Supplemental Tables

Table 1: TO BE MADE "An overview of the genes, their original lengths and the lengths of the corresponding sequences in the MSA."

		Edge contraction thresholds							
		None	None	None	l=0.01	l=0.01	l=0.01		
Breakpoints	Selection	None	s=70	s=90	None	s=70	s=90		
Blocks	A (n=12)	9	9	9	9	9	9		
	A- (n=11)	8	7	7	7	6	7		
	B (n=9)	9	7	7	8	7	7		
	B- (n=8)	5	5	5	5	5	4		
	C (n=7)	5	5	4	5	5	4		
	C-(n=6)	1	1	1	1	1	1		
Genes	A (n=12)	23	22	21	19	19	20		
	A- (n=11)	21	17	17	16	15	12		
	B (n=9)	20	22	19	18	19	18		
	B- (n=8)	12	9	9	10	8	8		
	C (n=7)	10	9	9	9	8	8		
	C-(n=6)	1	1	1	1	1	1		

Table 2: Unique trees for different breakpoint location sets, taxon selections (n = number of taxa) and thresholds for edge contraction based on branch length (l) and BS support values (s). "—" indicates that no solution was found within the runtime limit of 5 minutes.

		Edge contraction thresholds								
		None	None	None	l=0.01	l=0.01	l=0.01			
Breakpoints	Selection	None	s=70	s=90	None	s=70	s=90			
Blocks	A (n=12)	2 1 1 0 0	4 2 1 1 1	20000	5 5 6 5 6	4 2 3 2 1	11100			
	A- (n=11)	00001	$1\ 0\ 0\ 0\ 1$	$1\ 1\ 0\ 0\ 1$	$1\ 1\ 0\ 5\ 4$	11110	01000			
	B (n=9)	88887	99957	3 2 2 2 2	$4\ 4\ 3\ 4\ 5$	2 2 1 2 1	99299			
	B- (n=8)	21110	3 3 3 0 0	$5\ 5\ 6\ 5\ 5$	11101	11010	11110			
	C (n=7)	66611	$4\ 4\ 2\ 4\ 4$	11 11 11 8 9	1 3 2 2 1	5 5 9 8 11	4 2 2 2 1			
	C- (n=6)	12011	2 2 1 0 1	1 1 0 1 1	2 2 2 2 2	2 1 1 0 0	2 2 2 2 1			
Genes	A (n=12)	76000	1 3 3 1 0	5 5 3 4 3	2 2 3 3 2	3 2 2 3 3	0 1 8 0 1			
	A- (n=11)	1 1 2 2 1	5 5 5 4 1	2 1 1 1 0	0 2 3 3 3	66668	00011			
	B (n=9)	99992	$2\ 2\ 2\ 2\ 2$	1 2 6 1 3	3 3 3 3 3	78333	5 4 4 4 4			
	B- (n=8)	0 0 0 2 3	$4\ 1\ 1\ 1\ 0$	5 2 5 2 3	11101	11112	10100			
	C (n=7)	12131	5 5 5 1 1	26232	$7\ 6\ 6\ 6\ 2$	38858	3 3 3 4 4			
	C- (n=6)	1 1 1 0 2	2 2 2 0 1	3 2 1 3 0	58777	11110	61101			

Table 3: Reticulation numbers of each of the five networks constructed for different breakpoint location sets, taxon selections (n = number of taxa) and thresholds for edge contraction based on branch length (l) and BS support values (s).