

Figure S1. Intron gain polymorphisms

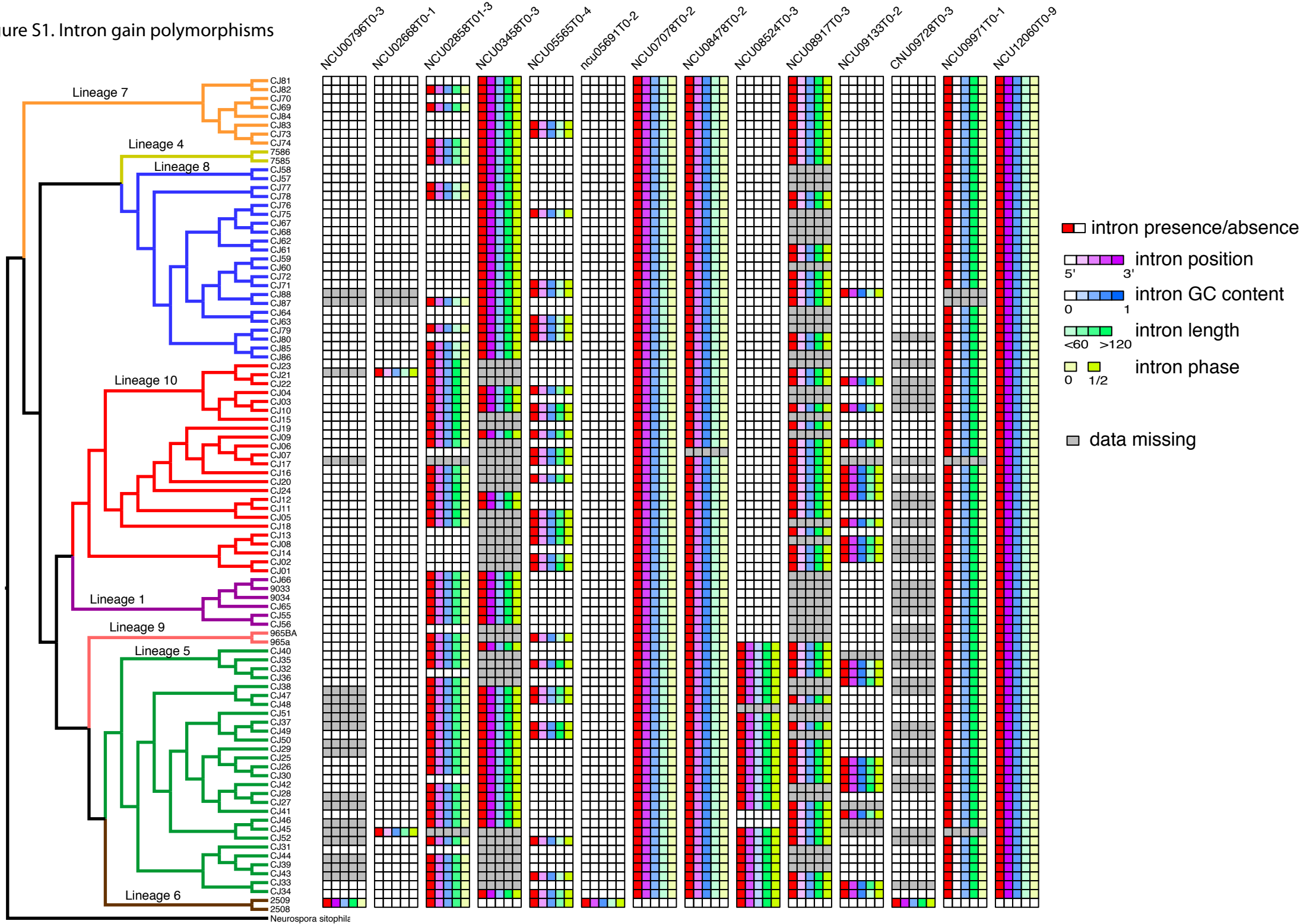


Figure S1. Polymorphism data for intron gains in *N. tetrasperma* populations. Phylogenomic tree for *N. tetrasperma* populations is presented with branches for different lineages shown in different colors. For each intron site, the first column indicates intron present (red), absent (white) or data missing (grey), and the second to fifth column indicate intron position (magenta), intron GC content (blue), intron length (green) and intron phase (yellow).

Figure S2. Intron loss polymorphisms

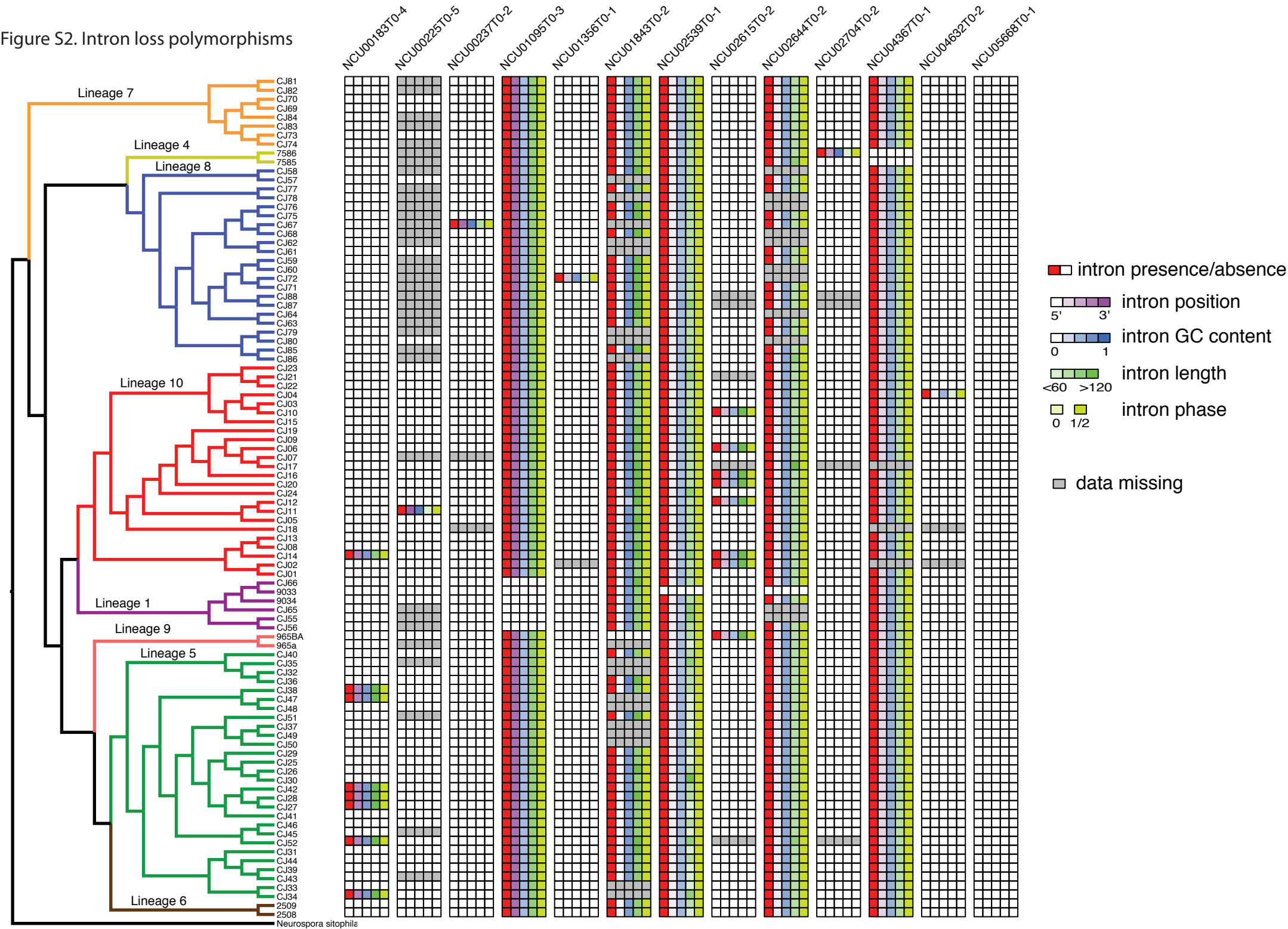


Figure S2. Intron loss polymorphisms

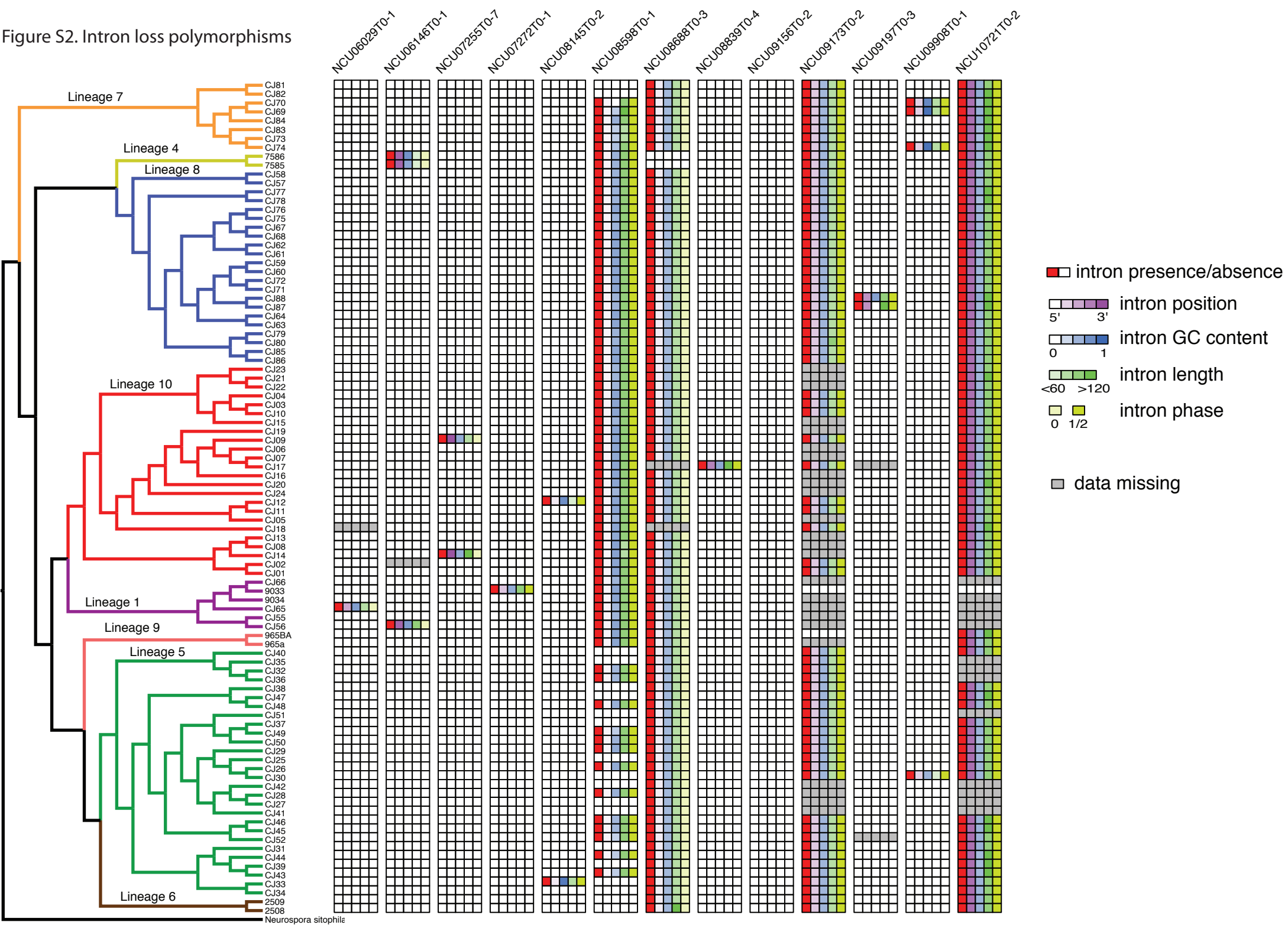
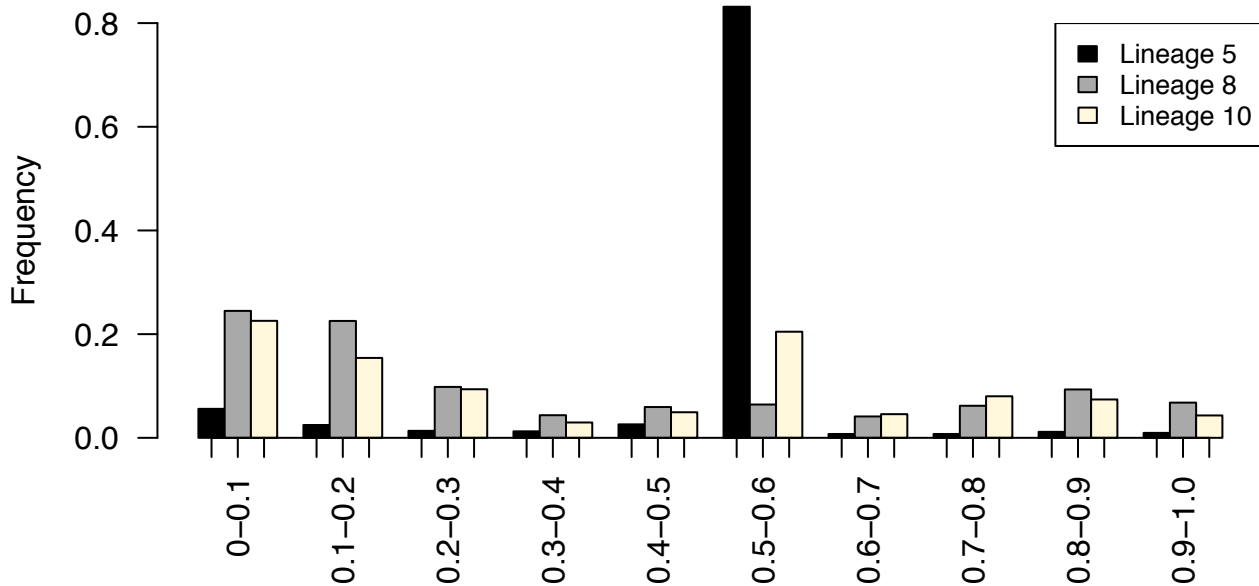


Figure S2. Polymorphic data for intron losses in *N. tetrasperma* populations. Phylogenomic tree for *N. tetrasperma* populations is presented with branches for different lineages shown in different colors. For each intron site, the first column indicates intron present (red), absent (white) or data missing (grey), and the second to fifth column indicate intron position (magenta), intron GC content (blue), intron length (green) and intron phase (yellow).

A. SR region



B. R region

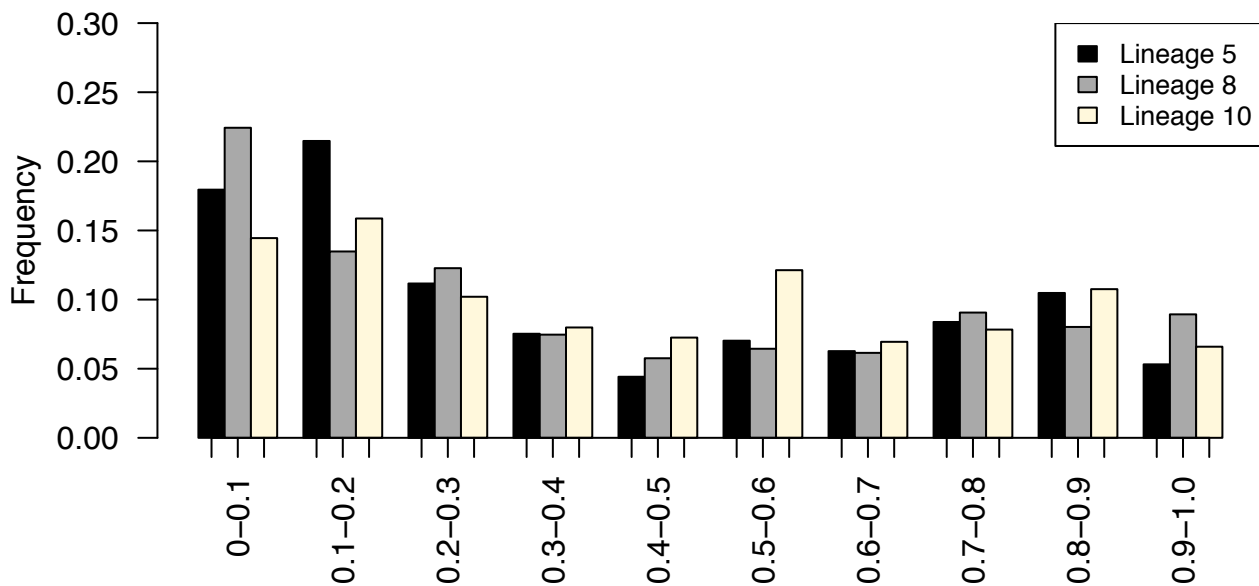
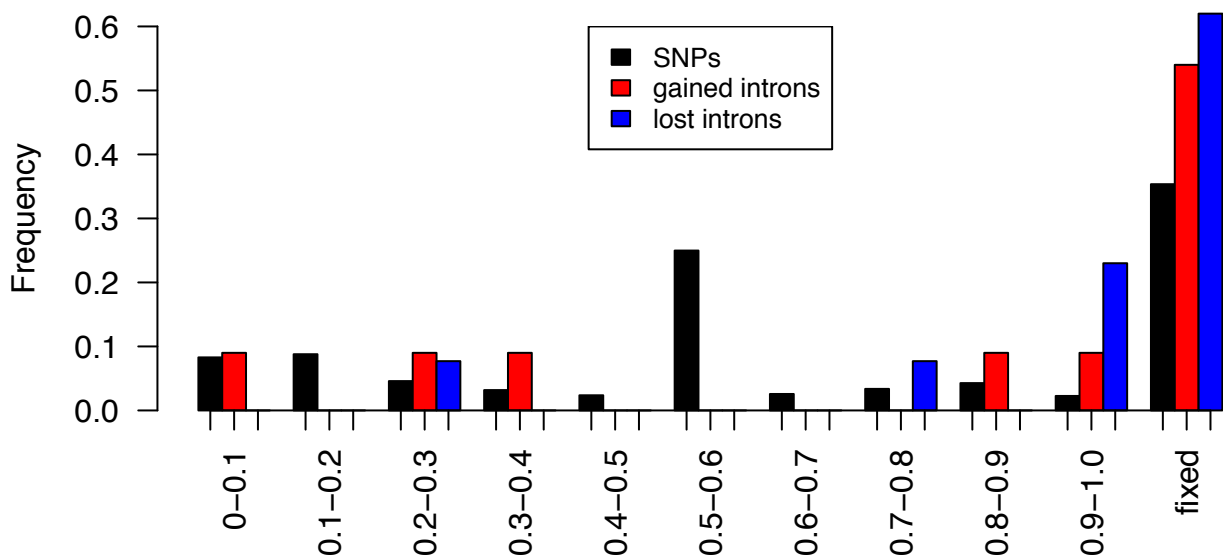
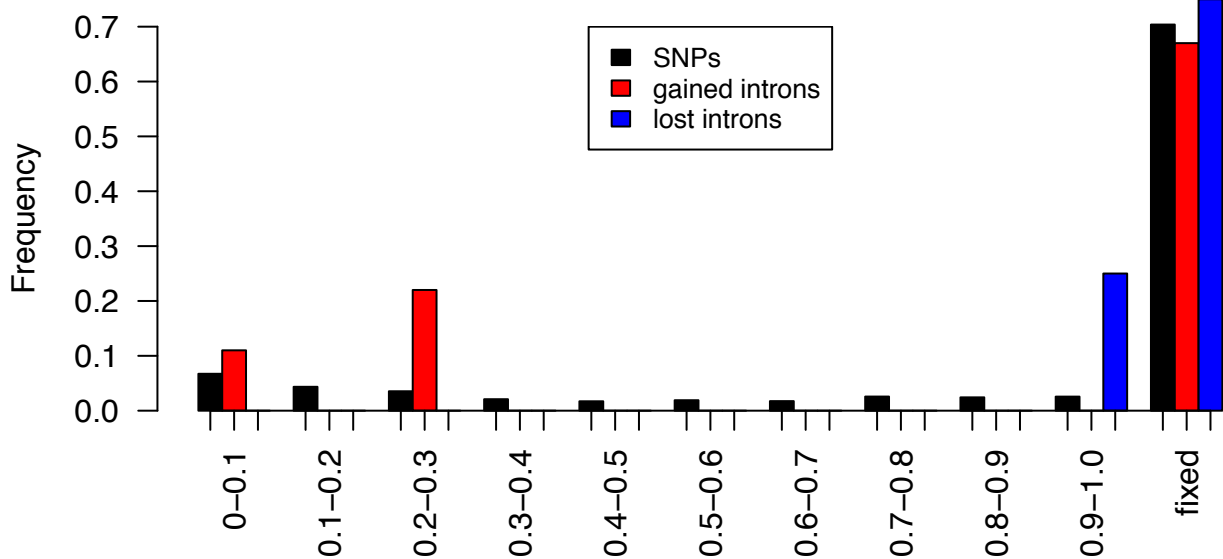


Figure S3. Frequency spectra of neutral SNPs in SR and R region

A. lineage 5



B. lineage 8



C. lineage 10

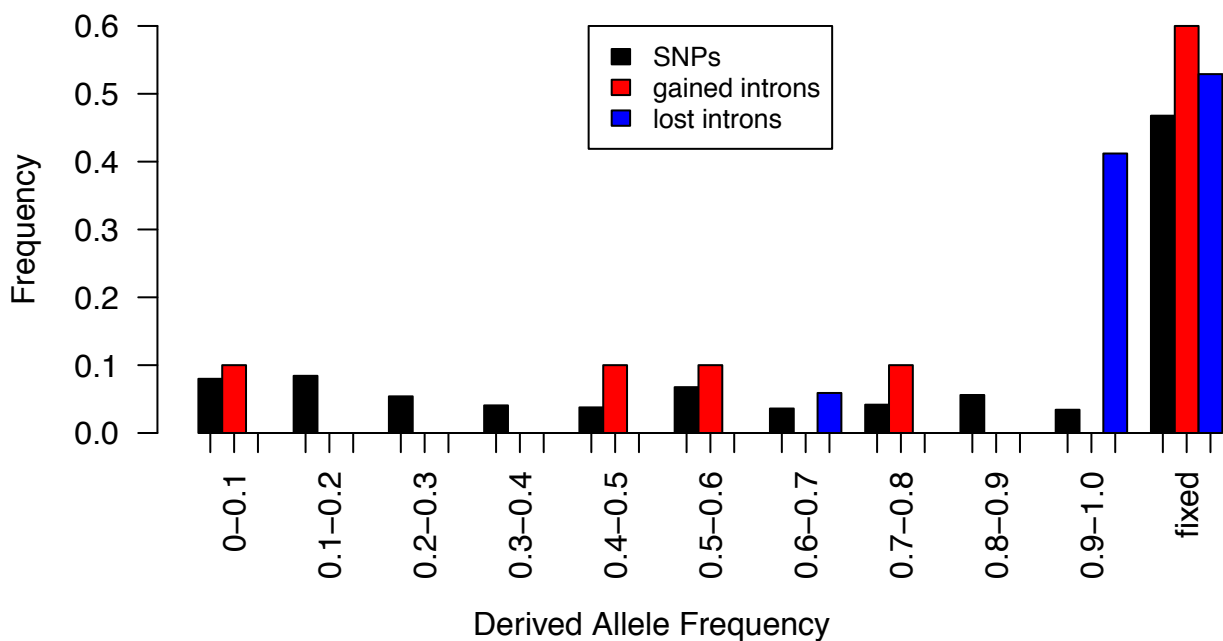


Figure S4. Frequency spectra of intron gains and losses with fixed info

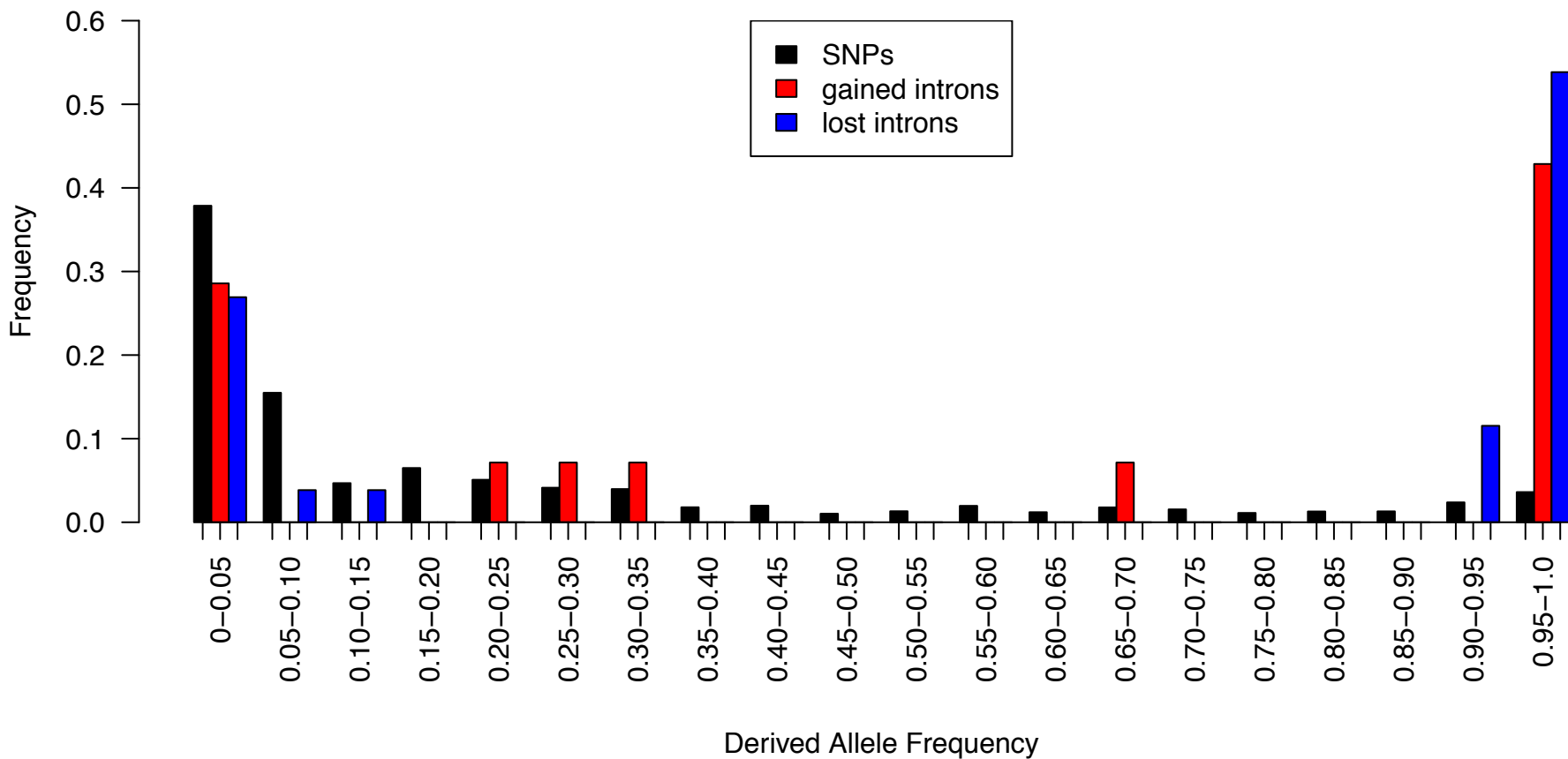
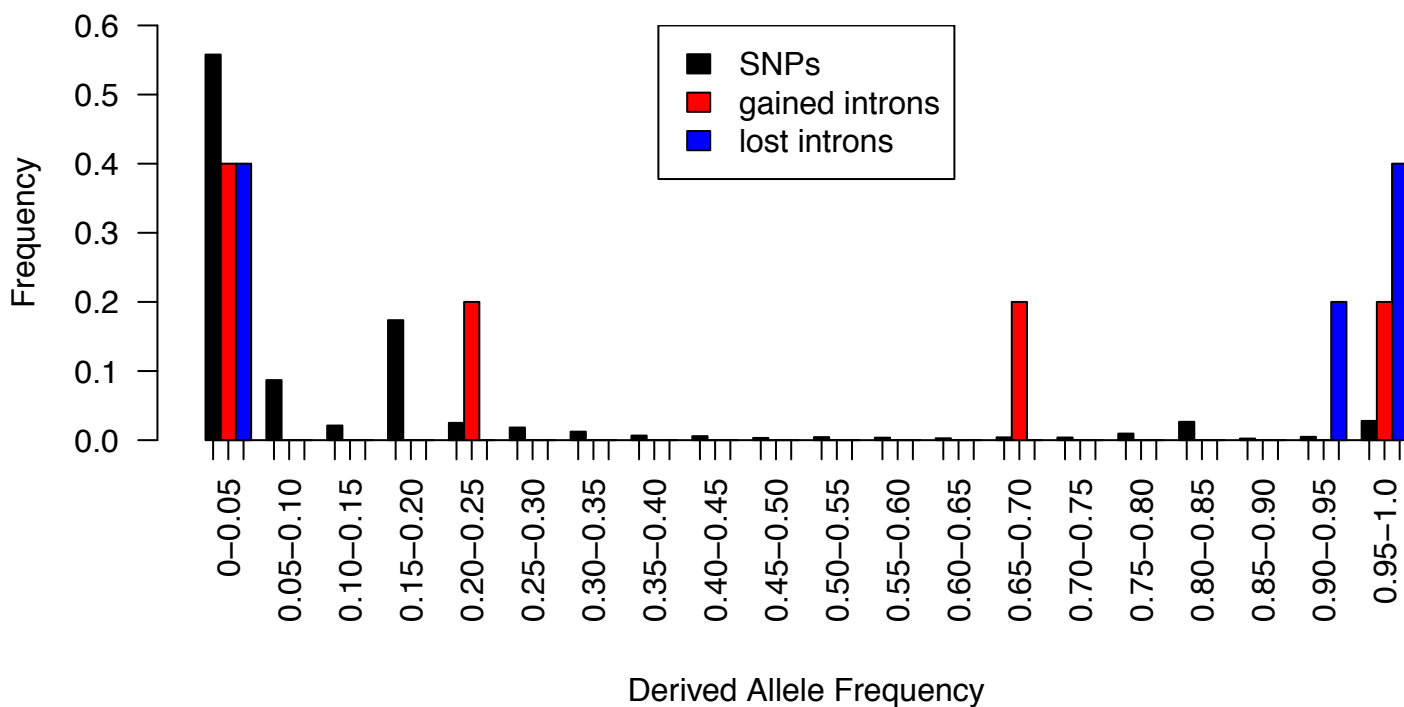


Figure S5. Frequency spectrum of SNPs, gained and lost intron polymorphisms in all *N. tetrasperma* samples.

A. SR region



B. R region

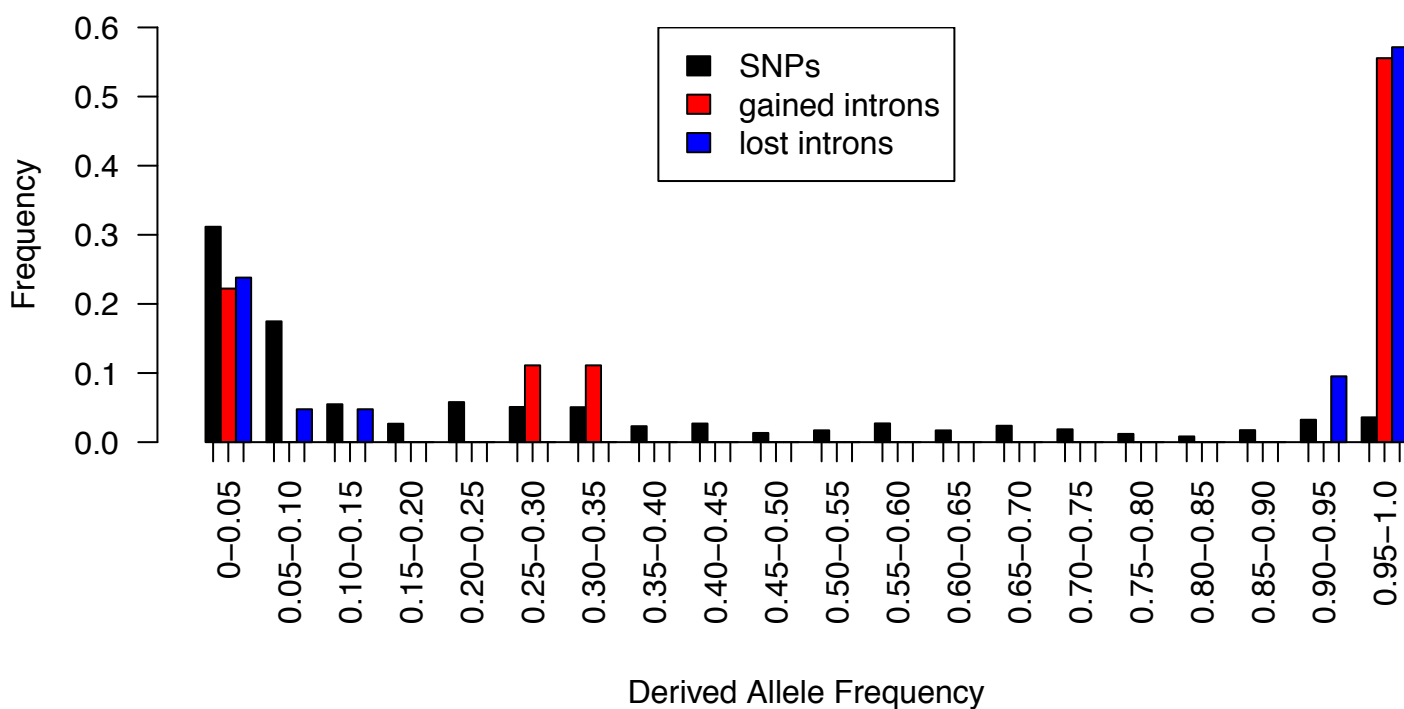
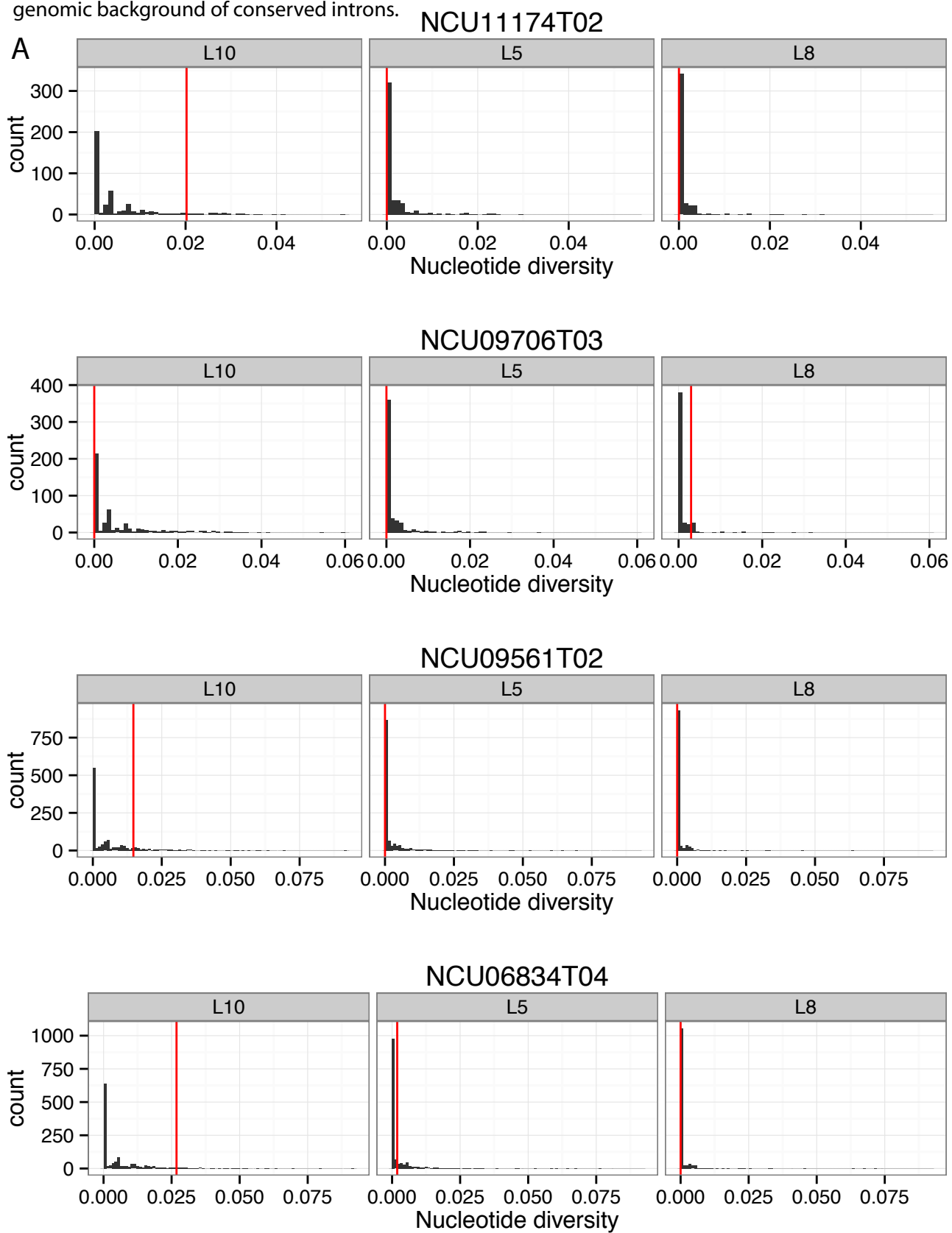
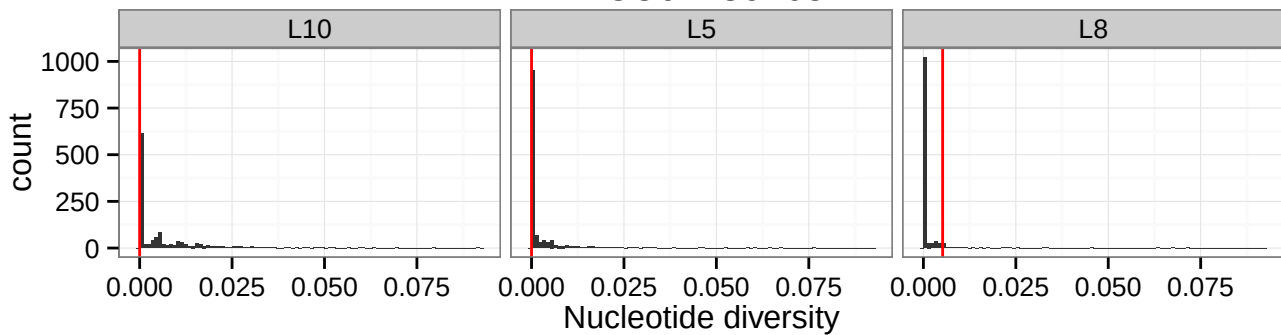


Figure S6. Frequency spectra for SNPs, gained and lost intron polymorphisms in *N. tetrasperma*: (A) recombining region, and (B) suppressed-recombining region.

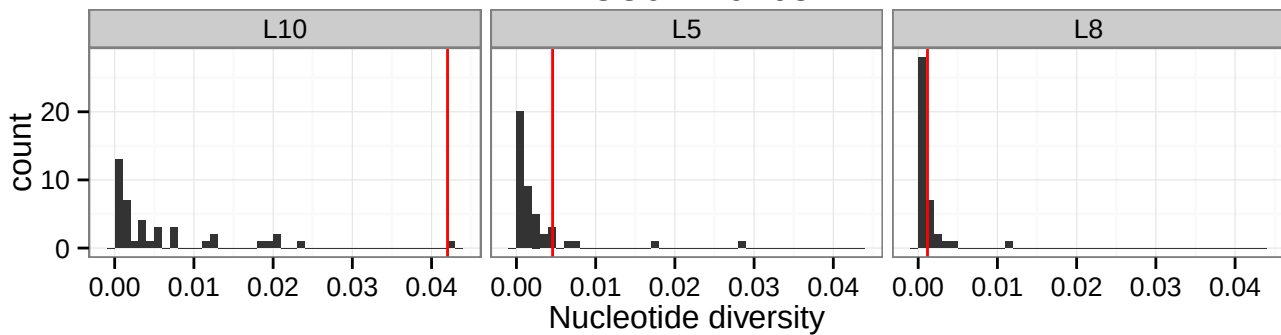
Figure S7. Genetic diversity of (A) fixed introns and (B) polymorphic introns compared to the genomic background of conserved introns.



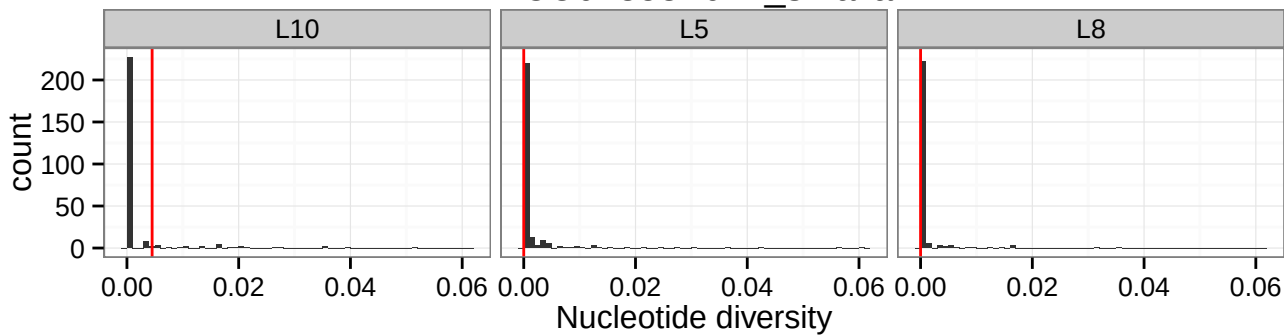
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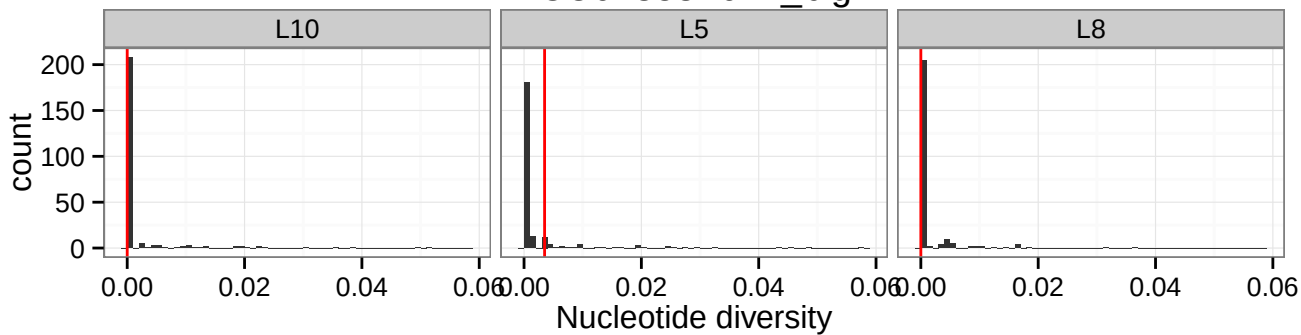
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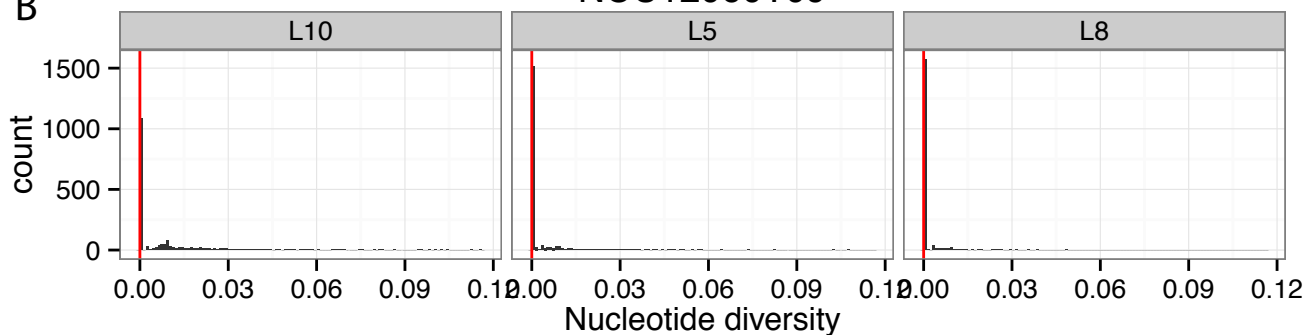


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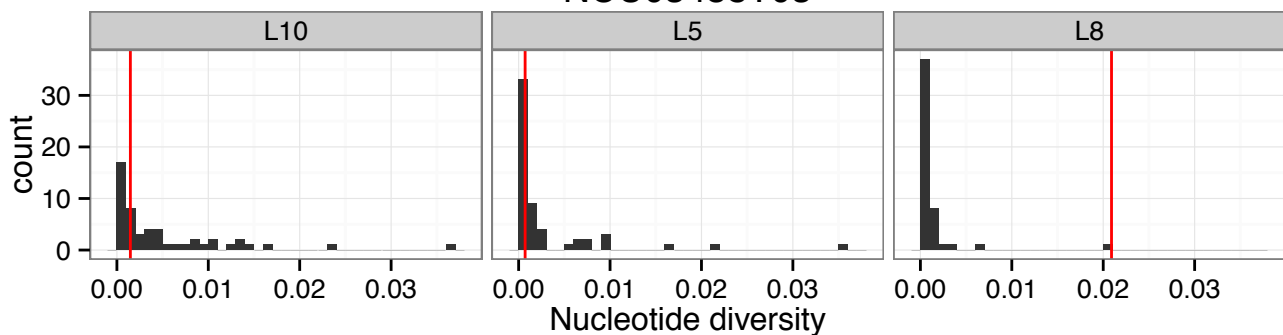


B

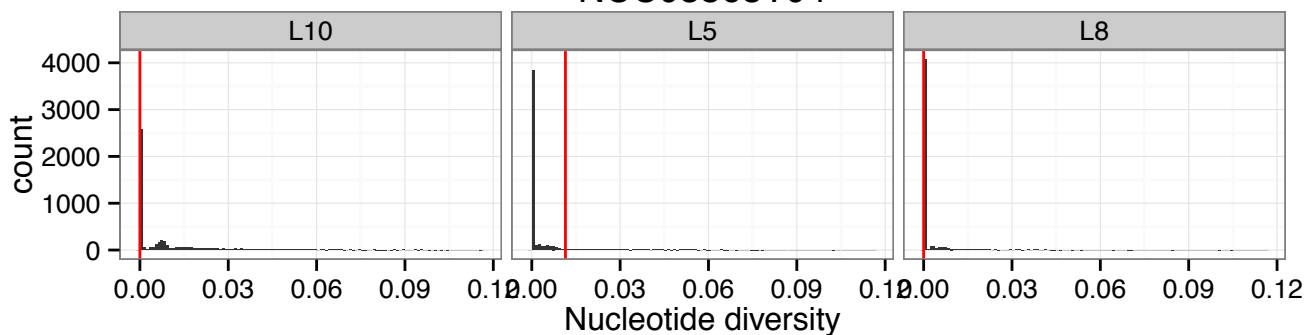
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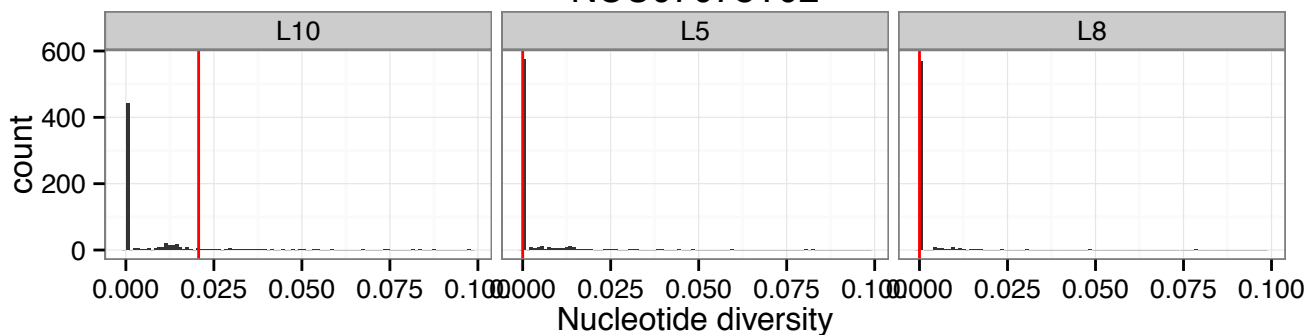
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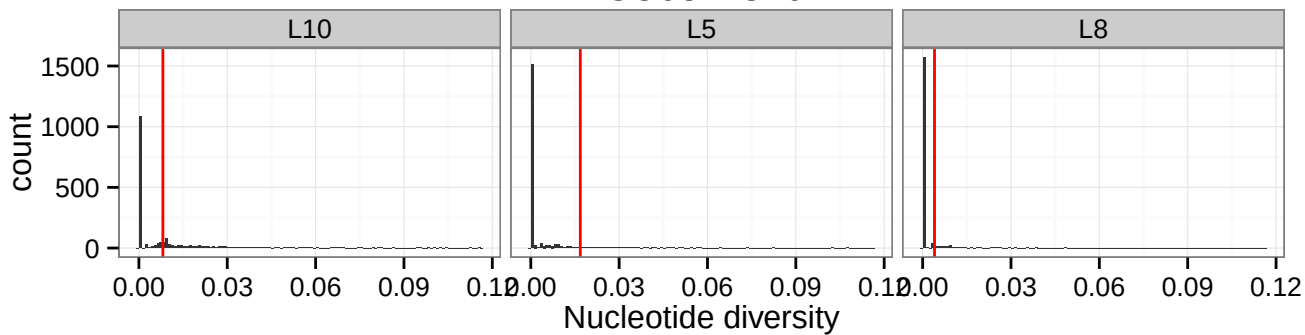
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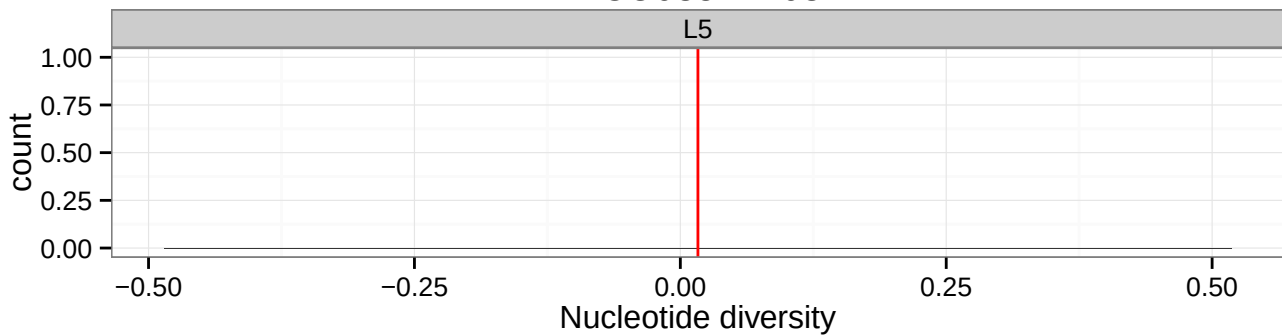
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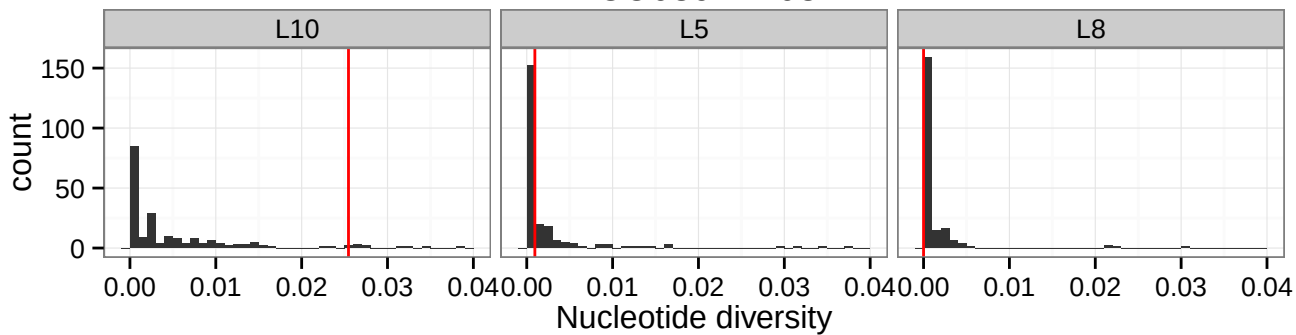
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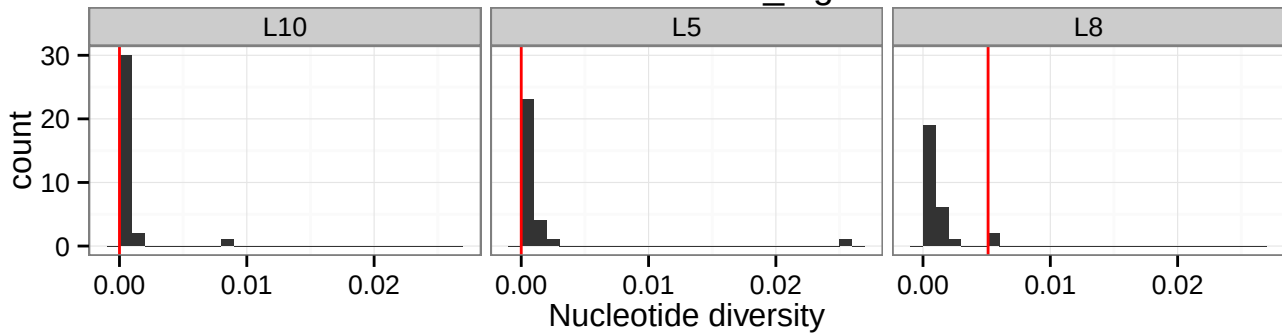
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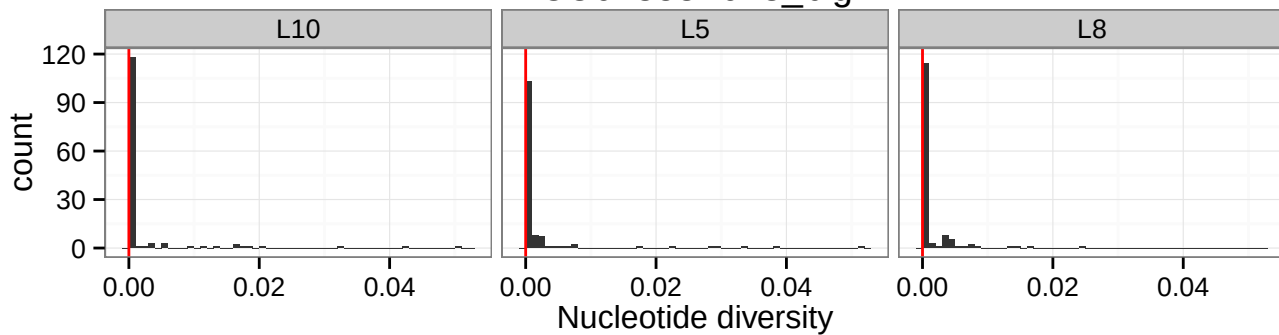
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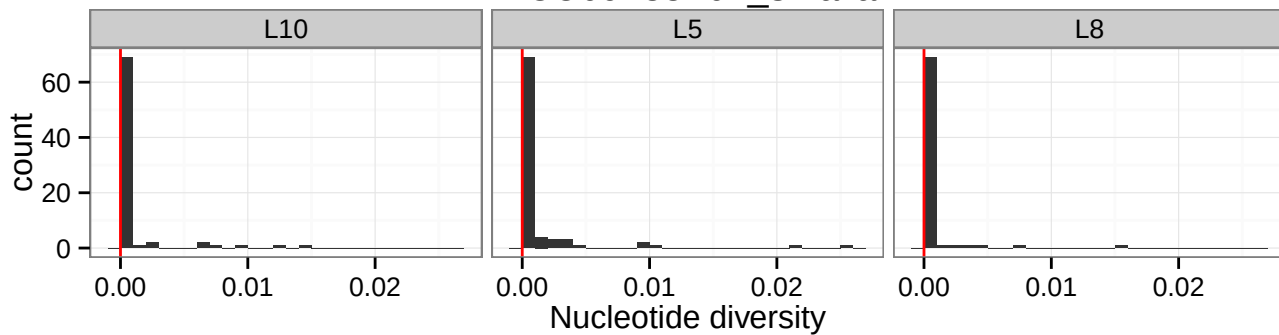
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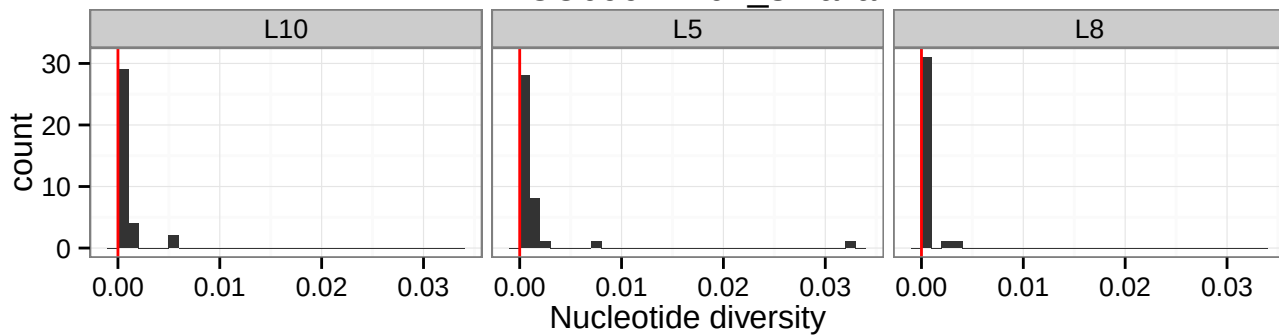
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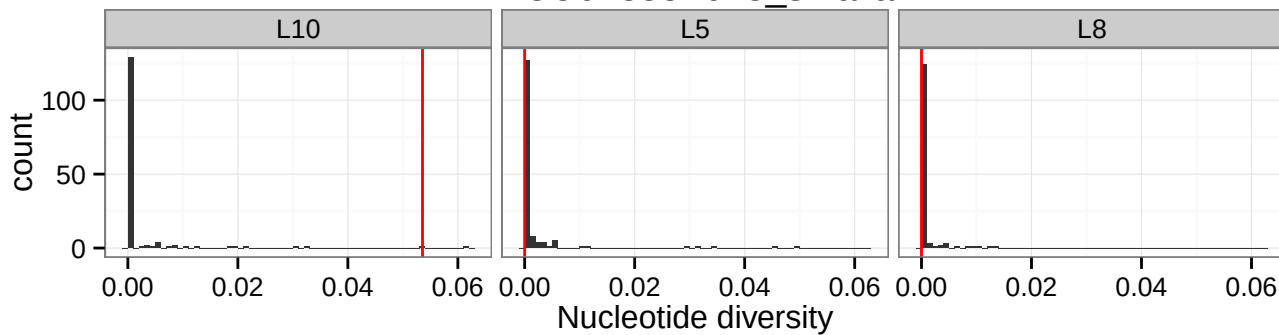
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NCU09971T01_smalla



NCU02858T013_smalla



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CJ81	tccagctcag	aagaag
CJ82	tccaccccaa	cagaag
CJ83	cccagttgag	aagcaa
CJ84	cccagttgag	aagcaa
CJ85	tccaccccaa	cagaag
CJ86	tccaccccaa	cagaag
CJ87	tccaccccaa	cagaag
CJ88	cccagttgag	aagcaa
RLM131_a	tccaccccaa	cagaag
RLM131A	tccaccccaa	cagaag