |
| POPTR_0014s00690.1 | 28 | 58 | 23 | 59 | WRKY | 28 | 59 | 32 | 27.5 | 2.80E-06 | 1 |
| POPTR_0014s02420.1 | 316 | 372 | 315 | 373 | WRKY | 2 | 59 | 58 | 92.2 | 1.60E-26 | 1 |
| POPTR_0014s04890.1 | 155 | 175 | 155 | 175 | WRKY | 1 | 21 | 21 | 29.7 | 5.70E-07 | 1 |
| POPTR_0014s04900.1 | 13 | 50 | 5 | 51 | WRKY | 20 | 59 | 40 | 50.4 | 1.90E-13 | 1 |
| POPTR_0014s08600.1 | 165 | 222 | 164 | 222 | WRKY | 2 | 60 | 59 | 88.6 | 2.20E-25 | 1 |
| POPTR_0014s08600.2 | 154 | 211 | 153 | 211 | WRKY | 2 | 60 | 59 | 88.8 | 2.00E-25 | 1 |
| POPTR_0014s08640.1 | 39 | 96 | 39 | 96 | WRKY | 1 | 60 | 60 | 92.5 | 1.40E-26 | 1 |
| POPTR_0014s09190.1 | 129 | 188 | 129 | 189 | WRKY | 1 | 59 | 61 | 93.4 | 7.20E-27 | 1 |
| POPTR_0014s10750.1 | 267 | 324 | 266 | 324 | WRKY | 2 | 60 | 59 | 92.5 | 1.30E-26 | 1 |
| POPTR_0014s11350.1 | 158 | 215 | 158 | 215 | WRKY | 1 | 60 | 60 | 93.3 | 7.90E-27 | 1 |
| POPTR_0014s11490.1 | 53 | 110 | 52 | 110 | WRKY | 2 | 60 | 59 | 87.5 | 4.80E-25 | 1 |
| POPTR_0014s15320.1 | 352 | 409 | 351 | 409 | WRKY | 2 | 60 | 59 | 93.2 | 8.30E-27 | 1 |
| POPTR_0014s16220.1 | 106 | 162 | 106 | 162 | WRKY | 1 | 60 | 60 | 79.2 | 2.00E-22 | 2 |
| | 276 | 331 | 275 | 332 | WRKY | 2 | 59 | 58 | 90.2 | 7.20E-26 | |
| POPTR_0014s16220.2 | 106 | 162 | 106 | 162 | WRKY | 1 | 60 | 60 | 79.2 | 2.00E-22 | 2 |
| | 276 | 331 | 275 | 332 | WRKY | 2 | 59 | 58 | 90.2 | 7.20E-26 | |
| POPTR_0014s16220.3 | 106 | 162 | 106 | 162 | WRKY | 1 | 60 | 60 | 79.2 | 2.00E-22 | 2 |
| | 276 | 331 | 275 | 332 | WRKY | 2 | 59 | 58 | 90.2 | 7.20E-26 | |
| POPTR_0014s16220.4 | 7 | 63 | 7 | 63 | WRKY | 1 | 60 | 60 | 79.6 | 1.40E-22 | 2 |
| | 177 | 232 | 176 | 233 | WRKY | 2 | 59 | 58 | 90.7 | 5.10E-26 | |
| POPTR_0014s16220.5 | 106 | 162 | 106 | 162 | WRKY | 1 | 60 | 60 | 79.2 | 2.00E-22 | 2 |
| | 276 | 331 | 275 | 332 | WRKY | 2 | 59 | 58 | 90.2 | 7.20E-26 | |
| POPTR_0015s07530.1 | 209 | 267 | 209 | 267 | WRKY | 1 | 60 | 60 | 92.8 | 1.10E-26 | 1 |
| POPTR_0015s11130.1 | 100 | 157 | 100 | 157 | WRKY | 1 | 60 | 60 | 93.8 | 5.40E-27 | 1 |
| POPTR_0015s11130.2 | 100 | 122 | 100 | 125 | WRKY | 1 | 23 | 23 | 34.7 | 1.50E-08 | 1 |
| POPTR_0016s08440.1 | 187 | 241 | 186 | 242 | WRKY | 2 | 59 | 58 | 88.4 | 2.70E-25 | 2 |

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|--------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| | 302 | 358 | 301 | 358 | WRKY | 2 | 60 | 59 | 90.7 | 5.00E-26 | |
| POPTR_0016s08440.2 | 187 | 241 | 186 | 242 | WRKY | 2 | 59 | 58 | 88.4 | 2.70E-25 | 2 |
| | 302 | 358 | 301 | 358 | WRKY | 2 | 60 | 59 | 90.7 | 5.00E-26 | |
| POPTR_0016s10610.1 | 119 | 174 | 118 | 175 | WRKY | 2 | 59 | 58 | 88.7 | 2.20E-25 | 1 |
| POPTR_0016s13600.1 | 249 | 305 | 249 | 305 | WRKY | 1 | 60 | 60 | 89.4 | 1.20E-25 | 2 |
| | 410 | 467 | 410 | 467 | WRKY | 1 | 60 | 60 | 89.3 | 1.30E-25 | |
| POPTR_0016s14490.1 | 130 | 190 | 130 | 190 | WRKY | 1 | 60 | 62 | 80.8 | 6.20E-23 | 1 |
| POPTR_0017s00960.1 | 222 | 280 | 222 | 280 | WRKY | 1 | 60 | 60 | 90.6 | 5.50E-26 | 1 |
| POPTR_0017s09750.1 | 108 | 165 | 108 | 165 | WRKY | 1 | 60 | 60 | 91.6 | 2.60E-26 | 1 |
| POPTR_0017s11570.1 | 208 | 266 | 208 | 266 | WRKY | 1 | 60 | 60 | 90.9 | 4.20E-26 | 1 |
| POPTR_0017s12420.1 | 1 | 37 | 1 | 37 | WRKY | 22 | 60 | 39 | 46.6 | 3.00E-12 | 1 |
| POPTR_0017s12430.1 | 240 | 295 | 239 | 295 | WRKY | 2 | 60 | 59 | 90.2 | 6.90E-26 | 2 |
| | 412 | 434 | 412 | 446 | WRKY | 1 | 23 | 23 | 32.9 | 5.50E-08 | |
| POPTR_0018s02470.1 | 165 | 222 | 165 | 223 | WRKY | 1 | 59 | 59 | 88.2 | 3.00E-25 | 1 |
| POPTR_0018s02470.2 | 163 | 220 | 163 | 221 | WRKY | 1 | 59 | 59 | 88.2 | 3.00E-25 | 1 |
| POPTR_0018s02480.1 | 103 | 161 | 103 | 161 | WRKY | 1 | 60 | 60 | 82.7 | 1.50E-23 | 1 |
| POPTR_0018s02550.1 | 83 | 138 | 82 | 139 | WRKY | 2 | 59 | 58 | 73 | 1.70E-20 | 1 |
| POPTR_0018s03450.1 | 256 | 312 | 255 | 313 | WRKY | 2 | 59 | 58 | 92.6 | 1.30E-26 | 1 |
| POPTR_0018s11620.1 | 1 | 37 | 1 | 37 | WRKY | 22 | 60 | 39 | 38.3 | 1.20E-09 | 1 |
| POPTR_0018s11630.1 | 216 | 270 | 215 | 271 | WRKY | 2 | 59 | 58 | 58 | 8.30E-16 | 2 |
| | 388 | 410 | 387 | 419 | WRKY | 2 | 24 | 23 | 31.9 | 1.20E-07 | |
| POPTR_0018s11630.2 | 209 | 263 | 208 | 264 | WRKY | 2 | 59 | 58 | 58 | 8.10E-16 | 2 |
| | 381 | 403 | 380 | 412 | WRKY | 2 | 24 | 23 | 31.9 | 1.10E-07 | |
| POPTR_0018s11630.3 | 212 | 266 | 211 | 267 | WRKY | 2 | 59 | 58 | 58 | 8.20E-16 | 2 |
| | 384 | 406 | 383 | 415 | WRKY | 2 | 24 | 23 | 31.9 | 1.20E-07 | |
| POPTR_0018s13600.1 | 222 | 278 | 221 | 279 | WRKY | 2 | 59 | 58 | 91.5 | 2.90E-26 | 1 |
| POPTR_0019s08110.1 | 264 | 320 | 264 | 320 | WRKY | 1 | 60 | 60 | 80.7 | 6.80E-23 | 2 |
| | 431 | 488 | 431 | 488 | WRKY | 1 | 60 | 60 | 82.3 | 2.20E-23 | |
| POPTR_0019s08730.1 | 183 | 243 | 183 | 243 | WRKY | 1 | 60 | 62 | 89 | 1.70E-25 | 1 |
| POPTR_0019s14460.1 | 258 | 314 | 258 | 314 | WRKY | 1 | 60 | 60 | 83.7 | 7.80E-24 | 2 |
| | 433 | 490 | 433 | 490 | WRKY | 1 | 60 | 60 | 90.1 | 7.40E-26 | |
| POPTR_0021s00280.1 | 335 | 392 | 334 | 392 | WRKY | 2 | 60 | 59 | 91.6 | 2.60E-26 | 1 |
| POPTR_0810s00200.1 | 185 | 242 | 185 | 242 | WRKY | 1 | 60 | 60 | 91.4 | 3.00E-26 | 1 |

***Cucumis sativu* (88 WRKYs)**

| | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| Cucsa.000200.1 | 8 | 66 | 8 | 66 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | 2 |
| | 161 | 218 | 161 | 218 | WRKY | 1 | 60 | 60 | 83.7 | 7.60E-24 | |
| Cucsa.012940.1 | 143 | 202 | 143 | 203 | WRKY | 1 | 59 | 61 | 93.1 | 9.00E-27 | 1 |
| Cucsa.041700.1 | 331 | 387 | 331 | 387 | WRKY | 1 | 60 | 60 | 87 | 7.30E-25 | 2 |
| | 546 | 603 | 546 | 603 | WRKY | 1 | 60 | 60 | 86.8 | 8.40E-25 | |
| Cucsa.041700.2 | 331 | 387 | 331 | 387 | WRKY | 1 | 60 | 60 | 87 | 7.20E-25 | 2 |
| | 546 | 603 | 546 | 603 | WRKY | 1 | 60 | 60 | 86.8 | 8.30E-25 | |
| Cucsa.042320.1 | 210 | 266 | 210 | 266 | WRKY | 1 | 60 | 60 | 85.4 | 2.30E-24 | 2 |
| | 386 | 443 | 386 | 443 | WRKY | 1 | 60 | 60 | 90 | 8.50E-26 | |
| Cucsa.042330.2 | 138 | 194 | 138 | 194 | WRKY | 1 | 60 | 60 | 85.7 | 1.90E-24 | 2 |
| | 314 | 371 | 314 | 371 | WRKY | 1 | 60 | 60 | 90.2 | 6.90E-26 | |
| Cucsa.042340.3 | 138 | 194 | 138 | 194 | WRKY | 1 | 60 | 60 | 85.7 | 1.90E-24 | 2 |
| | 314 | 371 | 314 | 371 | WRKY | 1 | 60 | 60 | 90.2 | 6.90E-26 | |
| Cucsa.042350.4 | 210 | 266 | 210 | 266 | WRKY | 1 | 60 | 60 | 86.2 | 1.20E-24 | 1 |
| Cucsa.045040.1 | 353 | 410 | 352 | 410 | WRKY | 2 | 60 | 59 | 91.9 | 2.10E-26 | 1 |

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|----------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Cucsa.047510.1 | 116 | 172 | 116 | 173 | WRKY | 1 | 59 | 59 | 91 | 4.10E-26 | 1 |
| Cucsa.048520.1 | 261 | 318 | 260 | 318 | WRKY | 2 | 60 | 59 | 89.5 | 1.20E-25 | 1 |
| Cucsa.049620.1 | 177 | 235 | 177 | 235 | WRKY | 1 | 60 | 60 | 94.6 | 3.00E-27 | 1 |
| Cucsa.054040.1 | 91 | 147 | 91 | 148 | WRKY | 1 | 59 | 59 | 92.4 | 1.50E-26 | 1 |
| Cucsa.056150.1 | 21 | 56 | 15 | 56 | WRKY | 19 | 56 | 38 | 37.9 | 1.50E-09 | 1 |
| Cucsa.066300.1 | 159 | 215 | 159 | 216 | WRKY | 1 | 59 | 59 | 90.2 | 7.30E-26 | 1 |
| Cucsa.073190.1 | 223 | 279 | 222 | 280 | WRKY | 2 | 59 | 58 | 95.4 | 1.70E-27 | 1 |
| Cucsa.073190.2 | 222 | 278 | 221 | 279 | WRKY | 2 | 59 | 58 | 95.4 | 1.70E-27 | 1 |
| Cucsa.078810.1 | 102 | 160 | 101 | 161 | WRKY | 2 | 59 | 60 | 90.7 | 5.00E-26 | 1 |
| Cucsa.087850.1 | 50 | 107 | 50 | 107 | WRKY | 1 | 60 | 60 | 90.3 | 6.50E-26 | 1 |
| Cucsa.093390.1 | 195 | 250 | 194 | 250 | WRKY | 2 | 60 | 59 | 63.8 | 1.20E-17 | 2 |
| | 369 | 424 | 368 | 425 | WRKY | 2 | 59 | 58 | 83.8 | 7.00E-24 | |
| Cucsa.093390.2 | 194 | 249 | 193 | 249 | WRKY | 2 | 60 | 59 | 63.8 | 1.20E-17 | 2 |
| | 368 | 423 | 367 | 424 | WRKY | 2 | 59 | 58 | 83.8 | 7.00E-24 | |
| Cucsa.095090.1 | 136 | 193 | 136 | 193 | WRKY | 1 | 60 | 60 | 91 | 3.90E-26 | 1 |
| Cucsa.095090.2 | 136 | 192 | 136 | 192 | WRKY | 1 | 60 | 60 | 80.6 | 7.00E-23 | 1 |
| Cucsa.096680.1 | 54 | 111 | 53 | 111 | WRKY | 2 | 60 | 59 | 88.7 | 2.00E-25 | 1 |
| Cucsa.096680.2 | 54 | 107 | 53 | 107 | WRKY | 2 | 60 | 59 | 67.6 | 8.40E-19 | 1 |
| Cucsa.096680.3 | 9 | 66 | 8 | 66 | WRKY | 2 | 60 | 59 | 89.2 | 1.50E-25 | 1 |
| Cucsa.097890.1 | 182 | 240 | 182 | 240 | WRKY | 1 | 60 | 60 | 92.5 | 1.40E-26 | 1 |
| Cucsa.100440.1 | 112 | 168 | 112 | 168 | WRKY | 1 | 60 | 60 | 80.3 | 8.90E-23 | 2 |
| | 286 | 342 | 286 | 343 | WRKY | 1 | 59 | 59 | 92.2 | 1.70E-26 | |
| Cucsa.100440.2 | 112 | 168 | 112 | 168 | WRKY | 1 | 60 | 60 | 80.3 | 8.90E-23 | 2 |
| | 286 | 342 | 286 | 343 | WRKY | 1 | 59 | 59 | 92.2 | 1.70E-26 | |
| Cucsa.100440.3 | 112 | 168 | 112 | 168 | WRKY | 1 | 60 | 60 | 80.3 | 8.90E-23 | 2 |
| | 286 | 342 | 286 | 343 | WRKY | 1 | 59 | 59 | 92.2 | 1.70E-26 | |
| Cucsa.100440.4 | 112 | 168 | 112 | 168 | WRKY | 1 | 60 | 60 | 80.6 | 7.20E-23 | 2 |
| | 286 | 342 | 286 | 343 | WRKY | 1 | 59 | 59 | 92.5 | 1.30E-26 | |
| Cucsa.101460.1 | 163 | 219 | 163 | 220 | WRKY | 1 | 59 | 59 | 90.1 | 7.50E-26 | 1 |
| Cucsa.101530.1 | 84 | 141 | 84 | 141 | WRKY | 1 | 60 | 60 | 84 | 6.10E-24 | 1 |
| Cucsa.102600.1 | 223 | 279 | 222 | 280 | WRKY | 2 | 59 | 58 | 93.9 | 4.90E-27 | 1 |
| Cucsa.106960.1 | 140 | 196 | 139 | 197 | WRKY | 2 | 59 | 58 | 91.1 | 3.80E-26 | 1 |
| Cucsa.106970.1 | 122 | 179 | 122 | 179 | WRKY | 1 | 60 | 60 | 87.5 | 5.10E-25 | 1 |
| Cucsa.106970.2 | 122 | 175 | 122 | 175 | WRKY | 1 | 60 | 60 | 64.9 | 5.80E-18 | 1 |
| Cucsa.107310.1 | 131 | 190 | 131 | 191 | WRKY | 1 | 59 | 61 | 90.9 | 4.20E-26 | 1 |
| Cucsa.111910.1 | 233 | 289 | 233 | 289 | WRKY | 1 | 60 | 60 | 89.2 | 1.40E-25 | 2 |
| | 408 | 465 | 408 | 465 | WRKY | 1 | 60 | 60 | 89.8 | 9.30E-26 | |
| Cucsa.111910.2 | 233 | 289 | 233 | 289 | WRKY | 1 | 60 | 60 | 89.8 | 9.60E-26 | 2 |
| | 408 | 428 | 408 | 428 | WRKY | 1 | 21 | 21 | 29 | 8.90E-07 | |
| Cucsa.118200.1 | 79 | 135 | 79 | 136 | WRKY | 1 | 59 | 59 | 95.2 | 2.00E-27 | 1 |
| Cucsa.143830.1 | 121 | 183 | 121 | 183 | WRKY | 1 | 60 | 63 | 80.1 | 9.90E-23 | 1 |
| Cucsa.143830.2 | 120 | 182 | 120 | 182 | WRKY | 1 | 60 | 63 | 80.2 | 9.80E-23 | 1 |
| Cucsa.143840.1 | 159 | 219 | 159 | 219 | WRKY | 1 | 60 | 62 | 91 | 4.10E-26 | 1 |
| Cucsa.148640.1 | 197 | 254 | 196 | 254 | WRKY | 2 | 60 | 59 | 93 | 9.60E-27 | 1 |
| Cucsa.158040.1 | 233 | 289 | 233 | 289 | WRKY | 1 | 60 | 60 | 90.6 | 5.50E-26 | 2 |
| | 393 | 450 | 393 | 450 | WRKY | 1 | 60 | 60 | 89 | 1.70E-25 | |
| Cucsa.162810.1 | 146 | 204 | 146 | 204 | WRKY | 1 | 60 | 60 | 80.3 | 8.60E-23 | 1 |
| Cucsa.162820.1 | 90 | 146 | 90 | 147 | WRKY | 1 | 59 | 59 | 83.8 | 6.90E-24 | 1 |
| Cucsa.167500.1 | 198 | 255 | 197 | 255 | WRKY | 2 | 60 | 59 | 89.1 | 1.60E-25 | 1 |

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|----------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Cucsa.168370.1 | 118 | 175 | 117 | 175 | WRKY | 2 | 60 | 59 | 96.7 | 6.70E-28 | 1 |
| Cucsa.176780.1 | 171 | 226 | 171 | 227 | WRKY | 1 | 59 | 59 | 87.9 | 3.80E-25 | 2 |
| | 321 | 377 | 320 | 377 | WRKY | 2 | 60 | 59 | 88.2 | 3.00E-25 | |
| Cucsa.176780.2 | 170 | 225 | 170 | 226 | WRKY | 1 | 59 | 59 | 87.9 | 3.80E-25 | 2 |
| | 320 | 376 | 319 | 376 | WRKY | 2 | 60 | 59 | 88.2 | 2.90E-25 | |
| Cucsa.177060.1 | 123 | 182 | 123 | 183 | WRKY | 1 | 59 | 61 | 85.5 | 2.10E-24 | 1 |
| Cucsa.177230.1 | 160 | 218 | 160 | 218 | WRKY | 1 | 60 | 60 | 85.8 | 1.70E-24 | 1 |
| Cucsa.177230.2 | 109 | 167 | 109 | 167 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 1 |
| Cucsa.195730.1 | 183 | 240 | 182 | 240 | WRKY | 2 | 60 | 59 | 86.4 | 1.10E-24 | 1 |
| Cucsa.197550.1 | 268 | 326 | 268 | 326 | WRKY | 1 | 60 | 60 | 91.9 | 2.20E-26 | 1 |
| Cucsa.197550.2 | 239 | 297 | 239 | 297 | WRKY | 1 | 60 | 60 | 92 | 2.00E-26 | 1 |
| Cucsa.201710.1 | 176 | 233 | 175 | 233 | WRKY | 2 | 60 | 59 | 91.1 | 3.80E-26 | 1 |
| Cucsa.204920.1 | 150 | 207 | 150 | 207 | WRKY | 1 | 60 | 60 | 91 | 4.00E-26 | 1 |
| Cucsa.212870.1 | 78 | 134 | 77 | 135 | WRKY | 2 | 59 | 58 | 85.9 | 1.60E-24 | 1 |
| Cucsa.239590.1 | 157 | 214 | 157 | 214 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 |
| Cucsa.247040.1 | 163 | 220 | 163 | 220 | WRKY | 1 | 60 | 60 | 95.5 | 1.50E-27 | 1 |
| Cucsa.250310.1 | 170 | 226 | 170 | 227 | WRKY | 1 | 59 | 59 | 85.8 | 1.70E-24 | 1 |
| Cucsa.250350.1 | 128 | 185 | 128 | 185 | WRKY | 1 | 60 | 60 | 83.4 | 9.80E-24 | 1 |
| Cucsa.250350.2 | 128 | 148 | 128 | 148 | WRKY | 1 | 21 | 21 | 27.6 | 2.50E-06 | 1 |
| Cucsa.252440.1 | 154 | 211 | 154 | 211 | WRKY | 1 | 60 | 60 | 89.7 | 1.00E-25 | 1 |
| Cucsa.258700.1 | 160 | 217 | 159 | 217 | WRKY | 2 | 60 | 59 | 89.9 | 8.90E-26 | 1 |
| Cucsa.258730.1 | 94 | 151 | 94 | 151 | WRKY | 1 | 60 | 60 | 86.9 | 7.60E-25 | 1 |
| Cucsa.259110.1 | 129 | 188 | 129 | 189 | WRKY | 1 | 59 | 61 | 92.1 | 1.80E-26 | 1 |
| Cucsa.260060.1 | 146 | 202 | 146 | 203 | WRKY | 1 | 59 | 59 | 88.1 | 3.20E-25 | 1 |
| Cucsa.271570.1 | 168 | 225 | 168 | 226 | WRKY | 1 | 59 | 59 | 84.1 | 5.70E-24 | 1 |
| Cucsa.282040.1 | 213 | 270 | 212 | 270 | WRKY | 2 | 60 | 59 | 92.9 | 1.00E-26 | 1 |
| Cucsa.284730.1 | 199 | 255 | 199 | 255 | WRKY | 1 | 60 | 60 | 91.4 | 3.00E-26 | 2 |
| | 379 | 436 | 379 | 436 | WRKY | 1 | 60 | 60 | 91.6 | 2.60E-26 | |
| Cucsa.300610.1 | 157 | 214 | 157 | 214 | WRKY | 1 | 60 | 60 | 91.7 | 2.40E-26 | 1 |
| Cucsa.300610.2 | 157 | 214 | 157 | 214 | WRKY | 1 | 60 | 60 | 91.8 | 2.20E-26 | 1 |
| Cucsa.300610.3 | 157 | 214 | 157 | 214 | WRKY | 1 | 60 | 60 | 92.1 | 1.90E-26 | 1 |
| Cucsa.300610.4 | 69 | 116 | 68 | 116 | WRKY | 11 | 60 | 50 | 47.5 | 1.50E-12 | 1 |
| Cucsa.307270.1 | 76 | 131 | 75 | 131 | WRKY | 2 | 60 | 59 | 89 | 1.70E-25 | 2 |
| | 273 | 327 | 272 | 328 | WRKY | 3 | 59 | 57 | 80.6 | 7.10E-23 | |
| Cucsa.307270.2 | 76 | 131 | 75 | 131 | WRKY | 2 | 60 | 59 | 89 | 1.70E-25 | 2 |
| | 273 | 326 | 272 | 327 | WRKY | 3 | 59 | 57 | 70.2 | 1.30E-19 | |
| Cucsa.311060.1 | 272 | 328 | 271 | 329 | WRKY | 2 | 59 | 58 | 92.2 | 1.80E-26 | 1 |
| Cucsa.327760.1 | 152 | 209 | 152 | 209 | WRKY | 1 | 60 | 60 | 85.9 | 1.60E-24 | 1 |
| Cucsa.352410.1 | 321 | 377 | 320 | 378 | WRKY | 2 | 59 | 58 | 91.1 | 3.70E-26 | 1 |
| Cucsa.352410.2 | 320 | 376 | 319 | 377 | WRKY | 2 | 59 | 58 | 91.1 | 3.60E-26 | 1 |
| Cucsa.352410.3 | 321 | 340 | 320 | 341 | WRKY | 2 | 21 | 20 | 27.9 | 2.00E-06 | 1 |
| Cucsa.356720.1 | 80 | 135 | 80 | 136 | WRKY | 1 | 59 | 59 | 87.7 | 4.30E-25 | 2 |
| | 268 | 325 | 268 | 325 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | |
| Cucsa.388650.1 | 286 | 343 | 285 | 343 | WRKY | 2 | 60 | 59 | 94.6 | 2.90E-27 | 1 |
| Cucsa.388650.2 | 189 | 246 | 188 | 246 | WRKY | 2 | 60 | 59 | 95.4 | 1.70E-27 | 1 |

Arabidopsis thaliana (91 WRKYs)

| | | | | | | | | | | | |
|-------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| AT1G13960.1 | 229 | 285 | 229 | 285 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | 2 |
| | 409 | 466 | 409 | 466 | WRKY | 1 | 60 | 60 | 90.4 | 6.10E-26 | |
| AT1G13960.2 | 202 | 258 | 202 | 258 | WRKY | 1 | 60 | 60 | 92 | 2.00E-26 | 2 |

| | | | | | | | | | | | |
|-------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| | 382 | 439 | 382 | 439 | WRKY | 1 | 60 | 60 | 90.5 | 5.70E-26 | |
| AT1G18860.1 | 191 | 249 | 191 | 249 | WRKY | 1 | 60 | 60 | 90.6 | 5.40E-26 | 1 |
| AT1G29280.1 | 75 | 132 | 74 | 132 | WRKY | 2 | 60 | 59 | 92.7 | 1.20E-26 | 1 |
| AT1G29860.1 | 136 | 193 | 136 | 193 | WRKY | 1 | 60 | 60 | 93 | 9.50E-27 | 1 |
| AT1G30650.1 | 218 | 275 | 217 | 275 | WRKY | 2 | 60 | 59 | 90.1 | 7.50E-26 | 1 |
| AT1G55600.1 | 307 | 364 | 307 | 364 | WRKY | 1 | 60 | 60 | 80.9 | 5.80E-23 | 1 |
| AT1G62300.1 | 313 | 370 | 312 | 370 | WRKY | 2 | 60 | 59 | 94 | 4.70E-27 | 1 |
| AT1G64000.1 | 114 | 171 | 114 | 171 | WRKY | 1 | 60 | 60 | 91.5 | 2.80E-26 | 1 |
| AT1G66550.1 | 108 | 168 | 108 | 168 | WRKY | 1 | 60 | 62 | 78.6 | 2.90E-22 | 1 |
| AT1G66550.2 | 103 | 163 | 103 | 163 | WRKY | 1 | 60 | 62 | 78.7 | 2.80E-22 | 1 |
| AT1G66560.1 | 103 | 163 | 103 | 163 | WRKY | 1 | 60 | 62 | 81.4 | 3.90E-23 | 1 |
| AT1G66600.1 | 103 | 163 | 103 | 163 | WRKY | 1 | 60 | 62 | 79.6 | 1.40E-22 | 1 |
| AT1G68150.1 | 235 | 293 | 235 | 293 | WRKY | 1 | 60 | 60 | 95.7 | 1.40E-27 | 1 |
| AT1G69310.1 | 147 | 204 | 147 | 204 | WRKY | 1 | 60 | 60 | 91.7 | 2.50E-26 | 1 |
| AT1G69310.2 | 147 | 204 | 147 | 204 | WRKY | 1 | 60 | 60 | 91.7 | 2.50E-26 | 1 |
| AT1G69810.1 | 203 | 262 | 203 | 262 | WRKY | 1 | 60 | 60 | 87.1 | 6.70E-25 | 1 |
| AT1G80590.1 | 86 | 145 | 85 | 145 | WRKY | 2 | 60 | 61 | 77 | 9.60E-22 | 1 |
| AT1G80840.1 | 146 | 204 | 146 | 204 | WRKY | 1 | 60 | 60 | 81.5 | 3.80E-23 | 1 |
| AT2G03340.1 | 250 | 306 | 250 | 306 | WRKY | 1 | 60 | 60 | 90.5 | 5.80E-26 | 2 |
| | 415 | 472 | 415 | 472 | WRKY | 1 | 60 | 60 | 89 | 1.70E-25 | |
| AT2G04880.1 | 111 | 167 | 111 | 167 | WRKY | 1 | 60 | 60 | 83.6 | 8.50E-24 | 2 |
| | 307 | 363 | 307 | 364 | WRKY | 1 | 59 | 59 | 91.2 | 3.40E-26 | |
| AT2G04880.2 | 111 | 167 | 111 | 167 | WRKY | 1 | 60 | 60 | 83.7 | 7.90E-24 | 2 |
| | 283 | 339 | 283 | 340 | WRKY | 1 | 59 | 59 | 91.3 | 3.20E-26 | |
| AT2G21900.1 | 109 | 166 | 109 | 166 | WRKY | 1 | 60 | 60 | 78.1 | 4.40E-22 | 1 |
| AT2G23320.1 | 241 | 297 | 240 | 298 | WRKY | 2 | 59 | 58 | 94.2 | 3.90E-27 | 1 |
| AT2G23320.2 | 241 | 260 | 240 | 262 | WRKY | 2 | 21 | 20 | 28.9 | 1.00E-06 | 1 |
| AT2G24570.1 | 244 | 301 | 243 | 301 | WRKY | 2 | 60 | 59 | 91.9 | 2.20E-26 | 1 |
| AT2G25000.1 | 146 | 203 | 146 | 204 | WRKY | 1 | 59 | 59 | 83.6 | 8.30E-24 | 1 |
| AT2G30250.1 | 166 | 222 | 166 | 222 | WRKY | 1 | 60 | 60 | 78.5 | 3.20E-22 | 2 |
| | 329 | 385 | 328 | 385 | WRKY | 2 | 60 | 59 | 87.7 | 4.40E-25 | |
| AT2G30590.1 | 314 | 371 | 313 | 371 | WRKY | 2 | 60 | 59 | 92 | 2.00E-26 | 1 |
| AT2G34830.1 | 216 | 273 | 215 | 273 | WRKY | 2 | 60 | 59 | 89.9 | 8.80E-26 | 1 |
| AT2G37260.1 | 166 | 220 | 165 | 221 | WRKY | 2 | 59 | 58 | 86.3 | 1.20E-24 | 2 |
| | 349 | 406 | 349 | 406 | WRKY | 1 | 60 | 60 | 90.2 | 7.00E-26 | |
| AT2G37260.2 | 84 | 138 | 83 | 139 | WRKY | 2 | 59 | 58 | 86.7 | 8.70E-25 | 2 |
| | 267 | 324 | 267 | 324 | WRKY | 1 | 60 | 60 | 90.7 | 5.10E-26 | |
| AT2G38470.1 | 184 | 240 | 184 | 240 | WRKY | 1 | 60 | 60 | 87.8 | 3.90E-25 | 2 |
| | 362 | 419 | 362 | 419 | WRKY | 1 | 60 | 60 | 88.8 | 2.00E-25 | |
| AT2G40740.1 | 173 | 232 | 173 | 233 | WRKY | 1 | 59 | 61 | 87.9 | 3.80E-25 | 1 |
| AT2G40740.2 | 146 | 188 | 139 | 189 | WRKY | 18 | 59 | 44 | 50.5 | 1.80E-13 | 1 |
| AT2G40750.1 | 152 | 211 | 152 | 212 | WRKY | 1 | 59 | 61 | 85.7 | 1.80E-24 | 1 |
| AT2G44745.1 | 145 | 201 | 145 | 202 | WRKY | 1 | 59 | 59 | 88.1 | 3.20E-25 | 1 |
| AT2G46130.1 | 30 | 87 | 30 | 87 | WRKY | 1 | 60 | 60 | 91.3 | 3.30E-26 | 1 |
| AT2G46130.2 | 18 | 71 | 18 | 71 | WRKY | 1 | 60 | 60 | 70.1 | 1.30E-19 | 1 |
| AT2G46400.1 | 104 | 163 | 104 | 164 | WRKY | 1 | 59 | 61 | 80.7 | 6.50E-23 | 1 |
| AT2G47260.1 | 174 | 230 | 174 | 231 | WRKY | 1 | 59 | 59 | 90.1 | 7.70E-26 | 1 |
| AT3G01080.1 | 167 | 222 | 167 | 223 | WRKY | 1 | 59 | 59 | 86.1 | 1.30E-24 | 2 |
| | 306 | 363 | 306 | 363 | WRKY | 1 | 60 | 60 | 89.2 | 1.50E-25 | |

| | | | | | | | | | | | |
|-------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| AT3G01970.1 | 65 | 121 | 65 | 122 | WRKY | 1 | 59 | 59 | 88.5 | 2.40E-25 | 1 |
| AT3G04670.1 | 263 | 319 | 262 | 320 | WRKY | 2 | 59 | 58 | 92.5 | 1.40E-26 | 1 |
| AT3G04670.2 | 263 | 286 | 262 | 288 | WRKY | 2 | 25 | 24 | 34 | 2.60E-08 | 1 |
| AT3G32090.1 | 90 | 116 | 82 | 116 | WRKY | 33 | 60 | 28 | 21.4 | 0.00021 | 1 |
| AT3G56400.1 | 120 | 179 | 120 | 180 | WRKY | 1 | 59 | 61 | 85.4 | 2.30E-24 | 1 |
| AT3G58710.1 | 72 | 129 | 71 | 129 | WRKY | 2 | 60 | 59 | 86.4 | 1.10E-24 | 1 |
| AT3G58710.2 | 71 | 128 | 70 | 128 | WRKY | 2 | 60 | 59 | 86.4 | 1.10E-24 | 1 |
| AT3G62340.1 | 118 | 175 | 118 | 175 | WRKY | 1 | 60 | 60 | 86.7 | 9.10E-25 | 1 |
| AT4G01250.1 | 129 | 186 | 128 | 186 | WRKY | 2 | 60 | 59 | 90.2 | 7.00E-26 | 1 |
| AT4G01720.1 | 239 | 297 | 239 | 297 | WRKY | 1 | 60 | 60 | 92.3 | 1.50E-26 | 1 |
| AT4G04450.1 | 293 | 350 | 292 | 350 | WRKY | 2 | 60 | 59 | 92.2 | 1.70E-26 | 1 |
| AT4G11070.1 | 141 | 200 | 141 | 201 | WRKY | 1 | 59 | 61 | 89.7 | 1.10E-25 | 1 |
| AT4G11070.2 | 109 | 168 | 109 | 169 | WRKY | 1 | 59 | 61 | 89.9 | 8.80E-26 | 1 |
| AT4G12020.1 | 468 | 524 | 468 | 524 | WRKY | 1 | 60 | 60 | 75.7 | 2.40E-21 | 2 |
| | 641 | 661 | 641 | 663 | WRKY | 1 | 21 | 21 | 28.7 | 1.10E-06 | |
| AT4G12020.2 | 468 | 524 | 468 | 524 | WRKY | 1 | 60 | 60 | 75.6 | 2.60E-21 | 2 |
| | 641 | 661 | 641 | 663 | WRKY | 1 | 21 | 21 | 28.6 | 1.20E-06 | |
| AT4G12020.3 | 468 | 524 | 468 | 524 | WRKY | 1 | 60 | 60 | 75.6 | 2.60E-21 | 2 |
| | 641 | 661 | 641 | 663 | WRKY | 1 | 21 | 21 | 28.6 | 1.20E-06 | |
| AT4G18170.1 | 172 | 229 | 172 | 229 | WRKY | 1 | 60 | 60 | 92 | 2.00E-26 | 1 |
| AT4G22070.1 | 298 | 355 | 297 | 355 | WRKY | 2 | 60 | 59 | 93.4 | 7.30E-27 | 1 |
| AT4G23550.1 | 135 | 192 | 134 | 192 | WRKY | 2 | 60 | 59 | 89.2 | 1.50E-25 | 1 |
| AT4G23810.1 | 158 | 217 | 158 | 218 | WRKY | 1 | 59 | 61 | 89.6 | 1.10E-25 | 1 |
| AT4G24240.1 | 282 | 338 | 281 | 339 | WRKY | 2 | 59 | 58 | 90.5 | 5.80E-26 | 1 |
| AT4G26440.1 | 178 | 233 | 178 | 234 | WRKY | 1 | 59 | 59 | 84.8 | 3.50E-24 | 2 |
| | 372 | 428 | 372 | 429 | WRKY | 1 | 59 | 59 | 84.6 | 3.90E-24 | |
| AT4G26640.1 | 139 | 195 | 139 | 195 | WRKY | 1 | 60 | 60 | 85.6 | 2.00E-24 | 2 |
| | 309 | 365 | 309 | 366 | WRKY | 1 | 59 | 59 | 88.5 | 2.40E-25 | |
| AT4G26640.2 | 211 | 267 | 211 | 267 | WRKY | 1 | 60 | 60 | 85.3 | 2.40E-24 | 2 |
| | 381 | 437 | 381 | 438 | WRKY | 1 | 59 | 59 | 88.3 | 2.90E-25 | |
| AT4G30935.1 | 169 | 224 | 168 | 224 | WRKY | 2 | 60 | 59 | 62.2 | 3.90E-17 | 2 |
| | 332 | 388 | 331 | 388 | WRKY | 2 | 60 | 59 | 83.7 | 7.80E-24 | |
| AT4G31550.1 | 247 | 303 | 246 | 304 | WRKY | 2 | 59 | 58 | 93.3 | 7.60E-27 | 1 |
| AT4G31550.2 | 246 | 302 | 245 | 303 | WRKY | 2 | 59 | 58 | 93.3 | 7.60E-27 | 1 |
| AT4G31800.1 | 176 | 233 | 176 | 234 | WRKY | 1 | 59 | 59 | 84.2 | 5.30E-24 | 1 |
| AT4G31800.2 | 175 | 232 | 175 | 233 | WRKY | 1 | 59 | 59 | 84.2 | 5.30E-24 | 1 |
| AT4G39410.1 | 223 | 279 | 223 | 280 | WRKY | 1 | 59 | 59 | 87.8 | 4.10E-25 | 1 |
| AT5G01900.1 | 111 | 170 | 110 | 170 | WRKY | 2 | 60 | 61 | 79.2 | 1.90E-22 | 1 |
| AT5G07100.1 | 117 | 174 | 117 | 174 | WRKY | 1 | 60 | 60 | 84.7 | 3.80E-24 | 2 |
| | 234 | 291 | 234 | 291 | WRKY | 1 | 60 | 60 | 86.8 | 8.40E-25 | |
| AT5G07100.2 | 24 | 81 | 24 | 81 | WRKY | 1 | 60 | 60 | 85.5 | 2.00E-24 | 2 |
| | 141 | 198 | 141 | 198 | WRKY | 1 | 60 | 60 | 87.6 | 4.50E-25 | |
| AT5G13080.1 | 67 | 124 | 67 | 124 | WRKY | 1 | 60 | 60 | 91.4 | 3.00E-26 | 1 |
| AT5G15130.1 | 227 | 284 | 227 | 285 | WRKY | 1 | 59 | 59 | 93.1 | 9.10E-27 | 1 |
| AT5G22570.1 | 111 | 170 | 110 | 170 | WRKY | 2 | 60 | 61 | 74 | 8.00E-21 | 1 |
| AT5G24110.1 | 113 | 172 | 113 | 173 | WRKY | 1 | 59 | 61 | 87.4 | 5.30E-25 | 1 |
| AT5G26170.1 | 113 | 169 | 113 | 170 | WRKY | 1 | 59 | 59 | 90.4 | 6.10E-26 | 1 |
| AT5G28650.1 | 263 | 319 | 262 | 320 | WRKY | 2 | 59 | 58 | 91.5 | 2.80E-26 | 1 |
| AT5G41570.1 | 98 | 155 | 98 | 155 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 |

| | | | | | | | | | | | |
|-------------|------|------|------|------|------|---|----|----|------|----------|---|
| AT5G43290.1 | 114 | 170 | 114 | 171 | WRKY | 1 | 59 | 59 | 84.6 | 3.90E-24 | 1 |
| AT5G45050.1 | 1181 | 1238 | 1180 | 1238 | WRKY | 2 | 60 | 59 | 81.2 | 4.50E-23 | 1 |
| AT5G45050.2 | 1153 | 1210 | 1152 | 1210 | WRKY | 2 | 60 | 59 | 81.3 | 4.40E-23 | 1 |
| AT5G45260.1 | 1209 | 1268 | 1208 | 1268 | WRKY | 2 | 60 | 61 | 80.9 | 5.80E-23 | 1 |
| AT5G46350.1 | 183 | 240 | 183 | 240 | WRKY | 1 | 60 | 60 | 88.7 | 2.10E-25 | 1 |
| AT5G49520.1 | 221 | 278 | 221 | 278 | WRKY | 1 | 60 | 60 | 94.8 | 2.70E-27 | 1 |
| AT5G52830.1 | 166 | 223 | 165 | 223 | WRKY | 2 | 60 | 59 | 90.8 | 4.50E-26 | 1 |
| AT5G56270.1 | 273 | 328 | 273 | 329 | WRKY | 1 | 59 | 59 | 84.3 | 5.10E-24 | 2 |
| | 487 | 544 | 487 | 544 | WRKY | 1 | 60 | 60 | 86.7 | 8.90E-25 | |
| AT5G64810.1 | 110 | 167 | 110 | 167 | WRKY | 1 | 60 | 60 | 78.7 | 2.80E-22 | 1 |

| Basal | <i>Amborella trichopoda</i> (33WRKYs) | | | | | | | | | | | |
|-----------------------|---------------------------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Magnoliophytas | ERM93535 | 8 | 65 | 8 | 65 | WRKY | 1 | 60 | 60 | 78.6 | 3.00E-22 | 1 |
| | ERM95579 | 249 | 305 | 249 | 305 | WRKY | 1 | 60 | 60 | 89.4 | 1.20E-25 | 2 |
| | | 419 | 476 | 419 | 476 | WRKY | 1 | 60 | 60 | 89 | 1.70E-25 | |
| | ERM95680 | 193 | 247 | 192 | 248 | WRKY | 2 | 59 | 58 | 86.9 | 7.70E-25 | 2 |
| | | 388 | 445 | 388 | 445 | WRKY | 1 | 60 | 60 | 88.7 | 2.10E-25 | |
| | ERM97637 | 89 | 146 | 88 | 146 | WRKY | 2 | 60 | 59 | 90.2 | 6.90E-26 | 1 |
| | ERM99620 | 259 | 315 | 259 | 315 | WRKY | 1 | 60 | 60 | 80.5 | 7.80E-23 | 2 |
| | | 437 | 494 | 437 | 494 | WRKY | 1 | 60 | 60 | 91.9 | 2.10E-26 | |
| | ERM99929 | 139 | 196 | 139 | 196 | WRKY | 1 | 60 | 60 | 89.9 | 9.10E-26 | 1 |
| | ERN00365 | 2 | 38 | 1 | 40 | WRKY | 21 | 58 | 38 | 41.7 | 1.00E-10 | 1 |
| | ERN00368 | 235 | 290 | 234 | 292 | WRKY | 2 | 58 | 57 | 65.9 | 2.80E-18 | 1 |
| | ERN01414 | 239 | 295 | 238 | 296 | WRKY | 2 | 59 | 58 | 95.8 | 1.30E-27 | 1 |
| | ERN01868 | 199 | 255 | 199 | 255 | WRKY | 1 | 60 | 60 | 89.3 | 1.30E-25 | 2 |
| | | 415 | 472 | 415 | 472 | WRKY | 1 | 60 | 60 | 87.2 | 6.00E-25 | |
| | ERN02047 | 283 | 340 | 282 | 340 | WRKY | 2 | 60 | 59 | 91.2 | 3.60E-26 | 1 |
| | ERN02112 | 122 | 179 | 121 | 179 | WRKY | 2 | 60 | 59 | 87.6 | 4.50E-25 | 1 |
| | ERN03304 | 137 | 194 | 137 | 194 | WRKY | 1 | 60 | 60 | 91.3 | 3.30E-26 | 1 |
| | ERN03816 | 252 | 310 | 252 | 310 | WRKY | 1 | 60 | 60 | 92.2 | 1.70E-26 | 1 |
| | ERN03839 | 109 | 165 | 109 | 166 | WRKY | 1 | 59 | 59 | 84.5 | 4.30E-24 | 1 |
| | ERN03881 | 140 | 196 | 140 | 197 | WRKY | 1 | 59 | 59 | 88.2 | 3.10E-25 | 1 |
| | ERN04180 | 141 | 201 | 141 | 201 | WRKY | 1 | 60 | 62 | 86.1 | 1.40E-24 | 1 |
| | ERN04181 | 6 | 65 | 6 | 65 | WRKY | 1 | 60 | 61 | 85.8 | 1.70E-24 | 1 |
| | ERN05012 | 153 | 210 | 152 | 210 | WRKY | 2 | 60 | 59 | 89.2 | 1.50E-25 | 1 |
| | ERN05172 | 7 | 46 | 4 | 46 | WRKY | 19 | 60 | 42 | 52.4 | 4.50E-14 | 1 |
| | ERN05173 | 121 | 142 | 121 | 145 | WRKY | 1 | 22 | 22 | 34 | 2.50E-08 | 1 |
| | ERN06521 | 226 | 281 | 226 | 282 | WRKY | 1 | 59 | 59 | 86.5 | 1.00E-24 | 2 |
| | | 409 | 466 | 409 | 466 | WRKY | 1 | 60 | 60 | 88.5 | 2.50E-25 | |
| | ERN07431 | 244 | 300 | 243 | 301 | WRKY | 2 | 59 | 58 | 94.2 | 3.90E-27 | 1 |
| | ERN07935 | 111 | 167 | 111 | 168 | WRKY | 1 | 59 | 59 | 88.1 | 3.20E-25 | 1 |
| | ERN08293 | 232 | 290 | 232 | 290 | WRKY | 1 | 60 | 60 | 94.6 | 3.10E-27 | 1 |
| | ERN08862 | 266 | 323 | 265 | 323 | WRKY | 2 | 60 | 59 | 94.2 | 4.10E-27 | 1 |
| | ERN08905 | 120 | 178 | 119 | 179 | WRKY | 2 | 59 | 60 | 89.9 | 8.80E-26 | 1 |
| | ERN08906 | 120 | 178 | 119 | 179 | WRKY | 2 | 59 | 60 | 91 | 3.90E-26 | 1 |
| | ERN09907 | 74 | 93 | 74 | 95 | WRKY | 1 | 20 | 20 | 29.2 | 8.10E-07 | 1 |
| | ERN14755 | 208 | 265 | 207 | 265 | WRKY | 2 | 60 | 59 | 90.4 | 6.40E-26 | 1 |
| | ERN18679 | 147 | 205 | 147 | 205 | WRKY | 1 | 60 | 60 | 84 | 6.30E-24 | 1 |
| | ERN18680 | 113 | 170 | 112 | 170 | WRKY | 2 | 60 | 59 | 83.7 | 7.60E-24 | 1 |
| | ERN19019 | 321 | 377 | 321 | 377 | WRKY | 1 | 60 | 60 | 88.9 | 1.90E-25 | 2 |

| | 536 | 593 | 536 | 593 | WRKY | 1 | 60 | 60 | 88 | 3.50E-25 | | |
|----------------------------|---|-----|-----|-----|------|----|----|----|------|----------|---|--|
| Gymnosperms | <i>Picea sitchensis</i> (8 WRKYs) | | | | | | | | | | | |
| gi 116791126 gb ABK25866.1 | 248 | 305 | 248 | 305 | WRKY | 1 | 60 | 60 | 89.8 | 9.70E-26 | 1 | |
| gi 148905936 gb ABR16129.1 | 265 | 321 | 264 | 322 | WRKY | 2 | 59 | 58 | 93.2 | 8.10E-27 | 1 | |
| gi 148906002 gb ABR16161.1 | 481 | 538 | 481 | 538 | WRKY | 1 | 60 | 60 | 89.2 | 1.50E-25 | 2 | |
| | 284 | 338 | 283 | 339 | WRKY | 2 | 59 | 58 | 90.2 | 7.30E-26 | | |
| gi 294461775 gb ADE76446.1 | 14 | 52 | 4 | 52 | WRKY | 20 | 60 | 42 | 42.2 | 6.70E-11 | 1 | |
| gi 294463034 gb ADE77055.1 | 152 | 209 | 152 | 209 | WRKY | 1 | 60 | 60 | 93.3 | 7.60E-27 | 1 | |
| gi 294463948 gb ADE77495.1 | 274 | 330 | 273 | 331 | WRKY | 2 | 59 | 58 | 91.9 | 2.10E-26 | 1 | |
| gi 294464132 gb ADE77584.1 | 294 | 350 | 293 | 351 | WRKY | 2 | 59 | 58 | 93.3 | 7.70E-27 | 1 | |
| gi 294464637 gb ADE77827.1 | 209 | 265 | 209 | 266 | WRKY | 1 | 59 | 59 | 89.4 | 1.20E-25 | 1 | |
| Bryophytes | <i>Physcomitrella patens</i> (117 WRKYs) | | | | | | | | | | | |
| Pp3c1_40230V3.1.p | 326 | 383 | 325 | 383 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 | |
| Pp3c1_40230V3.2.p | 326 | 383 | 325 | 383 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 | |
| Pp3c1_40230V3.3.p | 326 | 383 | 325 | 383 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 | |
| Pp3c11_14240V3.1.p | 147 | 204 | 146 | 204 | WRKY | 2 | 60 | 59 | 91.3 | 3.30E-26 | 1 | |
| Pp3c11_14240V3.2.p | 147 | 204 | 146 | 204 | WRKY | 2 | 60 | 59 | 91.3 | 3.30E-26 | 1 | |
| Pp3c11_1790V3.1.p | 254 | 311 | 254 | 311 | WRKY | 1 | 60 | 60 | 83.3 | 1.00E-23 | 1 | |
| Pp3c11_1790V3.2.p | 254 | 311 | 254 | 311 | WRKY | 1 | 60 | 60 | 83.3 | 1.00E-23 | 1 | |
| Pp3c11_1840V3.1.p | 224 | 281 | 224 | 281 | WRKY | 1 | 60 | 60 | 88 | 3.50E-25 | 1 | |
| Pp3c11_1840V3.2.p | 224 | 281 | 224 | 281 | WRKY | 1 | 60 | 60 | 88 | 3.50E-25 | 1 | |
| Pp3c11_1840V3.3.p | 225 | 282 | 225 | 282 | WRKY | 1 | 60 | 60 | 88 | 3.60E-25 | 1 | |
| Pp3c11_21340V3.2.p | 176 | 196 | 175 | 207 | WRKY | 2 | 22 | 21 | 22 | 0.00014 | 1 | |
| Pp3c12_4260V3.1.p | 372 | 430 | 372 | 430 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 | |
| Pp3c12_4260V3.2.p | 372 | 430 | 372 | 430 | WRKY | 1 | 60 | 60 | 89.5 | 1.20E-25 | 1 | |
| Pp3c13_10830V3.1.p | 347 | 403 | 347 | 404 | WRKY | 1 | 59 | 59 | 88.6 | 2.30E-25 | 1 | |
| Pp3c13_10830V3.2.p | 347 | 403 | 347 | 404 | WRKY | 1 | 59 | 59 | 88.6 | 2.30E-25 | 1 | |
| Pp3c13_15520V3.1.p | 376 | 434 | 376 | 434 | WRKY | 1 | 60 | 60 | 94.5 | 3.30E-27 | 1 | |
| Pp3c13_15520V3.2.p | 376 | 434 | 376 | 434 | WRKY | 1 | 60 | 60 | 94.5 | 3.30E-27 | 1 | |
| Pp3c13_15520V3.3.p | 376 | 434 | 376 | 434 | WRKY | 1 | 60 | 60 | 94.5 | 3.30E-27 | 1 | |
| Pp3c14_11320V3.1.p | 196 | 252 | 195 | 253 | WRKY | 1 | 59 | 59 | 68.3 | 5.10E-19 | 1 | |
| Pp3c14_11320V3.2.p | 127 | 183 | 126 | 184 | WRKY | 1 | 59 | 59 | 68.6 | 3.90E-19 | 1 | |
| Pp3c14_11320V3.3.p | 196 | 252 | 195 | 253 | WRKY | 1 | 59 | 59 | 68.3 | 5.10E-19 | 1 | |
| Pp3c14_17020V3.1.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 93.6 | 6.00E-27 | 1 | |
| Pp3c14_17020V3.2.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 93.6 | 6.00E-27 | 1 | |
| Pp3c17_19970V3.1.p | 327 | 383 | 326 | 384 | WRKY | 2 | 59 | 58 | 92.6 | 1.30E-26 | 1 | |
| Pp3c17_19970V3.2.p | 327 | 383 | 326 | 384 | WRKY | 2 | 59 | 58 | 92.6 | 1.30E-26 | 1 | |
| Pp3c19_3000V3.1.p | 333 | 390 | 333 | 390 | WRKY | 1 | 60 | 60 | 88.3 | 2.70E-25 | 1 | |
| Pp3c19_3000V3.2.p | 333 | 390 | 333 | 390 | WRKY | 1 | 60 | 60 | 88.3 | 2.70E-25 | 1 | |
| Pp3c2_23590V3.1.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 2 | |
| | 551 | 608 | 551 | 608 | WRKY | 1 | 60 | 60 | 92.1 | 1.90E-26 | | |
| Pp3c2_23590V3.2.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 2 | |
| | 551 | 608 | 551 | 608 | WRKY | 1 | 60 | 60 | 92.1 | 1.90E-26 | | |
| Pp3c2_23590V3.3.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 2 | |
| | 554 | 611 | 554 | 611 | WRKY | 1 | 60 | 60 | 92.1 | 1.90E-26 | | |
| Pp3c2_23590V3.4.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 2 | |
| | 554 | 611 | 554 | 611 | WRKY | 1 | 60 | 60 | 92.1 | 1.90E-26 | | |
| Pp3c2_23590V3.5.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84.5 | 4.30E-24 | 2 | |
| | 554 | 611 | 554 | 611 | WRKY | 1 | 60 | 60 | 91.7 | 2.40E-26 | | |

| | | | | | | | | | | | |
|--------------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| Pp3c2_23590V3.6.p | 372 | 428 | 372 | 428 | WRKY | 1 | 60 | 60 | 84 | 6.00E-24 | 2 |
| | 554 | 611 | 554 | 611 | WRKY | 1 | 60 | 60 | 91.3 | 3.40E-26 | |
| Pp3c2_2510V3.1.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.2.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.3.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.4.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.5.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.6.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_2510V3.7.p | 324 | 381 | 323 | 381 | WRKY | 2 | 60 | 59 | 94.7 | 2.70E-27 | 1 |
| Pp3c2_32150V3.1.p | 177 | 234 | 177 | 234 | WRKY | 1 | 60 | 60 | 79.4 | 1.70E-22 | 1 |
| Pp3c2_32150V3.2.p | 166 | 223 | 166 | 223 | WRKY | 1 | 60 | 60 | 79.5 | 1.60E-22 | 1 |
| Pp3c2_32160V3.1.p | 192 | 249 | 192 | 249 | WRKY | 1 | 60 | 60 | 85.3 | 2.40E-24 | 1 |
| Pp3c2_32160V3.10.p | 322 | 379 | 322 | 379 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 1 |
| Pp3c2_32160V3.2.p | 68 | 125 | 68 | 125 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| Pp3c2_32160V3.3.p | 68 | 125 | 68 | 125 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| Pp3c2_32160V3.4.p | 68 | 125 | 68 | 125 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| Pp3c2_32160V3.5.p | 209 | 266 | 209 | 266 | WRKY | 1 | 60 | 60 | 85.2 | 2.50E-24 | 1 |
| Pp3c2_32160V3.6.p | 289 | 346 | 289 | 346 | WRKY | 1 | 60 | 60 | 84.9 | 3.10E-24 | 1 |
| Pp3c2_32160V3.7.p | 272 | 329 | 272 | 329 | WRKY | 1 | 60 | 60 | 85 | 3.00E-24 | 1 |
| Pp3c2_32160V3.8.p | 322 | 379 | 322 | 379 | WRKY | 1 | 60 | 60 | 84.8 | 3.40E-24 | 1 |
| Pp3c2_32160V3.9.p | 305 | 362 | 305 | 362 | WRKY | 1 | 60 | 60 | 84.9 | 3.20E-24 | 1 |
| Pp3c2_9700V3.1.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c2_9700V3.2.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c2_9700V3.3.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c2_9700V3.4.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c2_9700V3.5.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c2_9700V3.6.p | 287 | 344 | 287 | 345 | WRKY | 1 | 59 | 60 | 70.5 | 1.00E-19 | 1 |
| Pp3c20_12200V3.1.p | 340 | 396 | 340 | 397 | WRKY | 1 | 59 | 59 | 89.8 | 9.80E-26 | 1 |
| Pp3c20_12200V3.2.p | 340 | 396 | 340 | 397 | WRKY | 1 | 59 | 59 | 89.8 | 9.80E-26 | 1 |
| Pp3c20_12200V3.3.p | 340 | 396 | 340 | 397 | WRKY | 1 | 59 | 59 | 89.8 | 9.80E-26 | 1 |
| Pp3c21_11270V3.1.p | 325 | 382 | 325 | 382 | WRKY | 1 | 60 | 60 | 86.1 | 1.40E-24 | 1 |
| Pp3c21_11270V3.2.p | 325 | 382 | 325 | 382 | WRKY | 1 | 60 | 60 | 86.1 | 1.40E-24 | 1 |
| Pp3c22_12880V3.1.p | 313 | 370 | 313 | 370 | WRKY | 1 | 60 | 60 | 84.6 | 4.00E-24 | 1 |
| Pp3c23_10680V3.1.p | 333 | 389 | 333 | 390 | WRKY | 1 | 59 | 59 | 89.7 | 1.00E-25 | 1 |
| Pp3c23_10680V3.2.p | 333 | 389 | 333 | 390 | WRKY | 1 | 59 | 59 | 89.7 | 1.00E-25 | 1 |
| Pp3c24_7120V3.1.p | 333 | 389 | 333 | 390 | WRKY | 1 | 59 | 59 | 90.4 | 6.10E-26 | 1 |
| Pp3c24_7120V3.2.p | 333 | 389 | 333 | 390 | WRKY | 1 | 59 | 59 | 90.4 | 6.10E-26 | 1 |
| Pp3c26_5090V3.1.p | 388 | 445 | 388 | 445 | WRKY | 1 | 60 | 60 | 88.4 | 2.50E-25 | 1 |
| Pp3c26_5095V3.1.p | 388 | 445 | 388 | 445 | WRKY | 1 | 60 | 60 | 88.4 | 2.50E-25 | 1 |
| Pp3c27_600V3.1.p | 149 | 206 | 149 | 207 | WRKY | 1 | 59 | 60 | 69.9 | 1.50E-19 | 1 |
| Pp3c27_600V3.2.p | 149 | 206 | 149 | 207 | WRKY | 1 | 59 | 60 | 69.9 | 1.50E-19 | 1 |
| Pp3c27_600V3.3.p | 243 | 300 | 243 | 301 | WRKY | 1 | 59 | 60 | 69.5 | 2.10E-19 | 1 |
| Pp3c27_600V3.4.p | 271 | 328 | 271 | 329 | WRKY | 1 | 59 | 60 | 69.3 | 2.30E-19 | 1 |
| Pp3c27_600V3.5.p | 271 | 328 | 271 | 329 | WRKY | 1 | 59 | 60 | 69.3 | 2.30E-19 | 1 |
| Pp3c3_15040V3.1.p | 251 | 308 | 251 | 308 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 1 |
| Pp3c3_15040V3.2.p | 251 | 308 | 251 | 308 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 1 |
| Pp3c3_15040V3.3.p | 251 | 308 | 251 | 308 | WRKY | 1 | 60 | 60 | 86.2 | 1.30E-24 | 1 |
| Pp3c3_15040V3.4.p | 311 | 368 | 311 | 368 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| Pp3c3_15040V3.5.p | 311 | 368 | 311 | 368 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |

| | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|------|----|----|----|------|----------|---|
| Pp3c3_15040V3.6.p | 311 | 368 | 311 | 368 | WRKY | 1 | 60 | 60 | 86 | 1.50E-24 | 1 |
| Pp3c3_15040V3.7.p | 357 | 414 | 357 | 414 | WRKY | 1 | 60 | 60 | 85.9 | 1.60E-24 | 1 |
| Pp3c3_21440V3.1.p | 369 | 427 | 369 | 427 | WRKY | 1 | 60 | 60 | 93.3 | 7.80E-27 | 1 |
| Pp3c3_21440V3.2.p | 369 | 427 | 369 | 427 | WRKY | 1 | 60 | 60 | 93.3 | 7.80E-27 | 1 |
| Pp3c3_27940V3.1.p | 329 | 385 | 329 | 385 | WRKY | 1 | 60 | 60 | 89.3 | 1.40E-25 | 2 |
| | 492 | 549 | 492 | 549 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | |
| Pp3c3_27940V3.2.p | 329 | 385 | 329 | 385 | WRKY | 1 | 60 | 60 | 89.3 | 1.40E-25 | 2 |
| | 492 | 549 | 492 | 549 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | |
| Pp3c3_27940V3.3.p | 329 | 385 | 329 | 385 | WRKY | 1 | 60 | 60 | 89.3 | 1.40E-25 | 2 |
| | 492 | 549 | 492 | 549 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | |
| Pp3c3_27940V3.4.p | 329 | 385 | 329 | 385 | WRKY | 1 | 60 | 60 | 89.3 | 1.40E-25 | 2 |
| | 492 | 549 | 492 | 549 | WRKY | 1 | 60 | 60 | 88.6 | 2.20E-25 | |
| Pp3c3_32860V3.1.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_32860V3.2.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_32860V3.3.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_32860V3.4.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_32860V3.5.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_32860V3.6.p | 365 | 422 | 365 | 422 | WRKY | 1 | 60 | 60 | 85.5 | 2.10E-24 | 1 |
| Pp3c3_8830V3.1.p | 353 | 409 | 353 | 410 | WRKY | 1 | 59 | 59 | 85.6 | 2.00E-24 | 1 |
| Pp3c3_8830V3.2.p | 353 | 409 | 353 | 410 | WRKY | 1 | 59 | 59 | 85.6 | 2.00E-24 | 1 |
| Pp3c4_15559V3.1.p | 367 | 424 | 367 | 425 | WRKY | 1 | 59 | 59 | 89.8 | 9.30E-26 | 1 |
| Pp3c4_26880V3.1.p | 334 | 390 | 334 | 391 | WRKY | 1 | 59 | 59 | 88.4 | 2.50E-25 | 1 |
| Pp3c4_26880V3.2.p | 334 | 390 | 334 | 391 | WRKY | 1 | 59 | 59 | 88.4 | 2.50E-25 | 1 |
| Pp3c4_26880V3.3.p | 334 | 390 | 334 | 391 | WRKY | 1 | 59 | 59 | 88.3 | 2.70E-25 | 1 |
| Pp3c4_26880V3.4.p | 437 | 493 | 437 | 494 | WRKY | 1 | 59 | 59 | 88 | 3.40E-25 | 1 |
| Pp3c5_12130V3.1.p | 349 | 406 | 349 | 407 | WRKY | 1 | 59 | 60 | 70 | 1.50E-19 | 1 |
| Pp3c5_12130V3.2.p | 148 | 205 | 148 | 206 | WRKY | 1 | 59 | 60 | 70.9 | 7.70E-20 | 1 |
| Pp3c6_14470V3.1.p | 343 | 400 | 343 | 401 | WRKY | 1 | 59 | 60 | 67.9 | 6.50E-19 | 1 |
| Pp3c6_14470V3.2.p | 144 | 201 | 144 | 202 | WRKY | 1 | 59 | 60 | 69 | 3.00E-19 | 1 |
| Pp3c6_14470V3.3.p | 144 | 201 | 144 | 202 | WRKY | 1 | 59 | 60 | 68.9 | 3.10E-19 | 1 |
| Pp3c7_18860V3.1.p | 167 | 246 | 167 | 246 | WRKY | 1 | 60 | 85 | 48.6 | 6.80E-13 | 1 |
| Pp3c7_24490V3.1.p | 216 | 273 | 216 | 273 | WRKY | 1 | 60 | 60 | 87.2 | 6.10E-25 | 1 |
| Pp3c7_24490V3.2.p | 216 | 273 | 216 | 273 | WRKY | 1 | 60 | 60 | 87.2 | 6.10E-25 | 1 |
| Pp3c7_7550V3.1.p | 316 | 372 | 315 | 373 | WRKY | 2 | 59 | 58 | 91.6 | 2.60E-26 | 1 |
| Pp3c7_7550V3.2.p | 290 | 330 | 280 | 331 | WRKY | 18 | 59 | 42 | 47.3 | 1.70E-12 | 1 |
| Pp3c7_7550V3.3.p | 316 | 372 | 315 | 373 | WRKY | 2 | 59 | 58 | 91.6 | 2.60E-26 | 1 |
| Pp3c8_4400V3.1.p | 351 | 407 | 351 | 407 | WRKY | 1 | 60 | 60 | 89.6 | 1.10E-25 | 2 |
| | 514 | 571 | 514 | 571 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| Pp3c8_4400V3.2.p | 351 | 407 | 351 | 407 | WRKY | 1 | 60 | 60 | 89.6 | 1.10E-25 | 2 |
| | 514 | 571 | 514 | 571 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| Pp3c8_4400V3.3.p | 351 | 407 | 351 | 407 | WRKY | 1 | 60 | 60 | 89.6 | 1.10E-25 | 2 |
| | 514 | 571 | 514 | 571 | WRKY | 1 | 60 | 60 | 88.6 | 2.30E-25 | |
| Pp3c8_5110V3.1.p | 372 | 429 | 372 | 429 | WRKY | 1 | 60 | 60 | 85.8 | 1.70E-24 | 1 |
| Pp3c8_5110V3.2.p | 454 | 511 | 454 | 511 | WRKY | 1 | 60 | 60 | 85.6 | 2.00E-24 | 1 |

Lycophytes

***Selaginella moellendorffii* (35 WRKYs)**

| | | | | | | | | | | | |
|----------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| EFJ04574 | 31 | 87 | 31 | 87 | WRKY | 1 | 59 | 59 | 95.5 | 1.60E-27 | 1 |
| EFJ07462 | 109 | 165 | 109 | 165 | WRKY | 1 | 60 | 60 | 92.9 | 1.00E-26 | 2 |
| | 225 | 282 | 225 | 282 | WRKY | 1 | 60 | 60 | 92.5 | 1.40E-26 | |
| EFJ08874 | 1 | 55 | 1 | 56 | WRKY | 2 | 59 | 58 | 81.5 | 3.60E-23 | 2 |

| | | | | | | | | | | | |
|----------|-----|-----|-----|-----|------|---|----|----|-------|----------|---|
| | 117 | 173 | 117 | 174 | WRKY | 1 | 59 | 59 | 93.2 | 8.10E-27 | |
| EFJ09535 | 25 | 82 | 24 | 82 | WRKY | 2 | 60 | 59 | 95.4 | 1.70E-27 | 1 |
| EFJ10059 | 25 | 81 | 25 | 81 | WRKY | 1 | 59 | 59 | 92.2 | 1.70E-26 | 1 |
| EFJ10090 | 2 | 60 | 2 | 60 | WRKY | 1 | 60 | 60 | 101.9 | 1.60E-29 | 1 |
| EFJ11950 | 1 | 55 | 1 | 56 | WRKY | 2 | 59 | 58 | 81.3 | 4.40E-23 | 2 |
| | 117 | 173 | 117 | 174 | WRKY | 1 | 59 | 59 | 92.9 | 9.90E-27 | |
| EFJ14690 | 34 | 90 | 34 | 90 | WRKY | 1 | 59 | 59 | 93.6 | 6.30E-27 | 1 |
| EFJ17667 | 2 | 60 | 2 | 60 | WRKY | 1 | 60 | 60 | 98.7 | 1.50E-28 | 1 |
| EFJ18006 | 4 | 64 | 4 | 64 | WRKY | 1 | 60 | 62 | 96.2 | 9.40E-28 | 1 |
| EFJ20023 | 109 | 165 | 109 | 165 | WRKY | 1 | 60 | 60 | 92.9 | 1.00E-26 | 2 |
| | 225 | 282 | 225 | 282 | WRKY | 1 | 60 | 60 | 92.5 | 1.40E-26 | |
| EFJ20390 | 229 | 286 | 229 | 287 | WRKY | 1 | 59 | 59 | 92.8 | 1.10E-26 | 1 |
| EFJ20410 | 25 | 59 | 24 | 59 | WRKY | 2 | 36 | 35 | 60.1 | 1.80E-16 | 1 |
| EFJ20540 | 6 | 47 | 3 | 55 | WRKY | 4 | 46 | 43 | 46.3 | 3.60E-12 | 1 |
| EFJ21694 | 1 | 61 | 1 | 61 | WRKY | 1 | 60 | 62 | 92.3 | 1.50E-26 | 1 |
| EFJ23533 | 11 | 68 | 11 | 68 | WRKY | 1 | 60 | 60 | 94.3 | 3.80E-27 | 1 |
| EFJ25033 | 4 | 60 | 4 | 60 | WRKY | 1 | 60 | 60 | 97.3 | 4.40E-28 | 2 |
| | 111 | 168 | 111 | 168 | WRKY | 1 | 60 | 60 | 94.6 | 2.90E-27 | |
| EFJ26352 | 24 | 80 | 24 | 80 | WRKY | 1 | 59 | 59 | 94.1 | 4.40E-27 | 1 |
| EFJ28376 | 229 | 286 | 229 | 287 | WRKY | 1 | 59 | 59 | 92.8 | 1.10E-26 | 1 |
| EFJ28396 | 25 | 59 | 24 | 59 | WRKY | 2 | 36 | 35 | 60.1 | 1.80E-16 | 1 |
| EFJ28608 | 22 | 51 | 21 | 51 | WRKY | 7 | 36 | 30 | 45.8 | 5.30E-12 | 1 |
| EFJ29133 | 2 | 60 | 2 | 60 | WRKY | 1 | 60 | 60 | 98.7 | 1.50E-28 | 1 |
| EFJ30009 | 102 | 158 | 102 | 158 | WRKY | 1 | 60 | 60 | 96.1 | 1.00E-27 | 2 |
| | 209 | 266 | 209 | 266 | WRKY | 1 | 60 | 60 | 93.5 | 6.80E-27 | |
| EFJ31066 | 25 | 59 | 24 | 59 | WRKY | 2 | 36 | 35 | 60.1 | 1.80E-16 | 1 |
| EFJ31448 | 31 | 87 | 31 | 87 | WRKY | 1 | 59 | 59 | 95.5 | 1.60E-27 | 1 |
| EFJ33848 | 1 | 61 | 1 | 61 | WRKY | 1 | 60 | 62 | 94.1 | 4.30E-27 | 1 |
| EFJ33984 | 1 | 54 | 1 | 54 | WRKY | 6 | 60 | 55 | 86.6 | 9.70E-25 | 1 |
| EFJ34648 | 25 | 59 | 24 | 59 | WRKY | 2 | 36 | 35 | 60.1 | 1.80E-16 | 1 |
| EFJ34797 | 5 | 60 | 5 | 61 | WRKY | 1 | 59 | 59 | 88.1 | 3.20E-25 | 2 |
| | 174 | 231 | 174 | 231 | WRKY | 1 | 60 | 60 | 89.9 | 8.60E-26 | |
| EFJ34902 | 2 | 60 | 2 | 60 | WRKY | 1 | 60 | 60 | 101.9 | 1.60E-29 | 1 |
| EFJ34931 | 26 | 82 | 26 | 82 | WRKY | 1 | 59 | 59 | 92.1 | 1.80E-26 | 1 |
| EFJ36328 | 25 | 82 | 24 | 82 | WRKY | 2 | 60 | 59 | 95.4 | 1.70E-27 | 1 |
| EFJ37089 | 4 | 64 | 4 | 64 | WRKY | 1 | 60 | 62 | 96.2 | 9.40E-28 | 1 |
| EFJ37492 | 1 | 54 | 1 | 54 | WRKY | 6 | 60 | 55 | 86.6 | 9.70E-25 | 1 |
| EFJ38698 | 31 | 87 | 31 | 87 | WRKY | 1 | 59 | 59 | 95.5 | 1.60E-27 | 1 |

Chlorophytes

Ostreococcus lucimarinu (2 WRKYs)

| | | | | | | | | | | | |
|----------|----|-----|----|-----|------|---|----|----|------|----------|---|
| ABO97433 | 27 | 88 | 27 | 89 | WRKY | 1 | 59 | 65 | 60.3 | 1.60E-16 | 1 |
| ABO98812 | 46 | 104 | 45 | 105 | WRKY | 2 | 59 | 60 | 85 | 3.00E-24 | 1 |

Ostreococcus tauri (6 WRKYs)

| | | | | | | | | | | | |
|---------------------------------|-----|-----|-----|-----|------|---|----|----|------|----------|---|
| gi 116059246 emb CAL54953.1 | 23 | 83 | 23 | 83 | WRKY | 1 | 60 | 64 | 72.8 | 1.90E-20 | 1 |
| gi 308806431 ref XP_003080527.1 | 82 | 139 | 82 | 140 | WRKY | 1 | 55 | 61 | 58.6 | 5.20E-16 | 1 |
| gi 308806948 ref XP_003080785.1 | 23 | 83 | 23 | 83 | WRKY | 1 | 60 | 64 | 72.8 | 1.90E-20 | 1 |
| gi 308809517 ref XP_003082068.1 | 31 | 94 | 31 | 94 | WRKY | 1 | 60 | 65 | 84.5 | 4.20E-24 | 1 |
| gi 693497948 emb CEF99688.1 | 31 | 94 | 31 | 94 | WRKY | 1 | 60 | 65 | 84.4 | 4.50E-24 | 1 |
| gi 693499331 emb CEF98869.1 | 141 | 198 | 141 | 199 | WRKY | 1 | 55 | 61 | 57.9 | 8.90E-16 | 1 |

Micromonas pusilla CCMP1545 (2 WRKYs)

| | | | | | | | | | | | |
|---|------|------|------|------|------|---|----|----|------|----------|---|
| 50253 | 67 | 119 | 67 | 122 | WRKY | 1 | 55 | 55 | 76.2 | 1.70E-21 | 1 |
| 62997 | 5 | 60 | 5 | 60 | WRKY | 1 | 60 | 60 | 85.4 | 2.20E-24 | 1 |
| <i>Volvox carteri</i> (4 WRKYs) | | | | | | | | | | | |
| Vocar.0001s1791.1.p | 122 | 178 | 121 | 178 | WRKY | 2 | 60 | 59 | 80.3 | 8.60E-23 | 2 |
| | 357 | 414 | 357 | 414 | WRKY | 1 | 60 | 60 | 91.1 | 3.80E-26 | |
| Vocar.0001s1791.2.p | 121 | 177 | 120 | 177 | WRKY | 2 | 60 | 59 | 80.3 | 8.60E-23 | 2 |
| | 356 | 413 | 356 | 413 | WRKY | 1 | 60 | 60 | 91.1 | 3.80E-26 | |
| Vocar.0058s0025.1.p | 1129 | 1165 | 1127 | 1204 | WRKY | 3 | 42 | 40 | 31.8 | 1.20E-07 | 1 |
| Vocar.0072s0004.1.p | 1230 | 1264 | 1228 | 1269 | WRKY | 3 | 40 | 38 | 29.9 | 4.80E-07 | 1 |
| <i>Coccomyxa subellipsoidea C_169</i> (1 WRKY) | | | | | | | | | | | |
| 8449 | 2 | 58 | 2 | 59 | WRKY | 1 | 59 | 59 | 74.6 | 5.40E-21 | 1 |