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|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 28 | 29 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|  | C | A | T |  | A | C |  |  |  |  |  | T | C | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | G |  |  |  |  |  |  |  |  |
| N.sh LN852660 | T | A | G | A | A | A | C | A | | A | T | T | A | A | G | C | A | A | G | C | C | G | A | C | T | G | - | - | - | - | - | - | - | - |
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| N.sh LN871815 |  | . | . |
| N.sh LN871814 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871813 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871812 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871811 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871810 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871809 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871808 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871807 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871806 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871805 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871804 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN852661 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
| N.sh LN871803 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN852663 |  |
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| N.sh LN871802 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871801 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sh LN871800 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - | - | - | - | - |
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| N.sal XXXX | . | . | . | - | . | . | - | - | - | - | - | . | . | G | - | - |  | - | . | . | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | C | G | A | A | G | A | C | T |
|  | . | . | . | - | . | . | - | - | - | - | - | . |  |  | - | - |  | - |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | C | G | A | A | G | A | C | T |
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| N.sal XXXX | . | G |  | . | . |
|  | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 |  | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 85 | 108 | 110 | 111 | 112 | 113 | 114 | 115 | 124 | 125 | 126 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN852660 | G | A | G | C | A | G | A | C | C | A | A | T | G | A | G | T | | A | G | T | C | A | T | A | C | T | C | G | T | T | G | A | C | A | T | G | T | G | G | G | - | - | - |
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| N.sh LN871814 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871813 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871812 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871811 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sh LN871810 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871809 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sh LN871804 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sh LN871803 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sh LN852663 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871802 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sh LN871801 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
| N.sh LN871800 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - |
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| N.sal XXXX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C | T | G | T | G | G | G | T | T | T |
| N.sal XXXX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C | . | . | . | . | . | . | T | T | T |
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| N.sal XXXX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C | . | . | . | . | . | . | T | T | T |
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|  | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 |  | 144 | 145 | 146 | 147 | 148 | 153 | 161 | 182 | 183 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 |
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| N.sh LN871815 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871814 |  |
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| N.sh LN871813 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871812 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871811 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| N.sh LN871810 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871805 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871803 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871802 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871801 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| N.sh LN871800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | . | . | . | . | . | . | . | - | - | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sal XXXX | T | A | T | A | G | C | G | G | G | C | T | C | A | G | A | T |  | T | G | T | T | T | T | G | A | T | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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|  | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 233 | 234 | 263 | 264 | 265 | 266 |  | 267 | 268 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 294 | 347 | 348 | 349 | 350 | 351 |
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| N.sh LN871814 | . | . | . | . | . | . | . | . | . | . | C | G | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | . | . | . | . | . |
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| N.sh LN871813 |  |
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| N.sh LN871812 |  |
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| N.sh LN871811 | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | . | . | . | . | . |
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| N.sh LN871802 |  |
| N.sh LN871801 | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | . | . | . | . | . |
| N.sh LN871800 | . | . | . | . | . | . | . | . | . | . | . | . | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | . | . | . | . | . |
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| N.sal XXXX | - | - | - | - | - | - | - | - | - | - | . | . | A | T | A | T | | A | T | G | G | A | A | C | G | A | G | G | G | C | G | C | C | T | G | C | A | A | T | G | T | T | T |
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|  | 354 | 355 | 356 | 357 | 358 | 361 | 363 | 364 | 371 | 404 | 417 | 418 | 458 | 528 | 529 | 530 |  | 531 | 532 | 554 | 584 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 634 | 636 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN852660 | G | G | C | A | A | G | T | G | A | C | T | C | G | T | C | A | | G | G | A | C | C | C | G | C | C | C | T | G | T | T | T | C | T | G | T | T | T | G | T | T | A | A |
| N.sh LN871815 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871814 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| N.sh LN871813 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| N.sh LN871812 |  |
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| N.sh LN871811 |  |
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| N.sh LN871810 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871809 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871805 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN852661 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871803 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN852662 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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**Fig. S1.** Supplementary figure S1. Polymorphic sites of alignment for the complete ITS1 sequences. Dash says there is a nucleotide missing in sequence; the dots mean common nucleotide sequence; InDels are on grey background.

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| N.sh LN871802 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
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| N.sh LN871801 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| N.sh LN871800 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sal XXXX | G | G | C | G | G | T | C | A | G | A | C | T | T | T | C | A | G | G | C | T | C | C | G | C | C | C | T | G | T | T | T | T | . | . | . | . | - | - | - | - | G | G |
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| N.sal XXXX | G | G | C | G | G | T | C | A | G | A | C | T | T | . | . | . | . | . | C | T | . | . | . | . | . | . | . | . | . | . | . | T | . | . | . | . | - | - | - | - | G | G |
| N.sal XXXX | G | G | C | G | G | T | C | A | G | A | C | T | T | . | . | . | . | . | C | T | . | . | . | . | . | . | . | . | . | . | . | T | . | . | . | . | - | - | - | - | G | G |
|  | 663 | 692 | 751 | 752 | 753 | 754 | 755 | 800 | 804 | 807 | 824 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN852660 | G | G | G | G | C | G | G | G | C | T | T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871815 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN871814 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN871813 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871812 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871811 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871810 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871809 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871808 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871807 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN871806 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN871805 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871804 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN852661 | . | . | . | . | . | . | C | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN852663 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871802 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sh LN871801 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sh LN871800 | . | . | . | . | . | . | . | . | . | . | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N.sal XXXX | A | A | G | G | C | G | G | A | T | C | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sal XXXX | A | A | . | . | . | . | . | A | T | C | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.sal XXXX | A | A | . | . | . | . | . | A | T | C | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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