**APPENDIX S3**. Description of the loci from the GoFlag 451 probe set.a

| **Locus** | **Total reads** | **Samples** | **Ave. target region length (bp)** | **Alignment length (bp)** | **% Missing data** | **Variable sites** | **Parsimony informative sites** | **% GC** | **GoFlag 408 probes** | **353 gene** | **Wolf et al. probes** | **Liu et al. probes** | **1KP locus** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 345242 | 131 | 178 | 200 | 11.0 | 161 | 152 | 46.0 | Yes | Yes | No | No | L4471\_0 |
| 2 | 232182 | 129 | 138.8 | 176 | 21.1 | 123 | 111 | 43.3 | Yes | No | No | No | L4519\_1 |
| 3 | 333396 | 143 | 119.1 | 196 | 39.2 | 94 | 84 | 50.2 | Yes | No | No | No | L4519\_3 |
| 4 | 320547 | 143 | 131.8 | 138 | 4.5 | 98 | 88 | 47.1 | Yes | No | No | No | L4519\_6 |
| 5 | 347704 | 130 | 131.9 | 151 | 12.6 | 107 | 94 | 46.9 | Yes | No | No | No | L4519\_7 |
| 6 | 315847 | 131 | 133.5 | 135 | 1.1 | 106 | 100 | 47.9 | Yes | No | No | No | L4519\_8 |
| 7 | 803488 | 154 | 347.2 | 389 | 10.7 | 274 | 240 | 52.2 | Yes | Yes | No | No | L4527\_0 |
| 8 | 499663 | 157 | 166.9 | 168 | 0.7 | 137 | 123 | 45.9 | Yes | No | No | No | L4603\_1 |
| 9 | 817557 | 157 | 328.3 | 384 | 14.5 | 317 | 290 | 45.1 | Yes | No | No | No | L4603\_2 |
| 10 | 667084 | 165 | 238.7 | 307 | 22.2 | 252 | 239 | 47.0 | Yes | No | No | No | L4603\_4 |
| 11 | 752448 | 163 | 242.3 | 246 | 1.5 | 159 | 148 | 48.2 | Yes | Yes | No | No | L4691\_0 |
| 12 | 516353 | 169 | 241.6 | 260 | 7.1 | 177 | 155 | 47.2 | Yes | Yes | No | No | L4724\_0 |
| 13 | 29575 | 13 | 423.5 | 428 | 1.0 | 221 | 132 | 39.1 | Yes\* | Yes | No | No | L4744\_0 |
| 14 | 445531 | 145 | 177.1 | 192 | 7.7 | 166 | 150 | 42.9 | Yes | Yes | Yes | No | L4744\_3 |
| 15 | 506243 | 157 | 148.9 | 152 | 2.0 | 102 | 88 | 48.8 | Yes | Yes | No | No | L4757\_1 |
| 16 | 476627 | 149 | 171.3 | 180 | 4.8 | 135 | 130 | 44.3 | Yes | Yes | No | No | L4757\_2 |
| 17 | 609538 | 163 | 156 | 173 | 9.8 | 132 | 112 | 51.3 | Yes | Yes | No | No | L4793\_3 |
| 18 | 769580 | 156 | 245.6 | 371 | 33.8 | 217 | 203 | 47.3 | Yes | Yes | No | No | L4793\_7 |
| 19 | 428698 | 149 | 177.6 | 201 | 11.7 | 168 | 157 | 44.7 | Yes | Yes | No | No | L4796\_1 |
| 20 | 646566 | 163 | 223.2 | 437 | 48.9 | 295 | 256 | 53.2 | Yes | Yes | No | No | L4802\_0 |
| 21 | 298313 | 151 | 223.8 | 228 | 1.8 | 171 | 152 | 55.5 | Yes | Yes | No | No | L4806\_0 |
| 23 | 651466 | 164 | 259.5 | 296 | 12.3 | 236 | 215 | 49.9 | Yes | Yes | No | No | L4848\_1 |
| 24 | 1069064 | 169 | 282.8 | 300 | 5.7 | 238 | 220 | 47.7 | Yes | Yes | No | No | L4848\_5 |
| 25 | 321200 | 148 | 145.6 | 161 | 9.5 | 126 | 115 | 45.2 | Yes | Yes | No | No | L4889\_1 |
| 26 | 336581 | 150 | 118.7 | 125 | 5.0 | 89 | 80 | 42.0 | Yes | Yes | No | No | L4889\_2 |
| 27 | 292417 | 138 | 151.3 | 172 | 12.1 | 131 | 124 | 43.6 | Yes\* | Yes | No | No | L4889\_3 |
| 28 | 247938 | 140 | 137 | 141 | 2.8 | 107 | 99 | 47.0 | Yes | Yes | No | No | L4890\_0 |
| 29 | 301034 | 146 | 143.8 | 145 | 0.8 | 93 | 86 | 45.4 | Yes | Yes | No | No | L4893\_0 |
| 30 | 302772 | 150 | 140.2 | 147 | 4.6 | 115 | 107 | 44.5 | Yes | Yes | No | No | L4893\_1 |
| 31 | 1055685 | 160 | 449.4 | 487 | 7.7 | 340 | 308 | 47.4 | Yes | Yes | No | No | L4932\_0 |
| 32 | 932487 | 149 | 167 | 171 | 2.3 | 118 | 109 | 40.8 | Yes | Yes | No | No | L4932\_1 |
| 33 | 791928 | 164 | 221.4 | 255 | 13.2 | 180 | 168 | 52.1 | Yes | Yes | No | No | L4942\_0 |
| 34 | 355864 | 156 | 161.8 | 175 | 7.5 | 118 | 109 | 44.8 | Yes | Yes | No | No | L4942\_1 |
| 35 | 856084 | 150 | 254.8 | 379 | 32.8 | 240 | 201 | 52.3 | Yes | Yes | No | No | L4951\_0 |
| 36 | 975191 | 165 | 203.3 | 212 | 4.1 | 131 | 120 | 46.1 | Yes | Yes | No | No | L4951\_1 |
| 37 | 129900 | 101 | 139.9 | 141 | 0.8 | 127 | 115 | 52.6 | Yes | No | No | No | L4976\_2 |
| 38 | 377808 | 152 | 119.5 | 121 | 1.2 | 88 | 76 | 47.4 | Yes | Yes | No | No | L4989\_1 |
| 39 | 413538 | 160 | 147.1 | 158 | 6.9 | 100 | 94 | 44.5 | Yes | Yes | No | No | L4989\_3 |
| 40 | 369787 | 138 | 157.1 | 161 | 2.4 | 133 | 125 | 41.1 | Yes | Yes | No | No | L4992\_1 |
| 41 | 223936 | 123 | 143.1 | 147 | 2.7 | 119 | 107 | 44.5 | Yes | Yes | No | No | L4992\_12 |
| 42 | 217629 | 127 | 140.6 | 145 | 3.1 | 122 | 109 | 41.6 | Yes | Yes | No | No | L4992\_13 |
| 43 | 332156 | 141 | 143.8 | 145 | 0.8 | 95 | 83 | 42.8 | Yes | Yes | No | No | L4992\_3 |
| 44 | 356221 | 157 | 175.6 | 179 | 1.9 | 134 | 119 | 44.9 | Yes | Yes | No | No | L4992\_4 |
| 45 | 413911 | 149 | 129.8 | 170 | 23.7 | 121 | 104 | 44.4 | Yes | Yes | No | No | L4992\_5 |
| 46 | 402686 | 152 | 169.6 | 189 | 10.3 | 157 | 129 | 43.9 | Yes | Yes | No | No | L4992\_7 |
| 47 | 354780 | 152 | 197.3 | 210 | 6.0 | 170 | 153 | 42.0 | Yes | Yes | No | No | L4992\_9 |
| 48 | 419808 | 151 | 129.7 | 137 | 5.3 | 96 | 84 | 44.0 | Yes | Yes | No | No | L5018\_0 |
| 49 | 567093 | 153 | 184.8 | 193 | 4.3 | 146 | 137 | 43.6 | Yes | Yes | No | No | L5018\_1 |
| 50 | 515388 | 154 | 143.3 | 163 | 12.1 | 106 | 93 | 46.6 | Yes | Yes | No | No | L5018\_3 |
| 51 | 441549 | 138 | 159 | 167 | 4.8 | 124 | 118 | 44.9 | Yes | Yes | No | No | L5018\_4 |
| 52 | 493807 | 162 | 164.4 | 177 | 7.1 | 130 | 115 | 44.7 | Yes | Yes | No | No | L5018\_5 |
| 53 | 296309 | 149 | 138 | 160 | 13.7 | 109 | 98 | 46.1 | Yes | Yes | No | No | L5032\_1 |
| 54 | 850964 | 153 | 166.5 | 171 | 2.6 | 127 | 120 | 48.8 | Yes | Yes | No | No | L5034\_1 |
| 55 | 452246 | 149 | 127.3 | 146 | 12.8 | 74 | 70 | 48.9 | Yes | Yes | No | No | L5090\_1 |
| 56 | 304421 | 147 | 154.1 | 168 | 8.2 | 143 | 128 | 53.9 | Yes | No | No | No | L5111\_0 |
| 57 | 560674 | 145 | 221.2 | 364 | 39.2 | 228 | 201 | 47.5 | Yes | Yes | No | No | L5116\_1 |
| 58 | 465841 | 145 | 171.8 | 177 | 2.9 | 157 | 151 | 46.8 | Yes | Yes | No | No | L5116\_3 |
| 59 | 617108 | 166 | 191.5 | 220 | 12.9 | 139 | 129 | 45.9 | Yes | Yes | No | No | L5138\_3 |
| 60 | 690477 | 156 | 193.5 | 196 | 1.3 | 144 | 131 | 46.6 | Yes | Yes | No | No | L5163\_0 |
| 61 | 398225 | 167 | 177.1 | 188 | 5.8 | 116 | 102 | 44.1 | Yes | Yes | No | No | L5163\_2 |
| 62 | 309352 | 131 | 137.6 | 139 | 1.0 | 91 | 81 | 37.9 | Yes | Yes | No | No | L5163\_3 |
| 63 | 443091 | 145 | 149.2 | 161 | 7.3 | 131 | 122 | 45.1 | Yes | Yes | No | No | L5163\_5 |
| 64 | 366729 | 156 | 119.8 | 130 | 7.9 | 81 | 73 | 46.1 | Yes | Yes | No | No | L5163\_6 |
| 65 | 305326 | 150 | 128.6 | 139 | 7.5 | 104 | 87 | 46.8 | Yes | Yes | No | No | L5163\_7 |
| 66 | 452608 | 143 | 122.5 | 128 | 4.3 | 98 | 86 | 46.1 | Yes | Yes | No | No | L5168\_1 |
| 67 | 416720 | 127 | 146.6 | 164 | 10.6 | 119 | 113 | 45.7 | Yes | Yes | No | No | L5168\_2 |
| 68 | 405161 | 151 | 214.1 | 241 | 11.1 | 188 | 167 | 47.2 | Yes | Yes | No | No | L5168\_3 |
| 69 | 568946 | 153 | 192.7 | 232 | 16.9 | 179 | 168 | 49.4 | Yes | Yes | No | No | L5177\_1 |
| 70 | 730924 | 164 | 170.5 | 190 | 10.3 | 142 | 118 | 52.5 | Yes | Yes | No | No | L5188\_0 |
| 71 | 391939 | 152 | 184.7 | 192 | 3.8 | 134 | 121 | 46.2 | Yes | Yes | No | No | L5188\_2 |
| 72 | 847671 | 163 | 209.8 | 221 | 5.1 | 149 | 140 | 49.6 | Yes | Yes | No | No | L5200\_1 |
| 73 | 368782 | 145 | 152.7 | 161 | 5.1 | 98 | 84 | 49.8 | Yes | Yes | No | No | L5206\_1 |
| 74 | 356770 | 151 | 131.6 | 135 | 2.6 | 92 | 79 | 52.3 | Yes | Yes | No | Yes | L5257\_0 |
| 75 | 535763 | 156 | 197.5 | 208 | 5.1 | 142 | 118 | 45.0 | Yes | Yes | No | Yes | L5257\_1 |
| 76 | 549387 | 150 | 167.3 | 179 | 6.5 | 149 | 139 | 45.1 | Yes | Yes | No | Yes | L5257\_3 |
| 77 | 483414 | 159 | 211.1 | 232 | 9.0 | 184 | 169 | 44.8 | Yes | Yes | No | Yes | L5257\_4 |
| 78 | 395301 | 154 | 125.3 | 130 | 3.6 | 72 | 66 | 52.4 | Yes | Yes | No | No | L5264\_0 |
| 79 | 724927 | 161 | 252.6 | 266 | 5.0 | 188 | 160 | 43.2 | Yes | Yes | No | No | L5264\_1 |
| 80 | 359151 | 141 | 133 | 135 | 1.4 | 110 | 92 | 41.8 | Yes | Yes | No | No | L5271\_0 |
| 81 | 415344 | 157 | 199.8 | 226 | 11.6 | 166 | 149 | 47.3 | Yes | Yes | No | No | L5271\_2 |
| 82 | 553144 | 92 | 611.4 | 684 | 10.6 | 507 | 465 | 45.6 | No\* | Yes | No | No | L5273\_3 |
| 83 | 1988309 | 172 | 484.8 | 637 | 23.9 | 384 | 339 | 47.1 | Yes | Yes | No | No | L5280\_1 |
| 84 | 325010 | 149 | 125.7 | 133 | 5.5 | 103 | 87 | 48.6 | Yes | Yes | No | No | L5296\_1 |
| 85 | 284329 | 145 | 152.5 | 153 | 0.3 | 116 | 108 | 49.3 | Yes | Yes | No | No | L5296\_2 |
| 86 | 294029 | 119 | 163.7 | 175 | 6.4 | 142 | 133 | 42.7 | Yes | Yes | No | No | L5299\_1 |
| 87 | 439985 | 144 | 123.8 | 130 | 4.7 | 97 | 88 | 45.6 | Yes | Yes | Yes | No | L5318\_0 |
| 88 | 223114 | 85 | 384.9 | 411 | 6.3 | 328 | 301 | 47.6 | No\* | Yes | No | No | L5328\_0 |
| 89 | 999958 | 125 | 420.9 | 724 | 41.9 | 513 | 405 | 46.3 | Yes | Yes | No | No | L5333\_1a |
| 90 | 189313 | 102 | 346.8 | 386 | 10.2 | 306 | 293 | 44.6 | Yes\* | Yes | No | No | L5333\_1c |
| 91 | 371226 | 147 | 137.1 | 145 | 5.4 | 108 | 101 | 44.3 | Yes | Yes | No | No | L5333\_1d |
| 93 | 237819 | 135 | 158.1 | 161 | 1.8 | 135 | 122 | 49.5 | Yes | Yes | No | No | L5335\_2 |
| 94 | 199257 | 136 | 122.2 | 124 | 1.5 | 105 | 96 | 43.5 | Yes | Yes | No | No | L5339\_0 |
| 95 | 327303 | 137 | 151.8 | 156 | 2.7 | 117 | 110 | 42.8 | Yes | Yes | No | No | L5339\_1 |
| 96 | 443527 | 74 | 493.4 | 912 | 45.9 | 611 | 519 | 46.8 | No\* | Yes | No | No | L5343\_0 |
| 97 | 493355 | 158 | 154.8 | 168 | 7.9 | 112 | 99 | 53.5 | Yes | Yes | No | No | L5355\_0 |
| 98 | 739843 | 164 | 264.3 | 358 | 26.2 | 237 | 215 | 49.4 | Yes | Yes | No | No | L5355\_1 |
| 99 | 838012 | 165 | 167.8 | 211 | 20.5 | 112 | 92 | 52.1 | Yes | Yes | No | No | L5357\_0 |
| 100 | 250771 | 136 | 122.6 | 124 | 1.1 | 88 | 83 | 52.3 | Yes | Yes | No | No | L5366\_0 |
| 101 | 333715 | 139 | 122.8 | 130 | 5.6 | 94 | 90 | 50.2 | Yes | Yes | No | No | L5366\_1 |
| 102 | 134351 | 113 | 135 | 138 | 2.2 | 111 | 104 | 46.2 | Yes | Yes | No | No | L5398\_0 |
| 103 | 474414 | 154 | 195.5 | 337 | 42.0 | 137 | 129 | 42.3 | Yes | Yes | No | No | L5398\_1 |
| 104 | 82270 | 97 | 131 | 132 | 0.8 | 94 | 83 | 50.9 | No\* | Yes | No | No | L5404\_2 |
| 105 | 190521 | 138 | 127.7 | 129 | 1.0 | 92 | 90 | 45.4 | Yes | Yes | No | No | L5404\_4 |
| 106 | 730155 | 160 | 190.4 | 201 | 5.3 | 135 | 108 | 45.4 | Yes | Yes | No | No | L5406\_1 |
| 107 | 798910 | 165 | 350.6 | 436 | 19.6 | 292 | 258 | 43.7 | Yes | Yes | No | No | L5406\_3 |
| 108 | 670872 | 114 | 178.2 | 182 | 2.1 | 127 | 105 | 45.6 | Yes | Yes | No | No | L5406\_5 |
| 109 | 509666 | 81 | 122.3 | 127 | 3.7 | 81 | 65 | 47.2 | No\* | Yes | No | No | L5406\_6 |
| 110 | 231200 | 50 | 125.9 | 141 | 10.7 | 102 | 84 | 46.9 | No\* | Yes | No | No | L5421\_1 |
| 111 | 4993 | 10 | 134.5 | 138 | 2.5 | 67 | 34 | 43.3 | No | Yes | No | No | L5426\_0 |
| 112 | 1258439 | 163 | 319.4 | 380 | 15.9 | 271 | 238 | 47.2 | Yes | Yes | No | No | L5426\_1 |
| 113 | 1447725 | 168 | 600.8 | 741 | 18.9 | 577 | 524 | 46.9 | Yes | Yes | No | No | L5426\_3 |
| 114 | 852590 | 159 | 212.2 | 249 | 14.8 | 190 | 163 | 48.9 | Yes | Yes | No | No | L5426\_5 |
| 115 | 557751 | 150 | 174.6 | 182 | 4.1 | 132 | 123 | 45.5 | Yes | Yes | No | No | L5426\_6 |
| 116 | 309624 | 130 | 181.9 | 192 | 5.3 | 147 | 130 | 42.9 | Yes\* | Yes | No | No | L5427\_1 |
| 117 | 293260 | 126 | 132 | 139 | 5.0 | 113 | 95 | 46.8 | Yes | Yes | No | No | L5430\_1 |
| 118 | 848920 | 160 | 391.2 | 1029 | 62.0 | 710 | 583 | 47.1 | Yes | Yes | No | No | L5449\_1 |
| 119 | 656039 | 157 | 228.9 | 233 | 1.8 | 159 | 137 | 45.5 | Yes | Yes | No | No | L5449\_3 |
| 120 | 498207 | 159 | 204.6 | 227 | 9.9 | 160 | 151 | 47.0 | Yes | Yes | No | No | L5449\_4 |
| 121 | 214883 | 122 | 148.7 | 155 | 4.1 | 111 | 105 | 48.8 | Yes | Yes | No | No | L5463\_0 |
| 122 | 297498 | 145 | 152.6 | 161 | 5.2 | 120 | 110 | 45.1 | Yes | Yes | No | No | L5463\_2 |
| 123 | 507937 | 155 | 185.6 | 197 | 5.8 | 143 | 123 | 44.4 | Yes | Yes | No | No | L5464\_0 |
| 124 | 525129 | 146 | 125.5 | 126 | 0.4 | 82 | 73 | 43.6 | Yes | Yes | No | No | L5464\_1 |
| 125 | 693921 | 158 | 255.1 | 321 | 20.5 | 216 | 194 | 48.6 | Yes | Yes | No | No | L5469\_0 |
| 126 | 475412 | 155 | 148.8 | 152 | 2.1 | 104 | 94 | 48.2 | Yes | Yes | No | No | L5469\_1 |
| 127 | 199305 | 126 | 128.2 | 135 | 5.0 | 110 | 100 | 46.1 | Yes | Yes | No | No | L5477\_1 |
| 128 | 103462 | 79 | 177.9 | 282 | 36.9 | 136 | 112 | 47.2 | No\* | Yes | No | No | L5502\_0 |
| 129 | 222923 | 116 | 138.9 | 156 | 11.0 | 116 | 110 | 46.7 | Yes | Yes | No | No | L5513\_1 |
| 130 | 1417498 | 153 | 140.1 | 141 | 0.6 | 104 | 89 | 47.8 | Yes | Yes | No | No | L5528\_0 |
| 131 | 424689 | 127 | 120.4 | 136 | 11.5 | 95 | 82 | 44.1 | Yes | Yes | No | No | L5528\_1 |
| 132 | 244550 | 142 | 140.6 | 143 | 1.7 | 103 | 94 | 45.5 | Yes | Yes | No | No | L5528\_3 |
| 133 | 538101 | 150 | 152 | 163 | 6.8 | 126 | 117 | 49.0 | Yes | Yes | No | No | L5528\_4 |
| 134 | 59874 | 28 | 222.3 | 431 | 48.4 | 281 | 193 | 44.1 | No | Yes | No | No | L5536\_0 |
| 135 | 475547 | 148 | 128.8 | 148 | 13.0 | 90 | 79 | 44.3 | Yes | Yes | No | No | L5551\_2 |
| 136 | 40529 | 39 | 211 | 242 | 12.8 | 128 | 107 | 50.8 | No\* | Yes | No | No | L5554\_0 |
| 137 | 242586 | 148 | 139.9 | 161 | 13.1 | 112 | 102 | 45.3 | Yes | Yes | No | No | L5554\_1 |
| 138 | 470523 | 157 | 187.7 | 219 | 14.3 | 176 | 164 | 48.3 | Yes | Yes | No | No | L5554\_4 |
| 139 | 247035 | 145 | 136.7 | 139 | 1.6 | 105 | 88 | 44.5 | Yes | Yes | No | No | L5554\_6 |
| 140 | 247510 | 119 | 193.1 | 231 | 16.4 | 138 | 107 | 51.1 | Yes\* | Yes | No | No | L5596\_0 |
| 141 | 672931 | 147 | 247.7 | 286 | 13.4 | 245 | 228 | 50.9 | Yes | Yes | No | No | L5596\_6 |
| 142 | 435116 | 149 | 156.9 | 159 | 1.3 | 127 | 115 | 48.6 | Yes | Yes | No | No | L5599\_0 |
| 143 | 404406 | 146 | 200.6 | 217 | 7.6 | 188 | 179 | 45.5 | Yes | Yes | No | No | L5599\_1 |
| 144 | 435143 | 143 | 124.9 | 135 | 7.4 | 103 | 85 | 46.7 | Yes\* | Yes | No | No | L5599\_4 |
| 145 | 600966 | 157 | 213.3 | 276 | 22.7 | 234 | 223 | 48.4 | Yes | Yes | No | No | L5614\_0 |
| 146 | 588573 | 170 | 282.1 | 314 | 10.2 | 222 | 193 | 48.8 | Yes | Yes | No | No | L5614\_1 |
| 147 | 454786 | 146 | 137.5 | 145 | 5.2 | 105 | 93 | 48.5 | Yes | Yes | No | No | L5614\_3 |
| 148 | 217871 | 134 | 129.9 | 141 | 7.8 | 105 | 88 | 44.4 | Yes | Yes | No | No | L5634\_0 |
| 149 | 508528 | 152 | 128.9 | 134 | 3.8 | 88 | 83 | 47.7 | Yes | Yes | No | No | L5639\_0 |
| 150 | 532447 | 156 | 165.2 | 178 | 7.2 | 121 | 116 | 46.3 | Yes | Yes | No | No | L5639\_1 |
| 151 | 162724 | 119 | 125.3 | 168 | 25.4 | 111 | 102 | 61.9 | Yes\* | Yes | No | No | L5644\_0 |
| 152 | 765843 | 164 | 178.1 | 210 | 15.2 | 146 | 126 | 48.6 | Yes | Yes | No | No | L5644\_1 |
| 153 | 768914 | 165 | 246.6 | 283 | 12.8 | 206 | 188 | 44.9 | Yes | Yes | No | No | L5644\_2 |
| 154 | 238392 | 142 | 143.8 | 147 | 2.2 | 126 | 116 | 48.0 | Yes | Yes | No | No | L5644\_3 |
| 155 | 467644 | 146 | 211.6 | 227 | 6.8 | 190 | 176 | 45.7 | Yes | Yes | No | No | L5664\_0 |
| 156 | 523531 | 146 | 134.6 | 145 | 7.1 | 107 | 94 | 50.5 | Yes | Yes | No | No | L5664\_1 |
| 157 | 517539 | 149 | 140.5 | 144 | 2.5 | 108 | 95 | 48.9 | Yes | Yes | No | No | L5670\_1 |
| 158 | 519063 | 153 | 221 | 223 | 0.9 | 178 | 157 | 46.8 | Yes | Yes | No | No | L5670\_3 |
| 159 | 419481 | 158 | 147.5 | 163 | 9.5 | 108 | 102 | 43.7 | Yes | Yes | No | No | L5702\_1 |
| 160 | 434490 | 160 | 173.7 | 182 | 4.6 | 136 | 124 | 46.5 | Yes | Yes | No | No | L5702\_3 |
| 161 | 493961 | 147 | 172.7 | 184 | 6.2 | 126 | 109 | 42.7 | Yes | Yes | No | No | L5703\_1 |
| 162 | 558709 | 166 | 173.1 | 192 | 9.8 | 134 | 122 | 47.1 | Yes | Yes | No | No | L5703\_4 |
| 163 | 691248 | 163 | 202.4 | 207 | 2.2 | 157 | 137 | 52.2 | Yes | Yes | No | No | L5721\_1 |
| 164 | 289295 | 128 | 182.6 | 203 | 10.0 | 175 | 165 | 46.9 | Yes | No | No | No | L5753\_6 |
| 165 | 439592 | 151 | 176.4 | 233 | 24.3 | 200 | 175 | 48.9 | Yes | No | No | No | L5761\_0 |
| 166 | 236394 | 140 | 128.5 | 138 | 6.9 | 109 | 102 | 49.3 | Yes | Yes | No | No | L5770\_0 |
| 167 | 383521 | 157 | 184.1 | 203 | 9.3 | 164 | 151 | 48.0 | Yes | Yes | No | No | L5770\_1 |
| 168 | 165263 | 127 | 149.6 | 152 | 1.6 | 130 | 123 | 43.3 | Yes | Yes | No | No | L5770\_3 |
| 169 | 387180 | 116 | 128.7 | 145 | 11.2 | 95 | 83 | 43.7 | Yes\* | Yes | No | No | L5802\_0 |
| 170 | 553047 | 152 | 190.9 | 218 | 12.4 | 164 | 154 | 44.2 | Yes | No | No | No | L5812\_2 |
| 171 | 416075 | 141 | 125.7 | 171 | 26.5 | 100 | 94 | 52.8 | Yes\* | Yes | No | No | L5815\_0 |
| 172 | 552743 | 154 | 170.4 | 211 | 19.3 | 165 | 150 | 50.3 | Yes | Yes | No | No | L5815\_1 |
| 173 | 290969 | 135 | 128.9 | 134 | 3.8 | 105 | 97 | 49.0 | Yes | Yes | No | No | L5816\_0 |
| 174 | 250593 | 141 | 141.2 | 156 | 9.5 | 133 | 129 | 47.6 | Yes | Yes | No | No | L5816\_1 |
| 175 | 369263 | 147 | 167.2 | 172 | 2.8 | 112 | 106 | 49.3 | Yes | No | No | No | L5818\_1 |
| 176 | 289289 | 119 | 129.1 | 132 | 2.2 | 110 | 104 | 47.2 | Yes\* | No | No | No | L5818\_3 |
| 177 | 563354 | 153 | 149.4 | 241 | 38.0 | 118 | 104 | 54.3 | Yes | Yes | No | No | L5821\_0 |
| 178 | 579812 | 146 | 119.7 | 139 | 13.9 | 90 | 77 | 49.0 | Yes | Yes | No | No | L5821\_1 |
| 179 | 781275 | 167 | 226.8 | 254 | 10.7 | 152 | 133 | 45.4 | Yes | Yes | No | No | L5821\_2 |
| 180 | 577130 | 158 | 173.5 | 178 | 2.5 | 138 | 133 | 46.6 | Yes | Yes | No | No | L5821\_3 |
| 181 | 582922 | 156 | 167 | 169 | 1.2 | 150 | 138 | 48.5 | Yes | Yes | No | No | L5822\_0 |
| 182 | 340312 | 131 | 147.5 | 161 | 8.4 | 125 | 122 | 48.6 | Yes | Yes | No | No | L5822\_1 |
| 183 | 733764 | 169 | 252 | 538 | 53.2 | 348 | 282 | 58.2 | Yes | Yes | No | No | L5840\_0 |
| 184 | 658157 | 155 | 194.6 | 195 | 0.2 | 117 | 100 | 45.5 | Yes | Yes | No | No | L5840\_1 |
| 185 | 636343 | 142 | 173 | 174 | 0.6 | 123 | 105 | 43.6 | Yes | Yes | No | No | L5840\_3 |
| 186 | 255739 | 133 | 130.5 | 139 | 6.1 | 106 | 96 | 43.9 | Yes | Yes | No | No | L5841\_0 |
| 187 | 139890 | 107 | 137.7 | 148 | 7.0 | 120 | 108 | 51.7 | Yes\* | Yes | No | No | L5842\_0 |
| 188 | 249397 | 134 | 161 | 162 | 0.6 | 114 | 105 | 50.8 | Yes | Yes | No | No | L5842\_1 |
| 189 | 285080 | 125 | 126.2 | 134 | 5.8 | 114 | 107 | 45.7 | Yes | Yes | No | No | L5842\_4 |
| 190 | 280641 | 140 | 128.2 | 137 | 6.4 | 106 | 103 | 46.5 | Yes | Yes | No | No | L5842\_5 |
| 191 | 569173 | 149 | 145.6 | 169 | 13.9 | 105 | 81 | 48.5 | Yes | Yes | No | No | L5849\_0 |
| 192 | 310579 | 76 | 126 | 131 | 3.8 | 64 | 55 | 44.7 | No\* | Yes | No | No | L5849\_2 |
| 193 | 685016 | 138 | 260.4 | 271 | 3.9 | 225 | 208 | 44.8 | Yes | Yes | No | No | L5853\_0 |
| 194 | 665049 | 163 | 282.2 | 306 | 7.8 | 195 | 174 | 49.1 | Yes | Yes | No | No | L5857\_1b |
| 195 | 1012521 | 54 | 206.3 | 303 | 31.9 | 153 | 117 | 45.4 | No\* | Yes | No | No | L5858\_0 |
| 196 | 323135 | 143 | 157.5 | 168 | 6.3 | 140 | 132 | 46.4 | Yes | No | No | No | L5863\_4 |
| 197 | 823856 | 157 | 297.3 | 358 | 16.9 | 239 | 220 | 46.8 | Yes | Yes | No | No | L5865\_1 |
| 198 | 445904 | 147 | 212 | 215 | 1.4 | 154 | 142 | 43.2 | Yes | Yes | No | No | L5866\_0 |
| 199 | 396707 | 119 | 121.1 | 126 | 3.9 | 82 | 73 | 41.0 | Yes\* | Yes | No | No | L5870\_0 |
| 200 | 329457 | 139 | 122.6 | 124 | 1.1 | 88 | 74 | 43.9 | Yes | No | No | No | L5892\_1 |
| 201 | 393906 | 149 | 131.6 | 136 | 3.2 | 106 | 92 | 46.9 | Yes | Yes | No | No | L5894\_1 |
| 202 | 1057483 | 160 | 375.2 | 417 | 10.0 | 287 | 258 | 50.9 | Yes | Yes | No | No | L5899\_0 |
| 203 | 324664 | 124 | 158.5 | 160 | 1.0 | 115 | 104 | 41.9 | Yes | Yes | No | No | L5899\_1 |
| 204 | 286001 | 153 | 135.9 | 165 | 17.6 | 120 | 109 | 48.4 | Yes | Yes | No | No | L5899\_6 |
| 205 | 764096 | 168 | 417.4 | 733 | 43.1 | 408 | 336 | 56.6 | No | Yes | No | No | L5910\_0 |
| 206 | 272527 | 43 | 312.3 | 405 | 22.9 | 266 | 220 | 51.5 | No | Yes | No | No | L5910\_0b |
| 207 | 1436619 | 172 | 449.6 | 475 | 5.4 | 338 | 314 | 48.9 | Yes | Yes | No | No | L5913\_1 |
| 208 | 130467 | 77 | 174.8 | 189 | 7.5 | 123 | 109 | 44.2 | No\* | Yes | No | No | L5921\_0 |
| 209 | 190913 | 94 | 158 | 159 | 0.6 | 122 | 114 | 45.9 | No\* | Yes | No | No | L5921\_1 |
| 210 | 257119 | 139 | 296.4 | 312 | 5.0 | 259 | 236 | 48.8 | Yes | Yes | No | No | L5921\_10 |
| 211 | 188575 | 88 | 175.7 | 177 | 0.7 | 160 | 148 | 45.6 | No\* | Yes | No | No | L5921\_11 |
| 212 | 149385 | 102 | 208.6 | 214 | 2.5 | 179 | 169 | 38.7 | Yes\* | Yes | No | No | L5921\_12 |
| 213 | 129024 | 95 | 119.7 | 126 | 5.0 | 112 | 103 | 41.3 | No\* | Yes | No | No | L5921\_13 |
| 214 | 119996 | 89 | 148.9 | 153 | 2.7 | 141 | 134 | 46.0 | Yes\* | Yes | No | No | L5921\_14 |
| 215 | 313432 | 103 | 134.9 | 135 | 0.1 | 88 | 59 | 47.9 | Yes\* | Yes | No | No | L5921\_15 |
| 216 | 37245 | 59 | 126.9 | 129 | 1.6 | 89 | 74 | 41.7 | No | Yes | No | No | L5921\_3 |
| 217 | 146466 | 118 | 185.2 | 192 | 3.6 | 169 | 143 | 46.1 | Yes | Yes | No | No | L5921\_7 |
| 218 | 187687 | 118 | 131.6 | 135 | 2.5 | 98 | 78 | 47.6 | Yes | Yes | No | No | L5921\_8 |
| 219 | 333845 | 157 | 154.8 | 161 | 3.8 | 112 | 102 | 51.2 | Yes | Yes | No | No | L5922\_1 |
| 220 | 364627 | 161 | 191 | 197 | 3.0 | 140 | 134 | 47.2 | Yes | Yes | No | No | L5922\_4 |
| 221 | 323401 | 147 | 149.5 | 154 | 2.9 | 113 | 105 | 51.7 | Yes | Yes | No | No | L5922\_5 |
| 222 | 307368 | 145 | 152.6 | 157 | 2.8 | 106 | 96 | 48.2 | Yes | Yes | No | No | L5922\_6 |
| 223 | 267194 | 147 | 135 | 140 | 3.5 | 115 | 102 | 50.8 | Yes | Yes | No | No | L5926\_0 |
| 224 | 273488 | 130 | 125.7 | 135 | 6.9 | 94 | 85 | 46.2 | Yes | Yes | No | No | L5926\_2 |
| 225 | 414412 | 152 | 140.1 | 144 | 2.7 | 96 | 87 | 47.0 | Yes | Yes | No | No | L5933\_1 |
| 226 | 566785 | 171 | 273.5 | 283 | 3.3 | 227 | 206 | 49.5 | Yes | Yes | No | No | L5933\_3 |
| 227 | 346220 | 149 | 171.8 | 189 | 9.1 | 146 | 130 | 46.5 | Yes | Yes | No | No | L5933\_4 |
| 228 | 573181 | 148 | 146 | 152 | 3.9 | 119 | 105 | 55.5 | Yes | Yes | No | No | L5941\_0 |
| 229 | 267324 | 148 | 137.9 | 167 | 17.4 | 107 | 96 | 48.4 | Yes | Yes | No | No | L5943\_1 |
| 230 | 381276 | 154 | 184 | 274 | 32.8 | 184 | 166 | 47.5 | Yes | Yes | No | No | L5943\_4 |
| 231 | 378632 | 145 | 129 | 148 | 12.8 | 103 | 97 | 44.6 | Yes | Yes | No | No | L5943\_5 |
| 232 | 495760 | 159 | 146.4 | 150 | 2.4 | 114 | 107 | 48.5 | Yes | Yes | No | No | L5944\_0 |
| 233 | 73700 | 67 | 134 | 226 | 40.7 | 120 | 102 | 46.0 | No\* | Yes | No | No | L5944\_1 |
| 234 | 680720 | 157 | 222 | 260 | 14.6 | 188 | 161 | 44.9 | Yes | Yes | No | No | L5944\_3 |
| 235 | 1247950 | 164 | 232.7 | 263 | 11.5 | 148 | 112 | 45.1 | Yes | Yes | No | No | L5945\_1 |
| 236 | 595628 | 156 | 175.4 | 200 | 12.3 | 150 | 133 | 47.2 | Yes | Yes | No | No | L5949\_0 |
| 237 | 444072 | 159 | 119.5 | 124 | 3.6 | 103 | 85 | 51.1 | Yes | Yes | No | No | L5949\_1 |
| 238 | 550302 | 145 | 132.1 | 182 | 27.4 | 94 | 81 | 44.3 | Yes | Yes | No | No | L5950\_0 |
| 239 | 632767 | 160 | 173.6 | 176 | 1.4 | 126 | 120 | 42.4 | Yes | Yes | No | No | L5950\_1 |
| 240 | 1247516 | 169 | 361.2 | 580 | 37.7 | 384 | 333 | 48.1 | Yes | Yes | No | No | L5958\_0 |
| 241 | 399498 | 139 | 192.3 | 254 | 24.3 | 184 | 161 | 49.7 | Yes | Yes | No | No | L5960\_0 |
| 242 | 426039 | 158 | 197 | 210 | 6.2 | 147 | 130 | 46.7 | Yes | Yes | No | No | L5960\_1 |
| 243 | 592664 | 144 | 190.8 | 202 | 5.5 | 154 | 148 | 43.9 | Yes | Yes | No | No | L5974\_2 |
| 244 | 435308 | 134 | 125.6 | 138 | 9.0 | 95 | 90 | 46.2 | Yes | Yes | No | No | L5980\_1 |
| 245 | 601341 | 158 | 207.6 | 219 | 5.2 | 147 | 138 | 50.3 | Yes | Yes | No | No | L5981\_1 |
| 246 | 467058 | 156 | 155.7 | 163 | 4.5 | 113 | 97 | 48.2 | Yes | Yes | No | No | L6000\_0 |
| 247 | 513225 | 139 | 128.6 | 136 | 5.4 | 91 | 83 | 44.5 | Yes | Yes | No | No | L6000\_2 |
| 248 | 929678 | 176 | 278.7 | 288 | 3.2 | 197 | 172 | 48.4 | Yes | Yes | No | No | L6016\_1 |
| 249 | 324180 | 153 | 122.6 | 127 | 3.4 | 102 | 91 | 49.9 | Yes | Yes | No | No | L6026\_1 |
| 250 | 515698 | 145 | 173.6 | 194 | 10.5 | 125 | 107 | 44.9 | Yes | Yes | No | No | L6034\_2 |
| 251 | 213238 | 92 | 214.5 | 237 | 9.5 | 181 | 159 | 49.2 | No\* | No | No | No | L6035\_5 |
| 252 | 1860912 | 148 | 478.7 | 661 | 27.6 | 462 | 423 | 45.6 | Yes | No | No | No | L6035\_6 |
| 253 | 917692 | 164 | 262.1 | 307 | 14.6 | 211 | 190 | 45.0 | Yes | Yes | No | No | L6036\_1 |
| 254 | 871220 | 154 | 176 | 188 | 6.4 | 145 | 131 | 43.5 | Yes | Yes | No | No | L6036\_5 |
| 255 | 742510 | 166 | 166.8 | 180 | 7.3 | 122 | 109 | 51.9 | Yes | Yes | No | No | L6038\_1 |
| 256 | 572187 | 151 | 261.1 | 293 | 10.9 | 243 | 225 | 45.7 | Yes | Yes | No | No | L6041\_1 |
| 257 | 518672 | 166 | 215.9 | 232 | 7.0 | 176 | 143 | 46.3 | Yes | Yes | No | No | L6041\_6 |
| 258 | 401185 | 133 | 152.5 | 154 | 1.0 | 103 | 92 | 43.0 | Yes | Yes | No | No | L6041\_7 |
| 259 | 274103 | 82 | 121.3 | 128 | 5.3 | 66 | 54 | 40.5 | No\* | Yes | No | No | L6041\_8 |
| 260 | 183652 | 110 | 265.6 | 275 | 3.4 | 234 | 211 | 46.4 | Yes\* | Yes | No | Yes | L6051\_0b |
| 261 | 286966 | 143 | 151.7 | 238 | 36.3 | 159 | 115 | 48.8 | Yes | Yes | No | No | L6056\_2 |
| 262 | 305732 | 147 | 159.2 | 162 | 1.7 | 128 | 120 | 48.5 | Yes | Yes | No | No | L6056\_4 |
| 263 | 618053 | 129 | 213.6 | 307 | 30.4 | 257 | 237 | 44.4 | Yes | Yes | No | No | L6064\_0 |
| 264 | 184901 | 87 | 153.1 | 163 | 6.1 | 125 | 110 | 52.5 | No\* | No | No | No | L6065\_0 |
| 265 | 232837 | 129 | 155.5 | 172 | 9.6 | 141 | 129 | 46.1 | Yes | No | No | No | L6065\_1 |
| 266 | 277022 | 157 | 205.4 | 207 | 0.8 | 163 | 142 | 57.4 | Yes | Yes | No | Yes | L6098\_0 |
| 267 | 696877 | 113 | 140.7 | 141 | 0.2 | 69 | 59 | 50.7 | Yes\* | Yes | No | Yes | L6098\_1 |
| 268 | 743234 | 168 | 280.2 | 329 | 14.8 | 250 | 230 | 48.1 | Yes | Yes | No | Yes | L6098\_4 |
| 269 | 719799 | 160 | 281.1 | 321 | 12.4 | 243 | 215 | 48.1 | Yes | Yes | No | Yes | L6098\_5 |
| 270 | 593222 | 99 | 748 | 1284 | 41.7 | 1034 | 924 | 49.7 | Yes\* | Yes | No | No | L6119\_0 |
| 271 | 335328 | 137 | 168.7 | 174 | 3.0 | 148 | 124 | 47.9 | Yes | Yes | No | No | L6119\_1 |
| 272 | 112056 | 81 | 123.8 | 131 | 5.5 | 112 | 103 | 49.8 | No\* | Yes | No | No | L6119\_3 |
| 273 | 123414 | 114 | 126.7 | 131 | 3.3 | 97 | 88 | 48.7 | Yes | Yes | No | No | L6119\_4 |
| 274 | 311586 | 156 | 146.7 | 162 | 9.4 | 106 | 94 | 48.6 | Yes | Yes | No | No | L6130\_1 |
| 275 | 952470 | 167 | 327.5 | 364 | 10.0 | 243 | 213 | 45.5 | Yes | Yes | No | No | L6139\_0 |
| 276 | 797531 | 155 | 131.6 | 133 | 1.1 | 100 | 83 | 43.1 | Yes | Yes | No | No | L6139\_1 |
| 277 | 214326 | 138 | 155.6 | 159 | 2.1 | 124 | 113 | 47.8 | Yes | Yes | No | No | L6148\_0 |
| 278 | 632985 | 152 | 166.8 | 172 | 3.0 | 129 | 115 | 47.2 | Yes | Yes | No | No | L6150\_3 |
| 279 | 456158 | 153 | 170.9 | 190 | 10.1 | 128 | 120 | 50.6 | Yes\* | Yes | No | No | L6164\_0 |
| 280 | 357040 | 125 | 172.5 | 175 | 1.4 | 126 | 114 | 44.4 | Yes\* | Yes | No | No | L6164\_2 |
| 281 | 146669 | 139 | 132 | 156 | 15.4 | 111 | 108 | 56.0 | Yes | Yes | No | No | L6175\_0 |
| 282 | 233649 | 129 | 147.9 | 154 | 4.0 | 136 | 132 | 46.0 | Yes | Yes | No | No | L6175\_1 |
| 283 | 359458 | 143 | 205.7 | 227 | 9.4 | 190 | 175 | 45.4 | Yes | Yes | No | No | L6175\_4 |
| 284 | 338121 | 125 | 131.9 | 137 | 3.7 | 120 | 108 | 43.3 | Yes | Yes | No | No | L6175\_5 |
| 285 | 591180 | 165 | 182.6 | 186 | 1.8 | 149 | 138 | 49.4 | Yes | Yes | No | No | L6176\_1 |
| 286 | 194228 | 143 | 155.2 | 166 | 6.5 | 134 | 122 | 47.0 | Yes | Yes | No | No | L6176\_4 |
| 287 | 541061 | 110 | 129 | 146 | 11.7 | 103 | 98 | 50.5 | Yes | Yes | No | No | L6221\_0 |
| 288 | 694934 | 147 | 346.9 | 380 | 8.7 | 315 | 296 | 45.0 | Yes | Yes | No | No | L6221\_1 |
| 289 | 451338 | 127 | 128.2 | 130 | 1.4 | 107 | 103 | 46.4 | Yes | Yes | No | No | L6226\_1 |
| 290 | 470546 | 148 | 180.9 | 214 | 15.5 | 151 | 131 | 47.6 | Yes | Yes | No | No | L6226\_2 |
| 291 | 471837 | 159 | 160.7 | 170 | 5.5 | 118 | 111 | 48.8 | Yes | Yes | No | No | L6226\_4 |
| 292 | 373410 | 159 | 163.6 | 165 | 0.8 | 110 | 97 | 49.1 | Yes | Yes | No | No | L6227\_1 |
| 293 | 333153 | 139 | 148.6 | 170 | 12.6 | 144 | 130 | 47.3 | Yes | No | No | Yes | L6237\_0 |
| 294 | 561236 | 162 | 251.3 | 271 | 7.3 | 198 | 174 | 53.6 | Yes | Yes | No | No | L6238\_0 |
| 295 | 319097 | 145 | 143.8 | 147 | 2.2 | 102 | 92 | 48.8 | Yes | Yes | No | No | L6258\_1 |
| 296 | 343136 | 147 | 149.1 | 154 | 3.2 | 128 | 121 | 44.7 | Yes | Yes | No | No | L6265\_0 |
| 297 | 491335 | 148 | 132 | 151 | 12.6 | 96 | 84 | 52.2 | Yes | Yes | No | No | L6265\_2 |
| 298 | 294321 | 151 | 146.1 | 151 | 3.3 | 107 | 94 | 47.4 | Yes | Yes | No | No | L6274\_1 |
| 299 | 515709 | 163 | 206.4 | 359 | 42.5 | 167 | 149 | 48.6 | Yes | Yes | No | No | L6284\_0 |
| 300 | 375324 | 151 | 129.1 | 143 | 9.7 | 85 | 73 | 49.7 | Yes | Yes | No | No | L6298\_0 |
| 301 | 183832 | 50 | 324.7 | 460 | 29.4 | 266 | 228 | 51.6 | No\* | Yes | No | No | L6299\_0 |
| 302 | 431113 | 154 | 164.2 | 177 | 7.2 | 106 | 91 | 47.5 | Yes | Yes | No | No | L6303\_1 |
| 303 | 568249 | 166 | 170.7 | 172 | 0.7 | 142 | 117 | 49.8 | Yes | Yes | No | No | L6318\_1 |
| 304 | 428869 | 156 | 161.6 | 163 | 0.9 | 122 | 112 | 45.7 | Yes | Yes | No | No | L6318\_3 |
| 305 | 356277 | 152 | 164.1 | 168 | 2.3 | 128 | 116 | 46.7 | Yes | Yes | No | No | L6318\_5 |
| 306 | 246970 | 137 | 154.1 | 160 | 3.7 | 121 | 107 | 45.8 | Yes | Yes | No | No | L6318\_6 |
| 307 | 370605 | 130 | 161.4 | 163 | 1.0 | 130 | 123 | 42.7 | Yes | Yes | No | No | L6318\_7 |
| 308 | 298832 | 159 | 218.2 | 225 | 3.0 | 171 | 162 | 49.9 | Yes | Yes | No | No | L6320\_0 |
| 309 | 322660 | 148 | 125.7 | 126 | 0.2 | 101 | 89 | 52.2 | Yes | Yes | No | No | L6320\_1 |
| 310 | 368674 | 159 | 181.1 | 184 | 1.6 | 145 | 136 | 47.8 | Yes | Yes | No | No | L6320\_4 |
| 311 | 313595 | 142 | 137.8 | 138 | 0.1 | 104 | 99 | 49.0 | Yes | Yes | No | No | L6320\_5 |
| 312 | 573189 | 156 | 206.1 | 287 | 28.2 | 172 | 154 | 46.7 | Yes | Yes | No | No | L6363\_1 |
| 313 | 423988 | 143 | 137.7 | 138 | 0.2 | 93 | 86 | 46.5 | Yes | Yes | No | No | L6363\_4 |
| 314 | 300763 | 140 | 191.1 | 193 | 1.0 | 141 | 128 | 45.5 | Yes | Yes | No | No | L6363\_7 |
| 315 | 660322 | 162 | 179.2 | 201 | 10.8 | 114 | 99 | 43.4 | Yes | Yes | Yes | No | L6366\_1 |
| 316 | 707900 | 175 | 230.6 | 246 | 6.3 | 154 | 130 | 47.1 | Yes | Yes | Yes | No | L6366\_5 |
| 317 | 586157 | 152 | 196.5 | 218 | 9.9 | 184 | 171 | 46.8 | Yes | Yes | Yes | No | L6366\_6 |
| 318 | 367344 | 155 | 170.1 | 173 | 1.7 | 141 | 132 | 48.6 | Yes | Yes | No | No | L6373\_1 |
| 319 | 339814 | 136 | 145.6 | 160 | 9.0 | 125 | 117 | 48.5 | Yes | Yes | No | No | L6373\_3 |
| 320 | 606166 | 164 | 126 | 137 | 8.1 | 82 | 68 | 48.2 | Yes | Yes | No | No | L6376\_1 |
| 321 | 280977 | 151 | 156.7 | 163 | 3.8 | 128 | 113 | 47.6 | Yes | Yes | No | No | L6378\_1 |
| 322 | 259039 | 135 | 134.7 | 146 | 7.7 | 115 | 108 | 53.1 | Yes | Yes | No | No | L6384\_1 |
| 323 | 607912 | 146 | 176.6 | 188 | 6.1 | 119 | 101 | 48.6 | Yes | Yes | No | No | L6389\_0 |
| 324 | 417396 | 128 | 119.9 | 126 | 4.9 | 60 | 53 | 47.0 | Yes | Yes | No | No | L6389\_2 |
| 325 | 478614 | 146 | 184.2 | 192 | 4.1 | 146 | 129 | 44.1 | Yes | Yes | No | No | L6393\_1 |
| 326 | 378214 | 139 | 128.2 | 150 | 14.5 | 118 | 110 | 51.3 | Yes | Yes | No | No | L6393\_4 |
| 327 | 165538 | 145 | 150.7 | 158 | 4.6 | 104 | 91 | 49.8 | Yes | Yes | No | No | L6404\_0 |
| 328 | 387317 | 136 | 121.9 | 123 | 0.9 | 91 | 80 | 42.6 | Yes | Yes | No | No | L6405\_0 |
| 329 | 412241 | 151 | 181 | 192 | 5.8 | 159 | 142 | 47.9 | Yes | Yes | No | No | L6405\_1 |
| 330 | 6407 | 16 | 131.9 | 135 | 2.3 | 94 | 85 | 48.7 | No | Yes | No | No | L6406\_1 |
| 331 | 610873 | 116 | 142.8 | 151 | 5.4 | 120 | 107 | 47.3 | Yes\* | Yes | No | No | L6406\_8 |
| 332 | 362535 | 142 | 125.8 | 225 | 44.1 | 99 | 93 | 47.6 | Yes | Yes | No | No | L6412\_1 |
| 333 | 789885 | 171 | 236.9 | 255 | 7.1 | 173 | 160 | 47.5 | Yes | Yes | No | No | L6420\_1 |
| 334 | 666473 | 166 | 210 | 224 | 6.2 | 150 | 126 | 51.0 | Yes | Yes | No | No | L6432\_0 |
| 335 | 605230 | 144 | 152.8 | 159 | 3.9 | 97 | 92 | 46.5 | Yes | Yes | No | No | L6432\_2 |
| 336 | 252323 | 131 | 121 | 125 | 3.2 | 110 | 101 | 50.9 | Yes | No | No | No | L6435\_1 |
| 337 | 288261 | 140 | 125.7 | 167 | 24.7 | 96 | 86 | 50.3 | Yes | Yes | No | No | L6439\_1 |
| 338 | 411730 | 155 | 180.1 | 205 | 12.1 | 155 | 131 | 47.7 | Yes | Yes | No | No | L6447\_1 |
| 339 | 275599 | 136 | 149.4 | 153 | 2.4 | 112 | 106 | 47.5 | Yes | Yes | No | No | L6448\_1 |
| 340 | 593486 | 154 | 186 | 199 | 6.5 | 143 | 126 | 46.1 | Yes | Yes | No | No | L6449\_0 |
| 341 | 373035 | 150 | 155.2 | 174 | 10.8 | 127 | 111 | 53.0 | Yes | Yes | No | No | L6450\_0 |
| 342 | 652072 | 168 | 137.7 | 145 | 5.0 | 106 | 86 | 51.8 | Yes | Yes | No | No | L6450\_1 |
| 343 | 19062 | 7 | 139.6 | 143 | 2.4 | 79 | 44 | 41.0 | No | Yes | No | No | L6450\_2 |
| 344 | 926149 | 170 | 289.8 | 310 | 6.5 | 172 | 150 | 48.2 | Yes | Yes | No | No | L6450\_3 |
| 345 | 623863 | 148 | 155.7 | 183 | 14.9 | 112 | 101 | 45.0 | Yes | Yes | No | No | L6450\_4 |
| 346 | 706903 | 141 | 248.4 | 298 | 16.7 | 253 | 241 | 44.4 | Yes\* | Yes | No | Yes | L6451\_0 |
| 347 | 738684 | 124 | 240.6 | 257 | 6.4 | 212 | 202 | 47.4 | Yes\* | Yes | No | Yes | L6451\_1 |
| 348 | 257010 | 118 | 148.6 | 163 | 8.8 | 139 | 132 | 46.2 | Yes | Yes | No | No | L6457\_2 |
| 349 | 258952 | 126 | 139 | 165 | 15.7 | 127 | 113 | 48.5 | Yes | Yes | No | No | L6460\_0 |
| 350 | 357385 | 154 | 149.5 | 151 | 1.0 | 103 | 93 | 47.2 | Yes | Yes | No | No | L6462\_0 |
| 351 | 374286 | 165 | 164.9 | 168 | 1.8 | 97 | 86 | 52.3 | Yes | Yes | No | No | L6462\_1 |
| 352 | 1423981 | 175 | 237.9 | 255 | 6.7 | 175 | 151 | 50.5 | Yes | Yes | No | No | L6487\_1 |
| 353 | 2779998 | 173 | 932.5 | 1072 | 13.0 | 774 | 704 | 47.5 | Yes | Yes | No | No | L6487\_3 |
| 354 | 779504 | 168 | 255.2 | 291 | 12.3 | 226 | 206 | 48.0 | Yes | Yes | No | Yes | L6494\_1 |
| 355 | 442731 | 146 | 155.6 | 160 | 2.8 | 125 | 106 | 47.5 | Yes | Yes | No | Yes | L6494\_4 |
| 356 | 443274 | 161 | 209.5 | 247 | 15.2 | 178 | 169 | 51.9 | Yes | No | No | No | L6499\_1 |
| 357 | 363758 | 156 | 143 | 144 | 0.7 | 114 | 97 | 47.3 | Yes | Yes | No | No | L6500\_1 |
| 358 | 599723 | 170 | 310.3 | 347 | 10.6 | 277 | 246 | 51.2 | Yes | Yes | No | No | L6500\_5 |
| 359 | 513368 | 164 | 161 | 172 | 6.4 | 112 | 98 | 48.3 | Yes | Yes | No | No | L6500\_6 |
| 360 | 46471 | 54 | 146 | 175 | 16.6 | 140 | 131 | 46.0 | No | Yes | No | No | L6507\_2 |
| 361 | 81141 | 87 | 168.5 | 172 | 2.0 | 126 | 117 | 46.4 | No\* | Yes | No | No | L6527\_0 |
| 362 | 82673 | 87 | 120.8 | 162 | 25.4 | 87 | 75 | 46.5 | No\* | Yes | No | No | L6527\_1 |
| 363 | 38852 | 64 | 118.5 | 122 | 2.8 | 90 | 81 | 41.2 | No\* | Yes | No | No | L6527\_3 |
| 364 | 43897 | 73 | 121.5 | 130 | 6.5 | 92 | 82 | 47.4 | No\* | Yes | No | No | L6527\_4 |
| 365 | 767114 | 157 | 201.4 | 229 | 12.1 | 163 | 148 | 48.5 | Yes | Yes | No | No | L6528\_1 |
| 366 | 464746 | 152 | 152.4 | 161 | 5.4 | 107 | 93 | 48.0 | Yes | Yes | No | No | L6533\_1 |
| 367 | 1112383 | 172 | 305.9 | 324 | 5.6 | 233 | 200 | 48.3 | Yes | Yes | No | No | L6538\_1 |
| 368 | 297717 | 133 | 143.3 | 145 | 1.1 | 104 | 100 | 42.6 | Yes | Yes | No | No | L6544\_1 |
| 369 | 500076 | 162 | 232.5 | 252 | 7.7 | 205 | 185 | 49.1 | Yes | Yes | No | No | L6544\_4 |
| 370 | 224987 | 120 | 119.9 | 123 | 2.5 | 108 | 100 | 46.5 | Yes | No | No | No | L6548\_2 |
| 371 | 42430 | 56 | 124.9 | 135 | 7.5 | 106 | 105 | 46.6 | No | Yes | No | No | L6552\_0 |
| 372 | 281786 | 117 | 140.1 | 150 | 6.6 | 101 | 84 | 44.9 | Yes | Yes | No | No | L6559\_0 |
| 373 | 1131444 | 158 | 316.1 | 345 | 8.4 | 230 | 212 | 46.0 | Yes | Yes | No | No | L6559\_2 |
| 374 | 438250 | 156 | 170.3 | 187 | 9.0 | 149 | 144 | 49.8 | Yes | Yes | No | Yes | L6570\_1 |
| 375 | 359913 | 134 | 137.5 | 141 | 2.5 | 99 | 87 | 52.3 | Yes\* | Yes | No | No | L6572\_0 |
| 376 | 363811 | 116 | 140.9 | 147 | 4.1 | 119 | 111 | 46.4 | Yes | Yes | No | No | L6601\_1 |
| 377 | 374476 | 127 | 175.1 | 180 | 2.7 | 159 | 148 | 49.3 | Yes | Yes | No | No | L6601\_3 |
| 378 | 18564 | 19 | 158.9 | 167 | 4.9 | 135 | 100 | 50.2 | No | Yes | No | No | L6631\_0 |
| 379 | 844706 | 165 | 350 | 365 | 4.1 | 295 | 274 | 49.3 | Yes | Yes | No | No | L6636\_0 |
| 380 | 568973 | 126 | 252.2 | 382 | 34.0 | 288 | 276 | 45.0 | Yes | Yes | No | No | L6639\_0 |
| 381 | 414762 | 120 | 134.3 | 142 | 5.4 | 116 | 105 | 46.0 | Yes\* | Yes | No | No | L6639\_1 |
| 382 | 458172 | 161 | 146.8 | 155 | 5.3 | 105 | 99 | 50.6 | Yes | Yes | No | No | L6641\_1 |
| 383 | 622726 | 170 | 181.1 | 323 | 43.9 | 121 | 110 | 44.5 | Yes | Yes | No | No | L6641\_3 |
| 384 | 442375 | 139 | 147.1 | 247 | 40.5 | 153 | 139 | 45.9 | Yes | Yes | No | Yes | L6652\_4 |
| 385 | 470114 | 149 | 192.1 | 208 | 7.7 | 153 | 140 | 47.8 | Yes | Yes | No | Yes | L6652\_5 |
| 386 | 394859 | 155 | 171.6 | 188 | 8.7 | 156 | 144 | 49.7 | Yes | Yes | No | No | L6660\_0 |
| 387 | 516423 | 143 | 224.9 | 231 | 2.6 | 202 | 189 | 46.0 | Yes | Yes | No | No | L6667\_0 |
| 388 | 245594 | 156 | 121.5 | 123 | 1.2 | 103 | 93 | 45.6 | Yes | Yes | No | No | L6667\_1 |
| 389 | 241087 | 161 | 148.4 | 153 | 3.0 | 107 | 100 | 45.0 | Yes | Yes | No | No | L6667\_3 |
| 390 | 134799 | 112 | 135.1 | 178 | 24.1 | 137 | 131 | 52.3 | Yes | Yes | No | No | L6679\_0 |
| 391 | 923820 | 167 | 269 | 289 | 6.9 | 167 | 151 | 48.9 | Yes | Yes | No | No | L6717\_1 |
| 392 | 462599 | 145 | 151 | 161 | 6.2 | 134 | 124 | 45.9 | Yes | Yes | No | No | L6717\_3 |
| 393 | 10929 | 16 | 155.1 | 159 | 2.4 | 120 | 63 | 54.4 | No | Yes | No | No | L6738\_0 |
| 394 | 664843 | 164 | 228.1 | 277 | 17.6 | 213 | 200 | 48.3 | Yes | Yes | No | No | L6779\_0 |
| 395 | 856074 | 154 | 354.1 | 485 | 27.0 | 319 | 294 | 47.6 | Yes | Yes | No | No | L6779\_2 |
| 396 | 360844 | 154 | 158.8 | 163 | 2.6 | 104 | 94 | 43.8 | Yes | Yes | No | No | L6780\_0 |
| 397 | 541820 | 155 | 249.2 | 298 | 16.4 | 233 | 224 | 49.1 | Yes\* | Yes | No | No | L6782\_0 |
| 398 | 335149 | 122 | 122.8 | 125 | 1.7 | 97 | 89 | 46.5 | Yes\* | Yes | No | No | L6791\_1 |
| 399 | 9545 | 29 | 117.2 | 120 | 2.3 | 78 | 74 | 40.7 | No | Yes | No | No | L6797\_2 |
| 400 | 645530 | 169 | 187.7 | 222 | 15.5 | 167 | 144 | 49.9 | Yes | Yes | No | No | L6825\_0 |
| 401 | 519925 | 158 | 173.5 | 178 | 2.5 | 143 | 135 | 46.5 | Yes | Yes | No | No | L6825\_1 |
| 402 | 287845 | 124 | 128.4 | 141 | 9.0 | 124 | 116 | 45.3 | Yes | Yes | No | No | L6848\_0 |
| 403 | 393195 | 141 | 122.1 | 123 | 0.8 | 101 | 93 | 47.5 | Yes | Yes | No | No | L6848\_2 |
| 404 | 430466 | 147 | 188.7 | 226 | 16.5 | 168 | 150 | 48.0 | Yes | Yes | No | No | L6854\_0 |
| 405 | 288961 | 126 | 160.1 | 165 | 3.0 | 129 | 116 | 45.9 | Yes | Yes | No | No | L6860\_2 |
| 406 | 618792 | 168 | 171.3 | 180 | 4.8 | 132 | 117 | 51.7 | Yes | Yes | No | No | L6883\_0 |
| 407 | 659562 | 170 | 200.3 | 213 | 5.9 | 134 | 121 | 46.2 | Yes | Yes | No | No | L6883\_1 |
| 408 | 404927 | 157 | 128.2 | 130 | 1.4 | 81 | 74 | 47.7 | Yes | Yes | No | No | L6913\_1 |
| 409 | 420454 | 158 | 131.8 | 140 | 5.9 | 86 | 77 | 48.5 | Yes | Yes | No | No | L6913\_3 |
| 410 | 416695 | 172 | 122.2 | 123 | 0.6 | 72 | 66 | 55.4 | Yes | Yes | No | No | L6913\_4 |
| 411 | 276771 | 140 | 132.4 | 138 | 4.1 | 113 | 98 | 45.7 | Yes | Yes | No | No | L6914\_2 |
| 412 | 1057876 | 167 | 194.1 | 204 | 4.8 | 134 | 113 | 49.8 | Yes | Yes | No | No | L6924\_0 |
| 413 | 261457 | 135 | 122.7 | 126 | 2.7 | 91 | 89 | 45.1 | Yes | Yes | No | No | L6933\_0 |
| 414 | 689505 | 152 | 172.1 | 199 | 13.5 | 147 | 129 | 47.2 | Yes | Yes | No | No | L6947\_1 |
| 415 | 437604 | 119 | 205.5 | 215 | 4.4 | 175 | 160 | 46.0 | Yes | Yes | No | No | L6947\_4 |
| 416 | 215595 | 97 | 128.9 | 133 | 3.1 | 105 | 93 | 48.3 | Yes\* | Yes | No | No | L6954\_0 |
| 417 | 270712 | 117 | 180.6 | 189 | 4.4 | 139 | 123 | 49.7 | Yes\* | Yes | No | No | L6954\_1 |
| 418 | 1053397 | 168 | 342.7 | 559 | 38.7 | 377 | 313 | 50.9 | Yes | Yes | No | No | L6955\_0 |
| 419 | 172763 | 117 | 157.6 | 290 | 45.7 | 147 | 124 | 43.7 | Yes | No | No | No | L6956\_1 |
| 420 | 347321 | 144 | 144.1 | 151 | 4.6 | 121 | 112 | 47.5 | Yes | Yes | No | No | L6961\_1 |
| 421 | 536723 | 163 | 179.7 | 183 | 1.8 | 126 | 119 | 51.3 | Yes | Yes | No | No | L6961\_2 |
| 422 | 482097 | 162 | 164.1 | 211 | 22.2 | 123 | 108 | 48.3 | Yes | Yes | No | No | L6968\_1 |
| 423 | 139723 | 104 | 128.3 | 129 | 0.5 | 90 | 81 | 48.7 | Yes\* | Yes | No | No | L6969\_0 |
| 424 | 643558 | 148 | 209 | 211 | 0.9 | 147 | 135 | 44.3 | Yes | Yes | No | No | L6978\_0 |
| 425 | 298960 | 127 | 143.7 | 164 | 12.4 | 98 | 86 | 47.4 | Yes | Yes | No | No | L6978\_2 |
| 426 | 407125 | 147 | 196.4 | 222 | 11.5 | 172 | 157 | 47.9 | Yes | Yes | No | No | L6995\_2 |
| 427 | 175471 | 93 | 124.9 | 126 | 0.9 | 99 | 93 | 48.2 | No\* | Yes | No | No | L7024\_0 |
| 428 | 455327 | 167 | 196.6 | 213 | 7.7 | 170 | 149 | 57.2 | Yes | Yes | No | No | L7029\_0 |
| 429 | 483939 | 151 | 131.5 | 137 | 4.0 | 98 | 88 | 45.5 | Yes | Yes | No | No | L7029\_1 |
| 430 | 258757 | 130 | 146.6 | 147 | 0.3 | 103 | 88 | 49.1 | Yes\* | Yes | No | No | L7067\_0 |
| 431 | 283578 | 130 | 155.4 | 242 | 35.8 | 169 | 145 | 49.0 | Yes\* | No | No | No | L7120\_1 |
| 432 | 611897 | 160 | 242.5 | 260 | 6.8 | 210 | 199 | 46.4 | Yes | Yes | No | No | L7128\_2 |
| 433 | 235703 | 125 | 119.2 | 120 | 0.7 | 90 | 85 | 48.3 | Yes | Yes | No | No | L7135\_2 |
| 434 | 349382 | 152 | 164 | 168 | 2.4 | 122 | 113 | 49.5 | Yes | Yes | No | No | L7141\_1 |
| 435 | 543921 | 155 | 285.1 | 340 | 16.2 | 264 | 245 | 51.1 | Yes | Yes | No | No | L7174\_0 |
| 436 | 454138 | 135 | 273.1 | 423 | 35.4 | 304 | 272 | 46.9 | Yes | Yes | No | No | L7174\_1 |
| 437 | 241253 | 142 | 152.2 | 153 | 0.5 | 113 | 105 | 51.7 | Yes | Yes | No | No | L7174\_4 |
| 438 | 461880 | 134 | 184.9 | 200 | 7.6 | 149 | 138 | 48.1 | Yes\* | Yes | No | No | L7241\_2 |
| 439 | 366982 | 148 | 119.5 | 120 | 0.4 | 103 | 94 | 48.7 | Yes | No | No | No | L7248\_1 |
| 440 | 236079 | 124 | 119.9 | 123 | 2.5 | 89 | 85 | 45.9 | Yes | Yes | No | No | L7273\_0 |
| 441 | 193793 | 132 | 157.3 | 163 | 3.5 | 141 | 133 | 48.7 | Yes | Yes | No | No | L7279\_0 |
| 442 | 192203 | 133 | 157.5 | 159 | 0.9 | 137 | 131 | 42.0 | Yes | Yes | No | No | L7279\_1 |
| 443 | 532614 | 134 | 137.7 | 165 | 16.5 | 135 | 123 | 51.4 | Yes | Yes | No | No | L7296\_0 |
| 444 | 112456 | 62 | 166.5 | 171 | 2.7 | 120 | 104 | 44.1 | No\* | Yes | No | No | L7313\_1 |
| 445 | 214479 | 76 | 412.6 | 471 | 12.4 | 311 | 264 | 48.9 | No\* | Yes | No | No | L7313\_3 |
| 446 | 176615 | 68 | 181.5 | 183 | 0.8 | 130 | 113 | 49.2 | No\* | Yes | No | No | L7313\_4 |
| 447 | 920788 | 152 | 272.7 | 294 | 7.2 | 212 | 194 | 45.4 | Yes | Yes | No | No | L7324\_1 |
| 448 | 571430 | 155 | 313.1 | 347 | 9.8 | 277 | 256 | 49.6 | Yes | Yes | No | No | L7572\_0 |
| 449 | 336443 | 141 | 155 | 168 | 7.8 | 128 | 114 | 53.9 | Yes | Yes | No | No | L7572\_1 |
| 450 | 482564 | 116 | 196.3 | 199 | 1.4 | 149 | 138 | 46.9 | Yes\* | Yes | No | No | L7577\_1 |
| 451 | 328971 | 68 | 230.8 | 234 | 1.4 | 145 | 128 | 52.1 | No\* | Yes | No | No | L7602\_1 |
| 452 | 82053 | 48 | 132.1 | 135 | 2.2 | 91 | 90 | 53.1 | No | Yes | No | No | L7602\_15 |
| 453 | 398807 | 92 | 203.6 | 226 | 9.9 | 186 | 172 | 47.3 | No\* | No | No | No | L7653\_1 |

a“Total reads” is the number of reads from all samples that map to the locus. “Samples” is the number of samples that recovered the locus in the targeted enrichment experiment. “GoFlag 408 probes” denotes the loci that were included in the GoFlag 408 probe set, and an asterisk (\*) identifies the loci with taxonomic biases in the samples that recovered the locus. “353 Gene” indicates loci that are in genes covered by the Angiosperms353 probe set (Johnson et al., 2019). “Wolf et al. probes” and “Liu et al. probes” indicate loci from the fern probe set of Wolf et al. (2018) or the moss probe set of Liu et al. (2019), respectively. “1KP locus” identifies the 1KP locus and exon region in which the probe region is found.