

RICHARD C. CRONN, RANDALL L. SMALL, TAMARA HASELKORN, AND JONATHAN F. WENDEL. 2002.  
 Rapid diversification of the cotton genus (*Gossypium*: Malvaceae) revealed by  
 analysis of sixteen nuclear and chloroplast genes. *American Journal of Botany*  
 89(4): 707-725

#NEXUS

[Cronn et al., "Rapid diversification of the cotton genus (*Gossypium*: Malvaceae)  
 revealed by analysis of sixteen nuclear and chloroplast genes]

[PAUP/NEXUS Data set of 4 combined chloroplast loci. Taxon abbreviations are  
 summarized in Materials and Methods and Table 1.  
 gene order: ndhF = 1-2064; rpl16 = 2065-3221; trnT-trnL = 3222-4817; matK  
 = 4818-7370; Poorly aligned regions need to be removed prior to analysis.  
 These include positions 2537-2585 from rpl16, 3519-3672 from trnT-trnL, and  
 7328-7370 from matK. These positions are defined in the "CHARSET" block at  
 the end of the file]

BEGIN DATA;

DIMENSIONS NTAX=9 NCHAR=7370;  
 FORMAT DATATYPE=DNA MISSING=? GAP=- INTERLEAVE ;

MATRIX

```
[
          10          20          30          40          50
60]
[
.]
A_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
B_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
C_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
D_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
E_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
G_genome   TTTGTTCCACTT??ATTCCTATTTTAATAGGAAT??CTCCTACTTTTTCCGACGGCA
[60]
G_genome   ??????CACTTCCCATTTCCTATTTTAATAGGAATGGGACTCCTACTTTTTCCGACGGCA
[60]
Gossyp.kirkii TTTGTTCCACTTCCCATTTCCTATTTTAATAGGAGT??CTCCTACTTTTTCCGACGGCA
[60]
Kokia.drynar TTTGTTCCACTTCCCATTTCCTATTTTAATAGGAGT??CTCCTACTTTTTCCGACGGCA
[60]

[
          70          80          90          100         110         120]
[
.]
A_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
B_genome   ACAAAAAATCTTCGTCGTATATGGGCTTTTCCCACTATTTTATTGTTAAGTATAGTTATG
[120]
C_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
D_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
E_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
G_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
G_genome   ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]
Gossyp.kirkii ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
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[120]
Kokia.drynar  ACAAAAAATCTTCGTCGTATGTGGGCTTTTCCCAATATTTTATTGTTAAGTATAGTTATG
[120]

[           130           140           150           160           170           180]
[           .           .           .           .           .           .]
A_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
B_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
C_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
D_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
E_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
G_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
G_genome      ATTTTTTCGCTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
Gossyp.kirkii ATTTTTTCGGTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]
Kokia.drynar  ATTTTTTCGGTCGATCTGTCTATTAGCAAATAAATGGAAGTTCTATCTATCAATATGTA
[180]

[           190           200           210           220           230           240]
[           .           .           .           .           .           .]
A_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
B_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
C_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
D_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
E_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
G_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
G_genome      TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
Gossyp.kirkii TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]
Kokia.drynar  TGGTCTTGGACCATCAATAATGATTTTTCTTTCGAGTTTGGCTACTTTATTGATTCACTT
[240]

[           250           260           270           280           290           300]
[           .           .           .           .           .           .]
A_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
B_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
C_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
D_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
E_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
G_genome      ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
G_genome      ACCTCTATTATGTTAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC
[300]
Gossyp.kirkii ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTTCCTTATTATAGTGAC

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[300]
Kokia.drynar ACCTCTATTATGTCAATATTAATCACTACTGTTGGAATTTTGTCTTATTATAGTGAC
[300]

[           310           320           330           340           350           360]
[           .           .           .           .           .           .]
A_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
B_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
C_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
D_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
E_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
G_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
G_genome    AATTATATGTCTCATGATGAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
Gossyp.kirkii AATTATATGTCTCATGATCAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]
Kokia.drynar AATTATATGTCTCATGATCAAGGATATTTGAGATTTTTTGCTTATATGAGTTTGTTC AAT
[360]

[           370           380           390           400           410           420]
[           .           .           .           .           .           .]
A_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
B_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
C_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
D_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
E_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
G_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
G_genome    ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
Gossyp.kirkii ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]
Kokia.drynar ACTTCAATGTTGGGATTAGTTACTAGTTCGAATTTGATACAAATTTATATTTTTTGGGAA
[420]

[           430           440           450           460           470           480]
[           .           .           .           .           .           .]
A_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
B_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
C_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
D_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
E_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
G_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
G_genome    TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]
Gossyp.kirkii TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA

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[480]
Kokia.drynar   TTAGTTGGAATGTGTTCTTATCTATTAATAGGTTTTTGGTTCACACGACCCGCTGCGGCA
[480]

[           490           500           510           520           530           540]
[           .           .           .           .           .           .]
A_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
B_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
C_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
D_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
E_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
G_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
G_genome      AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGTATAGGCGATTTTGGTTTATTATTAGGA
[540]
Gossyp.kirkii AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]
Kokia.drynar   AACGCTTGTCAAAAAGCGTTTGTAAC TAATCGGATAGGCGATTTTGGTTTATTATTAGGA
[540]

[           550           560           570           580           590           600]
[           .           .           .           .           .           .]
A_genome      ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
B_genome      ATCTTAGGTTTCTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
C_genome      ATCTTAGGTTTCTATTGGATAACG GGAAGTTTAGAATTTCAAGATTTGTTTCGAAATATTT
[600]
D_genome      ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
E_genome      ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
G_genome      ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
G_genome      ATCTTAGGTTTCTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
Gossyp.kirkii ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]
Kokia.drynar   ATCTTAGGTTTTTATTGGATAACG GGAAGTTTCGAATTTCAAGATTTGTTTCGAAATATTT
[600]

[           610           620           630           640           650           660]
[           .           .           .           .           .           .]
A_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
B_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTCTTACTTTATGTGCCTCTTTA
[660]
C_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
D_genome      AATAACTTGATTTATAATAATGAG GTTTAATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
E_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
G_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
G_genome      AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]
Gossyp.kirkii AATAACTTGATTTATAATAATGAG GTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA

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[660]
Kokia.drynar AATAACTTGATTTATAATAATGAGGTTTCATTTTTTATTTGTTACTTTATGTGCCTCTTTA
[660]

[           670           680           690           700           710           720]
[           .           .           .           .           .           .]
A_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCTCAATTTCTTTCATGTATGGTTACCTGAT
[720]
B_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
C_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
D_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
E_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
G_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
G_genome    TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
Gossyp.kirkii TTATTTGCCGGCGCAGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]
Kokia.drynar TTATTTGCCGGCGCGGTTGCTAAATCTGCGCAATTTCTTTCATGTATGGTTACCTGAT
[720]

[           730           740           750           760           770           780]
[           .           .           .           .           .           .]
A_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
B_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
C_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
D_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
E_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
G_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
G_genome    GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
Gossyp.kirkii GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]
Kokia.drynar  GCCATGGAGGGGCTACTCCTATTTTCGGCTCTTATACATGCTGCCACTATGGTAGCTGCG
[780]

[           790           800           810           820           830           840]
[           .           .           .           .           .           .]
A_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
B_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
C_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
D_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
E_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
G_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
G_genome    GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT
[840]
Gossyp.kirkii GGAATTTTTCTGTAGCCCGCTGCTTCCTTTTTTATAGTTATACCTTACATAATGAAT

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[840]
Kokia.drynar  GGAATTTTTCTGTAGCCCGCCTTCTTCCTCTTTTTATAGTTATAACCTTACATAATGAAT
[840]

[           850           860           870           880           890           900]
[           .           .           .           .           .           .]
A_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
B_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
C_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
D_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
E_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
G_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
G_genome     CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCTACTTTAGCCCTTGCTCAA
[900]
Gossyp.kirkii  CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCCACTTTAGCCCTTGCTCAA
[900]
Kokia.drynar  CTAATATCTTTGATAGGTATAATAACGGTATTATTAGGGGCCACTTTAGCCCTTGCTCAA
[900]

[           910           920           930           940           950           960]
[           .           .           .           .           .           .]
A_genome     AACGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
B_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
C_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
D_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
E_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
G_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
G_genome     AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
Gossyp.kirkii  AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]
Kokia.drynar  AAAGATATTAAGAGGGGTTTAGCCTATTCTACAATGTCCCAACTGGGTTATATGATGTTA
[960]

[           970           980           990           1000          1010          1020]
[           .           .           .           .           .           .]
A_genome     GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
B_genome     GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
C_genome     GCTCTAGGTATGGGGTCTTACCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
D_genome     GCTCTAGGTATGGGGTCTTATCGCGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
E_genome     GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
G_genome     GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
G_genome     GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG
[1020]
Gossyp.kirkii  GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTTCG

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[1020]
Kokia.drynar GCTCTAGGTATGGGGTCTTATCGAGCCGCTTTATTTTCATTTGATTACTCATGCTTATTCCG
[1020]

[
          1030      1040      1050      1060      1070      1080]
[
          .         .         .         .         .         .]
A_genome AAAGCGTTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
B_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
C_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
D_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
E_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
G_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
G_genome AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
Gossyp.kirkii AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]
Kokia.drynar AAAGCATTGTTGTTTTTAGCATCCGGATCGATTATTCATTCCATGGAAGCTATTGTTGGA
[1080]

[
          1090      1100      1110      1120      1130      1140]
[
          .         .         .         .         .         .]
A_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
B_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
C_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
D_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
E_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
G_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
G_genome TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCATGTGCC
[1140]
Gossyp.kirkii TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]
Kokia.drynar TATTCTCCAGAGAAAAGCCAGAATATGGTTTTTATGGGCGGTTTAAGAAAGCACGTGCC
[1140]

[
          1150      1160      1170      1180      1190      1200]
[
          .         .         .         .         .         .]
A_genome GTTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
B_genome ATTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
C_genome ATTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
D_genome ATTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
E_genome ATTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
G_genome GTTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
G_genome ATTACCCAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]
Gossyp.kirkii ATTACACAAATGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT

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[1200]
Kokia.drynar ATTACACAAATTGCTTTTTTAGTAGGTACACTTTCTCTTTGTGGTATTCCACCCCTTGCT
[1200]

[
          1210      1220      1230      1240      1250      1260]
[
A_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
B_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
C_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
D_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
E_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
G_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
G_genome    TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCACGATTTTTTGCA
[1260]
Gossyp.kirkii TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCCGATTTTTTGCA
[1260]
Kokia.drynar TGTTTTTGGTCCAAAGATGAAATTCTTAGTGACAGTTGGTTGTATTCCCGATTTTTTGCA
[1260]

[
          1270      1280      1290      1300      1310      1320]
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A_genome    ATAATAGCTTGGTCCACTGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
B_genome    ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
C_genome    ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
D_genome    ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
E_genome    ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
G_genome    ATAATAGCTTGGTCCACTGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
G_genome    ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
Gossyp.kirkii ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]
Kokia.drynar  ATAATAGCTTGGTCCACCGCCGGATTAACAGCATTTTATATGTTTCGGATCTATTTACTT
[1320]

[
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[
A_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]
B_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]
C_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGTCAAAAAAAGTAGCTCT
[1380]
D_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]
E_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]
G_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]
G_genome    ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGTCAAAAAAAGTAGCTCT
[1380]
Gossyp.kirkii ACTTTTGAAGGACATTTAAACGTTCAATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT

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[1380]
Kokia.drynar  ACTTTTGAAGGACATTTAAACGTTTATTTTCAAAAATATAGTGGCAAAAAAAGTAGCTCT
[1380]

[           1390           1400           1410           1420           1430           1440]
[           .           .           .           .           .           .]
A_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
B_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
C_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
D_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGCAATTTTCGT
[1440]
E_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
G_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
G_genome      TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAAATTTTCGT
[1440]
Gossyp.kirkii TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGGATTTTCGT
[1440]
Kokia.drynar  TTCTATTCAATAAAACTATGGGGTAAAGAAGAGCAAAAAATAATTAACAGAGATTTTCGT
[1440]

[           1450           1460           1470           1480           1490           1500]
[           .           .           .           .           .           .]
A_genome      TTATTTCCTTTATTA-----ACAATGAATAACAACGAGCAGCCATATACAATTGGTGG
[1494]
B_genome      TTATTTCCTTTATTA-----ACAATGAATAACAACGAGCAGCCATATACAATTGGTGG
[1494]
C_genome      TTATTTCCTTTATTAACATTAACAATGAATAACAACGAGCAGCCATATACAATTGTTGG
[1500]
D_genome      TTATTTCCTTTATTACCATTAACAATGAATAAGAACGAGCAGCCATATACAATTGGTGAA
[1500]
E_genome      TTATTTCCTTTATTA-----ACAATGAATAACAACGAGCAGCCATATACAATTGGTGG
[1494]
G_genome      TTATTTCCTTTATTAACATTAACAATGAATAACAACGAGCAGCCATATACAATTGGTGG
[1500]
G_genome      TTATTTCCTTTATTAACATTAACAATGAATAACAACGAGCAGCCATATACAATTGGTGG
[1500]
Gossyp.kirkii TTATTTCCTTTATTAACATTAACAATGAATAACAACGAGCAGCCATATACAATTGGCGTA
[1500]
Kokia.drynar  TTATTTCCTTTATTAACATTAACAATGAATAACAACGAGCAGCCATATACAATTGGCGTA
[1500]

[           1510           1520           1530           1540           1550           1560]
[           .           .           .           .           .           .]
A_genome      AAAAAAGAAGCTCGTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1554]
B_genome      AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1554]
C_genome      AAAAAAGAAGCTTTTATTAATATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1560]
D_genome      AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1560]
E_genome      AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1554]
G_genome      AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1560]
G_genome      AAAAAAGAAGCTTTTATTAATATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1560]
Gossyp.kirkii AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT

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[1560]
Kokia.drynar  AAAAAAGAAGCTCTTATTACTATTACGAATTTTGGCTACAAGAAGGCTTTTCTTATCCT
[1560]

[           1570           1580           1590           1600           1610           1620]
[           .           .           .           .           .           .]
A_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1614]
B_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1614]
C_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]
D_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]
E_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATACTGCTTCTATTTACTTTATTT
[1614]
G_genome     CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]
G_genome     TATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]
Gossyp.kirkii CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]
Kokia.drynar  CATGAATCAGATAAATACTATGCTATTTCCCTATGCTTATATTGCTTCTATTTACTTTATTT
[1620]

[           1630           1640           1650           1660           1670           1680]
[           .           .           .           .           .           .]
A_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1674]
B_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1674]
C_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1680]
D_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1680]
E_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
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G_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1680]
G_genome     GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1680]
Gossyp.kirkii GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
[1680]
Kokia.drynar  GTTGGAGCTATAGCAATTCCTTTTAATCAAGAAGGAATGCATTTGGATATATTATC AAAA
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[           1690           1700           1710           1720           1730           1740]
[           .           .           .           .           .           .]
A_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
[1734]
B_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
[1734]
C_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
[1740]
D_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
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E_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
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G_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
[1740]
G_genome     TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT
[1740]
Gossyp.kirkii TTATTAACCTCCATCTATAAACTTTTACATCAA AATTCAAATGATTTTGAGGATTCGTAT

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[1740]
Kokia.drynar TTATTAACCTCCATCTATAAACTTTTTACATCAAATTCAAATGATTTTGAGGATTCGTAT
[1740]

[          1750          1760          1770          1780          1790          1800]
[          .          .          .          .          .          .]
A_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1794]
B_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
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C_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1800]
D_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1800]
E_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1794]
G_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1800]
G_genome CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1800]
Gossyp.kirkii CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTCGGAATATTTACAGCA
[1800]
Kokia.drynar CAATTTTTTAAAAATGCAACTTTTTTCAGTGAGTATAGCTTGTTTGGAATATTTACAGCA
[1800]

[          1810          1820          1830          1840          1850          1860]
[          .          .          .          .          .          .]
A_genome TTCCTTTTATATAAACCTTTTTATTTCATCTGTACAAAATTTAAACTTACTAAATTCATTT
[1854]
B_genome TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTAAACTTACTAAATTCATTT
[1854]
C_genome TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTAAACTTACTAAATTCATTT
[1860]
D_genome TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTAAACTTCTAAATTCATTT
[1860]
E_genome TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTAAACTTACTAAATTCATTT
[1854]
G_genome TTCCTTTTATATAAACCTTTTTATTTCATCTGTACAAAATTTAAACTTACTAAATTCATTT
[1860]
G_genome TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTAAACTTACTAAATTCATTT
[1860]
Gossyp.kirkii TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTGAACTTACTAAATTCATTT
[1860]
Kokia.drynar TTCCTTTTATATAAACCTTTTTATTTCATCTTTACAAAATTTGAACTTACTAAATTCATTT
[1860]

[          1870          1880          1890          1900          1910          1920]
[          .          .          .          .          .          .]
A_genome GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1914]
B_genome GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1914]
C_genome GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1920]
D_genome GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTTATATATGATTGG
[1920]
E_genome GTGAAAAGGGGTCCTAAAAGGATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1914]
G_genome GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1920]
G_genome GTTAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATATTTGATATATGATTGG
[1920]
Gossyp.kirkii GTGAAAAGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATACTTGATATATGATTGG

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[1920]  
 Kokia.drynar GCGAAAGGGGGTCCTAAAAGAATTTTATTGGATAAAATGATATACTTGATATATGATTGG  
 [1920]

[ 1930 1940 1950 1960 1970 1980]  
 [ . . . . . ]  
 A\_genome TCATATAATCGTGGTTACATAGATATGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1974]  
 B\_genome TCATATAATCGTGGTTACATAGATATGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1974]  
 C\_genome TCATATAATCGTGGTTACATAGATATGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1980]  
 D\_genome TCATATAATCGTGGTTACATAGATCTGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1980]  
 E\_genome TCGTATAATCGTGGTTACATAGATATGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
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 G\_genome TCATATAATCGTGGTTACATAGATATGTTTTATTCAATATCCTTAACAAAAGGGATAAGA  
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 [1980]  
 Gossyp.kirkii TCATATAATCGTGGTTACATAGATACGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1980]  
 Kokia.drynar TCATATAATCGTGGTTACATAGATACGTTTTATTCAATATCCTTAACAAAAGGTATAAGA  
 [1980]

[ 1990 2000 2010 2020 2030 2040]  
 [ . . . . . ]  
 A\_genome GGATTGGCCGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAATGGA  
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 B\_genome GGATTGGCAGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAACGGA  
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 C\_genome GGATTGGCAGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAACGGA  
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 D\_genome GGATTGGCAGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAACGGA  
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 E\_genome GGATTGGCCGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAACGCA  
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 G\_genome GGATTGGCCGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAATGGA  
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 Kokia.drynar GGATTGGCAGAACTAACTCATTTTTTTTGATAGGCGAGTAATCGATGGAATTACAAATGGA  
 [2040]

[ 2050 2060 2070 2080 2090 2100]  
 [ . . . . . ]  
 A\_genome GTAGGCATTACAAGTTTTTTTGTGAAATGGGCGGACCACAGTATAAGCTAATAACTATAG  
 [2094]  
 B\_genome GTAGGCATTACAAGTTTTTTTGTGAAATGGGCGGACCACAGTATAAGCTAATAACTATAG  
 [2094]  
 C\_genome GTAGGCATTACAAGTTTTTTTGTGAAATGGGCGGACCACAGTATAAGCTAATAACTATAG  
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 D\_genome GTAGGCATTACAAGTTTTTTTGTGAAATGGGCGGACCACAGTATAAGCTAATAACTATAG  
 [2100]  
 E\_genome GTAGGCATTACAAGTTTTTTTGTG????????????????????????????????AATAACTATAG  
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 G\_genome GTAGGCATTACAAGTTTTTTTGTG????????????????CACAGTATAAGCTAATAACTATAG  
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 G\_genome GTAGGCAT????????????????????AAATGGGCGGACCACAGTATAAGCTAATAACTATAG  
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[2100]
Kokia.drynar GTAGGCATTACAAGTTTTTTTTGTGAAATGGGCGGACCACAGTATAAGCTAATAACTATAG
[2100]

[
          2110      2120      2130      2140      2150      2160]
[
          .         .         .         .         .         .]
A_genome    CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
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B_genome    CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2154]
C_genome    CACTAAGAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2160]
D_genome    CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2160]
E_genome    CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
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G_genome    CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
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G_genome    CACTAAGAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2160]
Gossyp.kirkii CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2160]
Kokia.drynar CACTAATAACCAACTCATCGCTTCGGATTATCTGGATCCAAAGAATCAGTCAAGATATGA
[2160]

[
          2170      2180      2190      2200      2210      2220]
[
          .         .         .         .         .         .]
A_genome    TATATTGGTCATATCATTATAGCAACTGAATTTTTTTT-GCATTAAAGTAAAAGACAAAAC
[2213]
B_genome    TATATTGGTCATATCATTATAGCAACTGAATCTTTTTTT-GCATTAAAGGAAAAGACAAAAC
[2213]
C_genome    TATATTGATCATATCATTATAGCAACTGAATTTTTTTT--GCATTAAAGTAAAAGACAAAAC
[2218]
D_genome    TATATTGGTCATATCATTATAGCAACTGAATTTTTTTT-GCATTAAAGTAAAAGACAAAAC
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E_genome    TATATTGGTCATATCATTATAGCAACTGAATTTTTTTTTGCATTAAAGTAAAAGACAAAAC
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G_genome    TATATTGGTCATATCATTATAGCAACTGAATTTTTTTT-GCATTAAAGTAAAAGACAAAAC
[2219]
G_genome    TATATTGGTCATATCATTATAGCAACTGAATTTTTTTT--GCATTAAAGTAAAAGACAAAAC
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Gossyp.kirkii TATCTTGGTCATATCATTATAGCAACTGAATTTTTTTT-GCATTAAAGTAAAAGACAAAAC
[2219]
Kokia.drynar TATCTTGGTCATATCATTATAGCAACTGAATTTTTTTT-GCATTAAAGTAAAAGACAAAAC
[2219]

[
          2230      2240      2250      2260      2270      2280]
[
          .         .         .         .         .         .]
A_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
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B_genome    CAATCTGATTATGAATAGATCGAA-----GAAGCAAATAAAAAGTATGTGGATAAATAG
[2268]
C_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
[2278]
D_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
[2279]
E_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
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G_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
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G_genome    CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG
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Gossyp.kirkii CAATCTGATTATGAATAGATCGAAATTGTGAAGCAAATAAAAAGTATGTGGATAAATAG

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[2279]
Kokia.drynar CAATCCGATTATGAATAGATCGAAATTGGGAAGCAAATAAAAAGTATGTGGATAAATAG
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[           2290           2300           2310           2320           2330           2340]
[           .           .           .           .           .           .]
A_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2333]
B_genome    AAGGATGAGAGAAAGAGAGAGAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2328]
C_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTC-AATATGT
[2337]
D_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGACATAGGATTCCAATATGT
[2339]
E_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2334]
G_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2339]
G_genome    AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTC-AATATGT
[2337]
Gossyp.kirkii AAGGATGAGAGAAAGCGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2339]
Kokia.drynar AAGGATGAGAGAAAGAGAGAGAAACAGAAATAGCAATGAAATGATATAGGATTCCAATATGT
[2339]

[           2350           2360           2370           2380           2390           2400]
[           .           .           .           .           .           .]
A_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2392]
B_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2387]
C_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2396]
D_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
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E_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2393]
G_genome    AAGGTCTATGAAGCATCTCATAAAGAGCATATGTAATAGAGCATCAATAGAGATTCATCA
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G_genome    AAGGTCTATGAAGCATCTCATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2396]
Gossyp.kirkii AAGGTCTATGAAGCATCTAATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
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Kokia.drynar AAGGTCTATGAAGCATCTAATAAAGAGCA-ATGTAATAGAGCATCAATAGAGATTCATCA
[2398]

[           2410           2420           2430           2440           2450           2460]
[           .           .           .           .           .           .]
A_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
[2452]
B_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
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C_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
[2456]
D_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
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E_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
[2453]
G_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
[2459]
G_genome    ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA
[2456]
Gossyp.kirkii ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACCTAAGTCAATA

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[2458]
Kokia.drynar   ATAATTAGATGAATATCTGTTTCATTGAAGAAAAAATCAAGAGCCTTAACTTAAGTCAATA
[2458]

[
          2470      2480      2490      2500      2510      2520]
[
A_genome   AAGACTGAGAAGGTTGACTCAAGAAAGAAATTTT-ATTT-----TTA-----TT
[2495]
B_genome   AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTT-ATTT-----TTA-----TT
[2489]
C_genome   AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTT-ATTT-----TTA-----TT
[2498]
D_genome   AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTT-ATTT-----TTA-----TT
[2500]
E_genome   AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTT-ATTT-----TTA-----TT
[2495]
G_genome   AAGACTGAGAAGGTTGACTCAAGAA-GAAATTT-CATTT-----TT-----TT
[2500]
G_genome   AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTTTATTT-----TTA-----TT
[2499]
Gossyp.kirkii AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTT-ATTCATTTTAA-----TT
[2505]
Kokia.drynar AAGACTGAGAAGGTTGACTCAAGAAC-AAATTTG-ATTCATTTTATTTTCATTTTATTT
[2516]

[
          2530      2540      2550      2560      2570      2580]
[
A_genome   TTATTTAAATAAATATTTAAAT-TAAAAAATTTAAATTAAT-----AAATATTA-
[2540]
B_genome   TTATTTAAATAAATAG-----AAATATAAA
[2513]
C_genome   TTATTTAAATAAATAGT-----AAAATTTAA
[2523]
D_genome   TTATTTAAATAAATAG-----AA
[2517]
E_genome   TTATTTAAATAAATAG-----AA
[2512]
G_genome   TTATTTAAATAAATATTTAAAT-TA-----AAATATTTAA
[2531]
G_genome   TTATTTAAATAAATAGAAA-----
[2517]
Gossyp.kirkii TTATTTAAATAAATAGTA-----AAAAAATAA
[2531]
Kokia.drynar TTATTTAAATAAATATTTAAATATTTAAATATTTAAATATTTAAATATTTAAATATTTAA
[2576]

[
          2590      2600      2610      2620      2630      2640]
[
A_genome   ---ATAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2597]
B_genome   AT-TTAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2572]
C_genome   ATTTTATATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2583]
D_genome   ATATTTAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2577]
E_genome   ATATAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2572]
G_genome   ATTTAAAAATGAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2591]
G_genome   ---TTAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG
[2574]
Gossyp.kirkii ATATTTAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAAATCGAGAGCGATGGGG

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[2591]
Kokia.drynar ATATTAAATTAAGGCTCCATTGGAGAATTCAGACCTAAGCATTAATCGAGAGCGATGGGG
[2636]

[           2650           2660           2670           2680           2690           2700]
[           .           .           .           .           .           .]
A_genome    ACGACGGAACCCGTGAATGCAGAG-ATTCTAT-----TGAAAACGAATCCTAATGATT
[2649]
B_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2625]
C_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTATTGAAAACGAAAACGAATCCTAATGATT
[2643]
D_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2630]
E_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2625]
G_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2644]
G_genome    ACGACGGAACCCGTGAATGCGGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2627]
Gossyp.kirkii ACGACGGAACCCGTGAATGCAGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2644]
Kokia.drynar ACGACGGAACCCGTGAATGCAGAGGATTCTAT-----TGAAAACGAATCCTAATGATT
[2689]

[           2710           2720           2730           2740           2750           2760]
[           .           .           .           .           .           .]
A_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2709]
B_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2685]
C_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2703]
D_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2690]
E_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2685]
G_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2704]
G_genome    TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATTTCTTTTTATTCTGATTCTG
[2687]
Gossyp.kirkii TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATCTCTTTTTATTCTGATTCTG
[2704]
Kokia.drynar TATCGGGGAGGATGGCGGAACAAACCAGAGACCACTGCATCTCTTTTTATTCTGATTCTG
[2749]

[           2770           2780           2790           2800           2810           2820]
[           .           .           .           .           .           .]
A_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2769]
B_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2745]
C_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2763]
D_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2750]
E_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2745]
G_genome    AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2764]
G_genome    AGAGGTTATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2747]
Gossyp.kirkii AGAGGTCATGGGTTAACCCGACAACCTGAAGTAGAAAAAGAGTAAATATTCGCCCGCGAAA

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[2764]
Kokia.drynar  AGAGGTCATGGGTTAACCCGACAACTGAACTAGAAAAAGAGTAAATATTCGCCCGCGAAA
[2809]

[           2830           2840           2850           2860           2870           2880]
[           .           .           .           .           .           .]
A_genome      ATTTGAGTTTAATT-----TGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2824]
B_genome      ATTTGAGTTTAATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2805]
C_genome      ATTTGAGTTTAATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2823]
D_genome      ATTTGAGTTTAATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2810]
E_genome      ATTTGAGTTTCATTTTATTTGATTGGTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2805]
G_genome      ATTTGAGTTTAATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2824]
G_genome      ATTTGAGTTTAATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2807]
Gossyp.kirkii ATTTGAGTT-AATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2823]
Kokia.drynar  ATTTGAGTT-AATTTTATTTGATTGTTCAATTTTTGTCGATCTGAATCTGATATGAATAT
[2868]

[           2890           2900           2910           2920           2930           2940]
[           .           .           .           .           .           .]
A_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2884]
B_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2865]
C_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2883]
D_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2870]
E_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2865]
G_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2884]
G_genome      GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAACCAAGATAAGACATTAT
[2867]
Gossyp.kirkii GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAAGCAAGATAAAACATTAT
[2883]
Kokia.drynar  GATAAAAAACAAAATAAAGATTCGTTATAACATTATAACAAAAGCAAGATAAAACATTAT
[2928]

[           2950           2960           2970           2980           2990           3000]
[           .           .           .           .           .           .]
A_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACTTATATATATATATCCAATAGATCCAAC
[2944]
B_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACT--TATATATATCCAATAGATCCAAC
[2923]
C_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACT---TATATATCCAATAGATCCAAC
[2939]
D_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACT--TATATATATCCAATAGATCC?AAC
[2928]
E_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATATTTATATATATATATCCAATAGATCCAAC
[2925]
G_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACTTATATATATATATCCAATAGATCCAAC
[2944]
G_genome      CTAGAAATAGAATCCGTGTTAATTCCTTATACT---TATATATCCAATAGATCCAAC
[2923]
Gossyp.kirkii CTAGAAATAGAATCCGTGTTAATTC-----TTATATATATATCCAATATATCCAAC

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[2937]
Kokia.drynar CTAGAAATAGAATCCGAGTTTAATTCC-----TTATATATATATCCAATATATCCAAAC
[2982]

[           3010           3020           3030           3040           3050           3060]
[           .           .           .           .           .           .]
A_genome    AAGATATACAAATTTCTAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[3004]
B_genome    AAGATATACAAATTTCTAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[2983]
C_genome    AAGACATACAAATTTATAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCAAAGATTCA
[2999]
D_genome    AAGATATACAAATTTCTAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[2988]
E_genome    AAGATATACAAATTTATAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[2985]
G_genome    AAGATATACAAATTTCTAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[3004]
G_genome    AAGATATACAAATTTATAATAGATCAGATAAAAATCGCAAAGCAAAGAATCCCAAGATTCA
[2983]
Gossyp.kirkii AAGATAGACAAATTTCTAATAGATCAGATAAAAATCTCAAAGCAAAGAATCCCAAGATTCT
[2997]
Kokia.drynar AAGATATACAAATTTCTAATAGATCAGATAAAAATCTCAAAGCAAAGAATCCCAAGATTCT
[3042]

[           3070           3080           3090           3100           3110           3120]
[           .           .           .           .           .           .]
A_genome    ATTATTCATTAACCTACCGTATATCTTAAGATTAAGAATTAATATTTTTTTTATTTCATTT
[3064]
B_genome    ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3043]
C_genome    ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3059]
D_genome    ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3048]
E_genome    ATTATTCATT-----CTGTATATCTTAAGATTAAGAATTAATATTTTTTTTATTTCATTT
[3039]
G_genome    ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTATTTCATTT
[3064]
G_genome    ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3043]
Gossyp.kirkii ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3057]
Kokia.drynar ATTATTCATTAACCTACCTGTATATCTTAAGATTAAGAATTAATATTTTTTTTAGTCATTT
[3102]

[           3130           3140           3150           3160           3170           3180]
[           .           .           .           .           .           .]
A_genome    TTTTTTT-CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3123]
B_genome    TTTTTTT--CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3101]
C_genome    TTTTTTT--CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3117]
D_genome    TTTTTTTTTCGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3108]
E_genome    TTTTTTTT-CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3098]
G_genome    TTTTTT--CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3121]
G_genome    TTTTTT--CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3100]
Gossyp.kirkii TTTTTTT--CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT

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[3115]
Kokia.drynar   TTTTTTT-CGCGAGGAGCTGGATGAGAAGAACTCTCATGTCCAGTTCTGTAGTAGAGAT
[3161]

[           3190           3200           3210           3220           3230           3240]
[           .           .           .           .           .           .]
A_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGGTATCCATA
[3183]
B_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGTATCCATA
[3161]
C_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGTATCCATA
[3177]
D_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGGTATCCATA
[3168]
E_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGGTATCCATA
[3158]
G_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGGTATCCATA
[3181]
G_genome      GGAATTCATAAAACAACAACCATCAACTATAACCCCAAAGATAGAAATTTGTATCCATA
[3160]
Gossyp.kirkii GGAATTCATAAACAA--AC-ATCAACTATAACCCCAAAGATAGAAATTT-----
[3162]
Kokia.drynar  GGAATTCATAAACAA--AC-ATCAACTATAACCCCAAAGA??GAAATTTGTATCCATA
[3218]

[           3250           3260           3270           3280           3290           3300]
[           .           .           .           .           .           .]
A_genome      GGGATTCAGCAAACCTATTAG-ATCTTATCTATT-----AACTATCTATTAGTTA
[3231]
B_genome      GGGATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTATCTATTAGTTA
[3210]
C_genome      GG-ATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTATCTATTAGTTA
[3225]
D_genome      GGGATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTATCTATTAGTTA
[3217]
E_genome      GGGATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTGTCTATTAGTTA
[3207]
G_genome      GGGATTCAGCAAACCTATTAG-ATCTTATCTATT-----AACTATCTATTAGTTA
[3229]
G_genome      GGGATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTATCTATTAGTTA
[3209]
Gossyp.kirkii -----AGACTCGAATTTACTATCTATTAGTTA
[3189]
Kokia.drynar  GGGATTCAGCAAACCTATTAGGATCTTATCTATT-----AACTATCTATTAGTTA
[3267]

[           3310           3320           3330           3340           3350           3360]
[           .           .           .           .           .           .]
A_genome      TTCATAATTAATATGAATTATTAATATGAATTAGAGACTCGAATTTAGAAAACTAGAAT
[3291]
B_genome      TTCATAATTAATATGAATTATTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT
[3270]
C_genome      TT-ATAATTAATATGAATTATTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT
[3284]
D_genome      TTCATAATTAATATGAATTATTAATATGAATTATAGACTCGAATTTTGA-----TAGAAT
[3272]
E_genome      TTCATAATTAATATGAATTCCTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT
[3267]
G_genome      TTCATAATTAATATGAATTAGTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT
[3289]
G_genome      TTCATAATTAATATGAATTATTAATATGAATTATATACTCGAATTTAGAAAACTATAAT
[3269]
Gossyp.kirkii TTCATAATTAATATGAATTATTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT

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[3249]
Kokia.drynar   TTCATAATTAATATGAATTATTAATATGAATTATAGACTCGAATTTAGAAAACTAGAAT
[3327]

[
          3370      3380      3390      3400      3410      3420]
[
A_genome      TTTTTCTAATTTTAAATGCCATACTTAATATAAACTTAATATAAATATA-----ACA
[3343]
B_genome      TTTTTCTAATTTTAAATGCCATAC-----TTAATATAAATATATAAATATAACA
[3319]
C_genome      TTTTTTAAATTTTAAACGCCATACTTAATATAA-CTTAATATAAATATATAAATATAACA
[3343]
D_genome      TTTTTCTAATTTTAAATGCCATAC-----TTAATATAAATATATAAATATAACA
[3321]
E_genome      TTTTTCTAAATTTTAAATGCCATAC-----TTAATATAAATATATAAATATAACA
[3316]
G_genome      TTTTTATAATTTTAAATGCCATACTTAATGTAACTTAATATAAATATATAAATATAACA
[3349]
G_genome      TTTTTCTAATTTTAAACGCCATAC-----TTAATATAAATATATAAATATAACA
[3318]
Gossyp.kirkii TATTTTTAAATTTTAAATGCCA-----TAATATAATTATA-----ACA
[3286]
Kokia.drynar  TATTTCTAATTTTGAATGCCATAC-----TTAATATAAATATA-----ACA
[3368]

[
          3430      3440      3450      3460      3470      3480]
[
A_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3398]
B_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3374]
C_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3398]
D_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3376]
E_genome      TATTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3371]
G_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3404]
G_genome      TATTTAATATAATA-----ATGGTAGATTCAATCTAATATTC AAGCTAATGTTAATAGAA
[3373]
Gossyp.kirkii TATTTAATATAATATAATAATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATCGAA
[3346]
Kokia.drynar  TATTTAATATAATATAATAATGGTAGATTCAATCTAATATTC AAGCTAATGTTGATAGAA
[3428]

[
          3490      3500      3510      3520      3530      3540]
[
A_genome      TCTAATA-----CGATTTAAATT-----
[3416]
B_genome      TCTAATAATTAAGAATATAATAATTCTATTTAATTT-----
[3410]
C_genome      TCTAATAATTAAGAATATAATAATTCTATTT-----
[3429]
D_genome      TCTAATAATTAAGAATATAATAATTCGATTTTAATTT-----
[3413]
E_genome      TCTAATAATTAAGAATATAATAATTTGATTTTCATTT-----
[3407]
G_genome      TCTAATAATTA-----TAATAATTCGATTTAAATT-----
[3434]
G_genome      TCTAATAATTAAGAATATAATAATTCTATTTAATTT-----
[3409]
Gossyp.kirkii TCTAATAGTATAG-----AATAATTCATTTAATTTTATTTGATTATATTTAATCATAT

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[3401]
Kokia.drynar TCTAATAATATAG-----AATAATTCTATTTAATTTTATT-----
[3463]

[           3550      3560      3570      3580      3590      3600]
[           .         .         .         .         .         .]
A_genome -----
[3416]
B_genome -----
[3410]
C_genome -----
[3429]
D_genome -----
[3413]
E_genome -----
[3407]
G_genome -----
[3434]
G_genome -----
[3409]
Gossyp.kirkii TAAAAATTAGATTTTAATTTAAACATAATATAATATATTATTAATAATATATAATATTAT
[3461]
Kokia.drynar -----
[3463]

[           3610      3620      3630      3640      3650      3660]
[           .         .         .         .         .         .]
A_genome -----AAAA-----
[3420]
B_genome -----
[3410]
C_genome -----
[3429]
D_genome -----
[3413]
E_genome -----
[3407]
G_genome -----AAAA-----
[3439]
G_genome -----
[3409]
Gossyp.kirkii AATTTTTAATTATAAATATAAAAAATTCATTATCATTATATTATAATAATATTATAAA--T
[3519]
Kokia.drynar -----
[3463]

[           3670      3680      3690      3700      3710      3720]
[           .         .         .         .         .         .]
A_genome -----TTTATATATATATTTATTATTATCTATATATTTATATATTTA--ATATA
[3470]
B_genome -----TTTTTTATATATATATTTATTATTATCTATATAAATTTAT-TATTTATCTATATA
[3464]
C_genome -----TATATATATTTATTATTTATCTA-----TATA
[3456]
D_genome -----TATATATATATATTTATTATTATCTA-----TATA
[3444]
E_genome -----TTTTTTATATATATATTTATTATTCTCTA-----TATA
[3441]
G_genome -----TTTATATATATATTTATTATTATCTA-----TATA
[3470]
G_genome -----ATATATATATTATTTATCTA-----TATA
[3433]
Gossyp.kirkii TTTTTATAATATTATATATATTTATTATTATCTA-----TATA

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[3558]
Kokia.drynar -----
[3463]

[           3730       3740       3750       3760       3770       3780]
[           .           .           .           .           .           .]
A_genome  TTTAATATCTTTTTTATATCTTAGTTATATTTCTTTTATATTA-----
[3514]
B_genome  TTTAATATCTTTTTTATATCTTAGTTATATTTCTTTTATATTA-----
[3508]
C_genome  TTTAATATCTTTTTTATATCTTAGTTAGATTTCTTTTATATTA-----
[3500]
D_genome  TTTAATATCTTTTTTATATCTTAGTTATATTTCTTTTATATTA-----
[3488]
E_genome  TTTAATATCTTTTTTATATCTTAGTTATATTTCTTTTCTATTA-----
[3485]
G_genome  TTTAATATCTTTTTTATATCTTAGTTATATTTCTTTTATATTA-----
[3514]
G_genome  TTTAATATCTTTTTTATATCTTAGTTAGATTTCTTTTATATTA-----
[3477]
Gossyp.kirkii TTAATATCTTTTTTTA-CTCTTAGTCGATTTCTTTTATATTATATGTTATATTGATTT
[3617]
Kokia.drynar -----
[3463]

[           3790       3800       3810       3820       3830       3840]
[           .           .           .           .           .           .]
A_genome  -----ATATAG-----TAATATTACTAATATTACTGACTCCATTT
[3549]
B_genome  -----ATATAG-----TAATATTACTAATATTACTGACTCCATTT
[3543]
C_genome  -----ATATAGTAATATAATATTACTAATATTACTGACTCCATTT
[3540]
D_genome  -----ATATAGTAATATAATATTACTAATATTACTGACTCCATTT
[3528]
E_genome  -----ATATAG-----TAATATTAGTAATATTACTGACTCCATTT
[3520]
G_genome  -----ATATAGTAATAGAATATTACTAATATTACTGACTCCCTTT
[3554]
G_genome  -----ATATAGTAATATAATATTACTAATATTACTGACTCCATTT
[3517]
Gossyp.kirkii TATTAGTATATTCTATATTAATATAGTAATATAATATTATTAATATTACT-ACTCCATTT
[3676]
Kokia.drynar -----
[3463]

[           3850       3860       3870       3880       3890       3900]
[           .           .           .           .           .           .]
A_genome  TTATTTTCTAGTTTATTTTATATTTTAG-----TATATTTACATCTAAATTATATAG
[3602]
B_genome  TGATTTTTCGAGTTTATTTTCTATTTTAGATTTTAGTATATTTTACATCTAAATTATATAG
[3603]
C_genome  TTATTTTTCGAGTTTATTTTATATTTTAGATTTTAGTATATTTTACATCTAAATTATATAG
[3600]
D_genome  TGATTTTCTAGTTTATTTTATATTTTAG-----TATATTTACATCTAAATTATATAG
[3581]
E_genome  TTATTTTCTAGTTTATTTTCTATTTTAG-----TATATTTACATCTAAATTATAGAG
[3573]
G_genome  TTATTTTCTAGTTTATTTTCTATTTTAG-----TATATTTACATCTAAATTATATAG
[3607]
G_genome  TTATTTTTCGAGTTTATTTTATATTTTAGATTTTAGTATATTTTACATCTAAATTATATAG
[3577]
Gossyp.kirkii TTATTTTCTAGTT-ATTTTATATTTTAG-----TATATTTACATCTAAATTATATA-

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[3727]
Kokia.drynar -----
[3463]

[           3910       3920       3930       3940       3950       3960]
[           .         .         .         .         .         .]
A_genome  AAATAGAAAATTTTTATATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATCTAG
[3662]
B_genome  AAA-----ATTTTTTATATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATATAG
[3657]
C_genome  AAA-----TTTTTTTATATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATATAG
[3654]
D_genome  AAA-----ATTTTTTATATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATATAG
[3635]
E_genome  AAA-----ATTTTTTCTATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATATAG
[3627]
G_genome  AAA-----ATTTTTTATATAGATTTTCATTTAATCGATCGATTTAATAGATTTAATATAG
[3661]
G_genome  AAA-----ATTTTTTATATAGATTTTCATTTAATGGATCGATTTAATAGATTTAATATAG
[3631]
Gossyp.kirkii -----TATATATATTTTCATTTAATCCATCGATTTAATAGATTTAATATAG
[3772]
Kokia.drynar -----TTTTATTTAATCGATCGATTTAATAGATTTAATATAG
[3500]

[           3970       3980       3990       4000       4010       4020]
[           .         .         .         .         .         .]
A_genome  ATTAGATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATCCTT
[3722]
B_genome  ATTAAATTTTTTTCTATTTAGTTTLAGAGTTATAAATAGAGATAATTAGAGTCAAATCCTT
[3717]
C_genome  ATTAAATTTTTTT-CTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATCCTT
[3713]
D_genome  ATTAAATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATCCTT
[3695]
E_genome  ATTAAATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATCCTT
[3687]
G_genome  ATTAAATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATCCTT
[3721]
G_genome  ATTAAATTTTTTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTAAAATCCTT
[3691]
Gossyp.kirkii ATTCAATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGAGTCAAATTTTT
[3832]
Kokia.drynar  ATTCAATTTATTTCTATTTAGTTTLAGAGTTCTAAATAGAGATAATTAGGGTCAAATCCTT
[3560]

[           4030       4040       4050       4060       4070       4080]
[           .         .         .         .         .         .]
A_genome  TTTATGCAGTTATATATTTTATGATTATATAAATGA-----AACGTTATAAGTCTAGATA
[3777]
B_genome  TTTATGCATTTATATATTTT-----TATATAAATGA-----TACGTTATAAGTCTAGATA
[3767]
C_genome  TTTATGCATTTATATATTTTATGATTATATAAATGAAATGATACGTTATAAGTCTAGATA
[3773]
D_genome  TTTATGCATTTATATATTTTATGATTCTAGAAATGAAATGATACGTTATAAGTCTAGATA
[3755]
E_genome  TTTATGCATTTATATATTTTATGATTATATAAATGAAATGATACGTTATAAGTCTAGATA
[3747]
G_genome  TTTATGCATTTATATATTTTATGATTATATAAATGAAATGATACGTTATAAGTCTAGATA
[3781]
G_genome  TTTATGCATTTATATATTTTATGATTATATAAATGAAATGATACGTTATAAGTCTAGATA
[3751]
Gossyp.kirkii TTTATGCATTTATATATTTTATCATTATATAAATGAAATGATACGTTATAAGTCTAGATA

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[3892]
Kokia.drynar      TTTATGCATTATATATTTTTATCATTATATAAAATGAAATGATACGTTATAAGTCTAGATA
[3620]

[
          4090      4100      4110      4120      4130      4140]
[
          .          .          .          .          .          .]
A_genome      ATTAGAATGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3837]
B_genome      ATTAGAATGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3827]
C_genome      ATTAGAATGAAACTCTTTTTAGACTAAAAAATTTGAATTATCTTCGAATTCGAAATCGAA
[3833]
D_genome      ATTAGAATGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3815]
E_genome      ATTAGAATGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3807]
G_genome      ATTAGAATGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3841]
G_genome      ATTAGAATGAAACTCTTTTTAGACTAAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3811]
Gossyp.kirkii  ATTAAAATGAAACTCTTTTTAGACTTAAAAATTTGAATTATCTTCGAATTCGAAATAAAA
[3952]
Kokia.drynar  ATTAAAAGAAACTCTTTTTAGACTCAAAAATTTGAATTATCTTCGAATTCGAAATAGAA
[3680]

[
          4150      4160      4170      4180      4190      4200]
[
          .          .          .          .          .          .]
A_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATAGAAATAATTAGTTCAGCTATTATACT
[3897]
B_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATACT
[3887]
C_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATACT
[3893]
D_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATACT
[3875]
E_genome      ATGAATGG-----AATAATTAGTTCAGCTATTATACT
[3840]
G_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATACT
[3901]
G_genome      ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATACT
[3871]
Gossyp.kirkii  ATGAATGGAATAATTAGTTCAGTTATTTAAATATAAAATAATTAGTTCAGCTATTATGCT
[4012]
Kokia.drynar  ATGAATGGAATAATTAGTTCAGTTATTTAAATAGAAATAATTAGTTCAGCTATTATACT
[3740]

[
          4210      4220      4230      4240      4250      4260]
[
          .          .          .          .          .          .]
A_genome      ATAAAAAAAAA-TAATTAATTT-----CATTTTCATTTTTTA-ATAATGAATAAA
[3944]
B_genome      ATAAAAAAAAA-TAATTAATTT-----CATTTTCATTTTTTA-ATAATGAATAAA
[3934]
C_genome      ATAAAAA---TAATTAATTT-----CATTTTAATTTTTTA-ATAATGAATAAA
[3937]
D_genome      ATAAAAAAAAA--TAATTTATTT-----CATTTTAAATTTTTA-ATAATGAATAAA
[3921]
E_genome      ATAAAAAAAAAATAATTAATTT-----CATTTTCATTTTTTA-ATAATGAAAAAA
[3888]
G_genome      ATAAAAAAAAA-TAATTAATTT-----CATTTTCATTTTTTAATTAATGAATAAA
[3949]
G_genome      ATAAAAAAAAA--TAATTAATTT-----CATTTTTATT-----
[3901]
Gossyp.kirkii  ATAAAAA---TAATTAATTT-----AATTTTA---AATATAATAAATAAA

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[4053]
Kokia.drynar ATAAAAAAAA--TAATTAATTAATAAAAAAAAAATAATTAATTTCAATTTTAA--TAATGAATAAA
[3796]

[          4270          4280          4290          4300          4310          4320]
[          .          .          .          .          .          .]
A_genome TTCAATTTTCATTTTTATTTTTTTAGTTAT-----TATGGTTATATAGGATAGT
[3993]
B_genome TTAAATTTTCATTTTTATTTTTTTAGTTATCT-----TATTATGGTTATATAGGATAGT
[3988]
C_genome TTAAATTTTCATTTTTATTTTTTT-AGTTATCTTATTCTTATTATGGTTATATAGAATAGT
[3996]
D_genome TTCAATTTTCATTTTGATTTTTTTTAGTTATCTTATTCTTATTATGGTTATATAGGATGGT
[3981]
E_genome TTCAATTTTCATTTTTATTTTTTTAGGTATCTTATTCTTATTATGGTTATATAGGATAGT
[3948]
G_genome TTCAATTTTCATTTTTATTTTTTTAGTTATCTTATTCTTATTATGGTTATATAGGATAGT
[4009]
G_genome -----TTTTTTTAGTTATCTTATTCTTATTATGGTTATATAGGATAGT
[3944]
Gossyp.kirkii TTCAATTTTATTTTTATGTTTTTAGTTATCTTATTCTTATATAGG----ATAG-----T
[4104]
Kokia.drynar TTAAATTTTCATTTTTATTTTTTTAGTTATCTTATTCTTATTATGGTTATATAGGATAGT
[3856]

[          4330          4340          4350          4360          4370          4380]
[          .          .          .          .          .          .]
A_genome CTAATAA-----TAAGAATAAAAAAGAAATTAAGAAAAAAGATGCAACCCATA
[4043]
B_genome CTAATAAAA----GGATAAGAATAAAAAAGAAATTAAGAAAAAAGATGCAACCCATA
[4043]
C_genome CTAATAAAA----GGATAAGAATAAAAAATAAATTAAGAAAAAAGATGCAACCCATA
[4051]
D_genome CTAATAAAAAGGAAAGGATAAGAATCAAAATGAAATTAAGAAAAAAGATGCAACCCATA
[4041]
E_genome CTAATAAAA----GGATAAGAATAAAAAAGAAATTAAGAAAAAAGATGCAACCCATA
[4003]
G_genome CTAATAAAA----GGATAAGAATAAAAAAGAAATTAAGAAAAAAGATGCAACCCATA
[4064]
G_genome CTAATAAAA----GGATAAGAATAAAAAATAAATTAAGAAAAAAGATGCAACCCATA
[3999]
Gossyp.kirkii CTAATAAAA----GGATAAGAATAAAAAAGAAATTAAGAAAAAAGATTCACCCATA
[4159]
Kokia.drynar CTAATAAAA----GGATAAGAATAAAAAAGAAATTAAGAAAAAAGATGCAACCCATA
[3911]

[          4390          4400          4410          4420          4430          4440]
[          .          .          .          .          .          .]
A_genome GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4103]
B_genome GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4103]
C_genome GAAATGAAATCCATATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4111]
D_genome GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACCG
[4101]
E_genome GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4063]
G_genome GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4124]
G_genome TAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAG
[4059]
Gossyp.kirkii GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTCATAAAGACAA

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[4219]
Kokia.drynar GAAATGAAATCCAGATCATAATGAGAGACTCCTTTCTTTTGTTCATTATAAAGACAA
[3971]

[          4450          4460          4470          4480          4490          4500]
[          .          .          .          .          .          .]
A_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4163]
B_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4163]
C_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4171]
D_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4161]
E_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4123]
G_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4184]
G_genome AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGCCTGAGGAAAC
[4119]
Gossyp.kirkii AAGCTAAGACGAAAAAAGAATCGACCCTTCGAATATTCACCAAATTGTCTGAGGAAAC
[4279]
Kokia.drynar AAGCTAAGACGAAAAAAGAATCGACCCTTCGAGTATTCACCAAATTGTCTGAGGAAAC
[4031]

[          4510          4520          4530          4540          4550          4560]
[          .          .          .          .          .          .]
A_genome TGAGAGTAAGAGGGACATGTATATGTTATGAAATACCCATCTATATTGAATTGCGAATAC
[4223]
B_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4223]
C_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4231]
D_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4221]
E_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4183]
G_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4244]
G_genome TGAGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4179]
Gossyp.kirkii TGGGAGTAAGAGGAACATATATATGTTATGGAATACCCATCTATATTGAATTGTGAATAC
[4339]
Kokia.drynar TGGGAGTAAGAGGGACATATATATGTTATGGAATACCCATCTATATTGAATTGCGAATAC
[4091]

[          4570          4580          4590          4600          4610          4620]
[          .          .          .          .          .          .]
A_genome AGAAAT-GATAAAATATTTT-----TGGACCAAATAAAAAATTAATATGGGTCTCCGATAG
[4277]
B_genome AGAAAT-GATAAAATATTTTCTGATTGGACCAAATAAAAAATGAATATGGGTCTCCGATAG
[4282]
C_genome AGAAAT-GATAAAATATTTTCTGATTGGACCAAATAAAAAATTAATATGGGTCTCCGATAG
[4290]
D_genome AGAAAT-GATAAAATATTTTCCGATTGGACCAAATAAAAAATTAATATGGGTCTCCGATAG
[4280]
E_genome AGAAAT-GATAAAATATTTTCTGATTGGACCAAATAAAAAATTAATAGGGGTCTCCGATAG
[4242]
G_genome AGAAAT-GATAAAATATTTTCTGATTGGACCAAATAAAAAATTAATATGGGTCTCCGATAG
[4303]
G_genome AGAAAT-GATAAAATATTTTCTGATTGGACCAAATAAAAAATTAATATGGGTCTCCGATAG
[4238]
Gossyp.kirkii AGAAAT-AGTAAATATTTTCTGATTGGACCAAATAAAAAATTAATATGGGTCTACGGTAG

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[4398]
Kokia.drynar AGAAAT-GATAAAATATTTT-----TGGACCAAATAAAAAATAAATATGGGTCTCCGATAG
[4145]

[           4630           4640           4650           4660           4670           4680]
[           .           .           .           .           .           .]
A_genome AGACGAAAAACGGATAAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4337]
B_genome AGACGAAAGACG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4341]
C_genome AGACGAAAGACG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4349]
D_genome AGACGAAAGACG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4339]
E_genome AGACGAAAGACG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4301]
G_genome AGACGAAAGACGGATAAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4363]
G_genome AGACGAAAGACG-ATAAACAGACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4297]
Gossyp.kirkii AGACGAAAGATG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4457]
Kokia.drynar AGACGAAAGACG-ATAAACAAACAAGAAAATAGGTAAAGACCCTTCGATATAAGAATCTG
[4204]

[           4690           4700           4710           4720           4730           4740]
[           .           .           .           .           .           .]
A_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4397]
B_genome TATCTATATCTACTAAATTCACGATTTTCGCATAAAAAGAAAGCAAAT-----
[4389]
C_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4409]
D_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4399]
E_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4361]
G_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4423]
G_genome TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4357]
Gossyp.kirkii TATCTATATCTACTAAATTCACGGTTTCGCAAAAAGAAAGCAAATAAATAAACAAAA
[4517]
Kokia.drynar TATCTATATCTACTAAATTCACGGTTTCGCATAAAAAGAAAGCAAATAAATAAACGAAA
[4264]

[           4750           4760           4770           4780           4790           4800]
[           .           .           .           .           .           .]
A_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAA-----GGAGGGAGA
[4435]
B_genome -----AAACAAATGAAAGAA-----GGGGGAAAG--GGGGGAAAGGAGGGAGA
[4430]
C_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAA-----GGAGGGAGA
[4447]
D_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAAGG--GGGGGAAAGGAGGGAGA
[4447]
E_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAAGT--GGGGGAAAGGAGGGAGA
[4409]
G_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAA-----GGAGGGAGA
[4461]
G_genome GAAAATAAACAAATGAAAGAA-----GGGGGAAA-----
[4386]
Gossyp.kirkii GAAAATAAACAAATGAAAGAAAGTGAAGAGGGGGGAAA-----

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[4557]
Kokia.drynar  GAAAATAAACAAATGAAAGAAGGGGGAAAGAGGGGGGAAAAAAGGGGGAA--GAGGGAGA
[4322]

[
          4810      4820      4830      4840      4850      4860]
[
          .          .          .          .          .          .]
A_genome  AAGGGGGAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4495]
B_genome  AAGGGGGAAGGAGGGGCCTCGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4490]
C_genome  AAGGGGGAAGGAGGGACCTCGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4507]
D_genome  AAGGGGAAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4507]
E_genome  AAGGGGGAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4469]
G_genome  AAGGGGGAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4521]
G_genome  --GGGGGAAGGAGGGGCCTCGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4444]
Gossyp.kirkii  AAGGGGGAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4617]
Kokia.drynar  AAGGGGGAAGGAGGGGCCTAGCATCTTTTACACATTTGTATGAAGAAAGGGATTTCGTTCA
[4382]

[
          4870      4880      4890      4900      4910      4920]
[
          .          .          .          .          .          .]
A_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGGGGATGGAAAAAAGA
[4555]
B_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4550]
C_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4567]
D_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4567]
E_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4529]
G_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGGGGATGGAAAAAAGA
[4581]
G_genome  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4504]
Gossyp.kirkii  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4677]
Kokia.drynar  GACCATCGGTAGAGTTTGTAAAGACCACGACTGATCCTGAAAGGAGTGGATGGAAAAAAGA
[4442]

[
          4930      4940      4950      4960      4970      4980]
[
          .          .          .          .          .          .]
A_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4607]
B_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4610]
C_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4627]
D_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4627]
E_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4588]
G_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTTCCGGATCATTC-----
[4641]
G_genome  GCATGTCGTAGCAATGGAGAATTCTAAGAATCCTTTTTTT-CCGGATCATTC-----
[4563]
Gossyp.kirkii  GCATGTCGTATCAATGGAGAATTCTAAGAATCCTTTTTTT-CCGGATCATTC-----

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[4735]
Kokia.drynar GCATGTCGTATCAATGGAGAATTCTAAGAATCCTTTTTT - CCGGATCATTCAAAAAAAAA-
[4500]

[           4990           5000           5010           5020           5030           5040]
[           .           .           .           .           .           .]
A_genome    -CGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4666]
B_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4670]
C_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATTAATTGAATTCAAAGTTGGGTCGAG
[4687]
D_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4687]
E_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAA - TGAATTGAATTCAAAGTTGGGTCGAG
[4647]
G_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4701]
G_genome    CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATTAATTGAATTCAAAGTTGGGTCGAG
[4623]
Gossyp.kirkii CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4795]
Kokia.drynar CCGTTTTTGAATTTTTGGTGCGGAACAAAAAATGAATTGAATTCAAAGTTGGGTCGAG
[4560]

[           5050           5060           5070           5080           5090           5100]
[           .           .           .           .           .           .]
A_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGGAACGAGCTTC
[4726]
B_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGTAACGAGCTTC
[4730]
C_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGTAACGAGCTTC
[4747]
D_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGTAACGAGCTTC
[4747]
E_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGGAACGAGCTTC
[4707]
G_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGGAACGAGCTTC
[4761]
G_genome    TGAATAAATGGATAGAGCTCTACGGCCCCAATTATAGGGAAACAAAAGTAACGAGCTTC
[4683]
Gossyp.kirkii TGAATAAATGGATAGAGCTCTACGGCCCCAATTAGAGGGAAACAAAAGTAACGAGCTTC
[4855]
Kokia.drynar TGAATAAATGGATAGAGCGCTACGGCCCCAATTAGAGGGAAACAAAAGTAACGAGCTTC
[4620]

[           5110           5120           5130           5140           5150           5160]
[           .           .           .           .           .           .]
A_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAA
[4786]
B_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAA
[4790]
C_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAG
[4807]
D_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAAGAAATTAGTGCCTAA
[4807]
E_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAAGAAATTAGTGCCTAA
[4767]
G_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAA
[4821]
G_genome    TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAG
[4743]
Gossyp.kirkii TGTTCCTCAATTTGAATGATTACCTGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAA

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[4915]
Kokia.drynar   TGTTCCTCAATTTGAATGATTACCCGATCTAATTAAACGTTAAAAATAAATTAGTGCCTAA
[4680]

[
          5170      5180      5190      5200      5210      5220]
[
          .         .         .         .         .         .]
A_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAA-----T
[4840]
B_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAA-----T
[4844]
C_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAATTATTAT
[4867]
D_genome      TGGGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCC-----TTAT
[4861]
E_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAA-----T
[4821]
G_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAATTATTAT
[4881]
G_genome      TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAA---TTAT
[4800]
Gossyp.kirkii TGTGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAATTATTAT
[4975]
Kokia.drynar   TGGGGTAAAGGTTTTTCTCATGAGTAAATTATCGATTTTTTTATGAGTCCTAATTATTAT
[4740]

[
          5230      5240      5250      5260      5270      5280]
[
          .         .         .         .         .         .]
A_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4900]
B_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4904]
C_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4927]
D_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4921]
E_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4881]
G_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4941]
G_genome      TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4860]
Gossyp.kirkii TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[5035]
Kokia.drynar   TATTAGGCATTCCTTTTATGGGTTAGCCATGAATGTGTAGAAGAAGCAGTATATTGATAA
[4800]

[
          5290      5300      5310      5320      5330      5340]
[
          .         .         .         .         .         .]
A_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4959]
B_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4963]
C_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4986]
D_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4980]
E_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4940]
G_genome      AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[5000]
G_genome      AGAAAAGATATTTTTTTTCCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4920]
Gossyp.kirkii AGAAAAGATATTTTTTTT-CCAAAATCAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT

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[5094]
Kokia.drynar   AGAAAAGATATTTTTTTT-CCAAAATCAAAAAGAGCGATTGGGTTGAAAAAATAAAGGATTT
[4859]

[           5350           5360           5370           5380           5390           5400]
[           .           .           .           .           .           .]
A_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTAGATGGCAAAAAGA-----TAG
[5014]
B_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTAGATGGCAAAAAGA-----TAG
[5018]
C_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTAGATGGCAAAAAGA-----TAG
[5041]
D_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATAAATTAGATGGCAAAAAGAAAAGATAG
[5040]
E_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTCGATGGCAAAAAGA-----TAG
[4995]
G_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTAGATGGCAAAAAGA-----TAG
[5055]
G_genome      CTAACCGTCTTCTTATCCTATAACGAACATAAATCAATTAGATGGCAAAAAGA-----TAG
[4975]
Gossyp.kirkii CTAACCGTCTTCTTATCCTATAACGAATATAAATCAATTAGATGGCAAAAAGA-----TAG
[5149]
Kokia.drynar   CTAACCATCTTCTTATCCTATAACGAATATAAATCAATTAGATGGCAAAAAGA-----TAG
[4914]

[           5410           5420           5430           5440           5450           5460]
[           .           .           .           .           .           .]
A_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5074]
B_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGG?ATCTATTCTTTTCTTACTATA
[5078]
C_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5101]
D_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5100]
E_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5055]
G_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5115]
G_genome      GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5035]
Gossyp.kirkii GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[5209]
Kokia.drynar   GATAGAGAATCCGTTGATGAATCCGCCTGTCTCCGAGGTATCTATTCTTTTCTTACTATA
[4974]

[           5470           5480           5490           5500           5510           5520]
[           .           .           .           .           .           .]
A_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5134]
B_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5138]
C_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCTAATAGATCCCCTATC
[5161]
D_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5160]
E_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5115]
G_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5175]
G_genome      ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCTAATAGATCCCCTATC
[5095]
Gossyp.kirkii ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC

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[5269]
Kokia.drynar ATACCTTGTTTTGACTGTATCGCACTATGTATCATTTAATAACCGAATAGATCCCCTATC
[5034]

[           5530           5540           5550           5560           5570           5580]
[           .           .           .           .           .           .]
A_genome    TTTGGTTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5194]
B_genome    TTTGGGTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5198]
C_genome    TTTGGGTCAAATCGAATTTGAAATGGAGGAATTTCAAGTCTATTTAGAACTAAATAGATC
[5221]
D_genome    TTTGGTTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5220]
E_genome    TTTGGTTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5175]
G_genome    TTTGGTTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5235]
G_genome    TTTGGGTCAAATCGAATTTGAAATGGAGGAATTTCAAGTCTATTTAGAACTAAATAGATC
[5155]
Gossyp.kirkii TTTGGTTCAAATCGAATTTGAAATGGAGGAATTTCAAGTATATTTAGAACTAAATAGATC
[5329]
Kokia.drynar TTTGGTTCCAATCGAATTTGAAATGGAGCAATTTCAAGTATATTTAGAACTAAATAGATC
[5094]

[           5590           5600           5610           5620           5630           5640]
[           .           .           .           .           .           .]
A_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5254]
B_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5258]
C_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5281]
D_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5280]
E_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5235]
G_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5295]
G_genome    CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGCACTTGCTCA
[5215]
Gossyp.kirkii CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTATATTTATGGACTTGCTCA
[5389]
Kokia.drynar CCGCCGACACGATTTCCATATACCCACTTATTTTTCGGGAGTCTATTTATGCACTTGCTCA
[5154]

[           5650           5660           5670           5680           5690           5700]
[           .           .           .           .           .           .]
A_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5314]
B_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5318]
C_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5341]
D_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5340]
E_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5295]
G_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5355]
G_genome    TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT
[5275]
Gossyp.kirkii TGAGCATGGTTTAAATAAATCGATGATTTTTTTTGAAAATCAGGGTTATGGTAATAAATT

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[5449]
Kokia.drynar    TGGGCATGGTTTAAATAAATCGATGATTTTTTTTGGAAAATCAGGGTTATGGTAATAAATT
[5214]

[
          5710      5720      5730      5740      5750      5760]
[
          .          .          .          .          .          .]
A_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5374]
B_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGAGCAACAGAATCGTTTGATTAG
[5378]
C_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5401]
D_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5400]
E_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5355]
G_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5415]
G_genome    CAGTTCACTAATTGTGAAACGTTTAATTCCTC?AATGGATCAACAGAATCGTTTGATTAG
[5335]
Gossyp.kirkii CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAATCGTTTGATTAG
[5509]
Kokia.drynar    CAGTTCACTAATTGTGAAACGTTTAATTCCTCGAATGGATCAACAGAAACGTTTGATTAG
[5274]

[
          5770      5780      5790      5800      5810      5820]
[
          .          .          .          .          .          .]
A_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5434]
B_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5438]
C_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5461]
D_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGACACAACAATAATTTGTATTCTCA
[5460]
E_genome    TTCTACTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5415]
G_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5475]
G_genome    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5395]
Gossyp.kirkii TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5569]
Kokia.drynar    TTCTGCTAATGATTCCAACCAAATCCGGTTTTTGGGCACAACAATAATTTGTATTCTCA
[5334]

[
          5830      5840      5850      5860      5870      5880]
[
          .          .          .          .          .          .]
A_genome    AATGATAGCGGTAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5494]
B_genome    AATGATAGCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5498]
C_genome    AATGATATCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTACTTACGATTAATATC
[5521]
D_genome    AATGATAGCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5520]
E_genome    AATGATAGCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5475]
G_genome    AATGATAGCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5535]
G_genome    AATGATAGCGGCAGGATTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC
[5455]
Gossyp.kirkii AATGATAGCGGCAGGTTTGCAGTCATTGTGGAAATTCATTTTCCTTACGATTAATATC

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[5629]  
 Kokia.drynar AATGGTAGCGGCAGGATTTGCAGTCATTGTGGAAATCCATTTTCCTTACGATTAATATC  
 [5394]

[ 5890 5900 5910 5920 5930 5940 ]  
 [ . . . . . ]  
 A\_genome TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5554]  
 B\_genome TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5558]  
 C\_genome TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5581]  
 D\_genome TTACTCACAAGGGGCAGAAGCCGAAAATCTCATAATTTTCAATCAATTCATTCAATATT  
 [5580]  
 E\_genome TTACTCACAAGGAACAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5535]  
 G\_genome TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5595]  
 G\_genome TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5515]  
 Gossyp.kirkii TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5689]  
 Kokia.drynar TTACTCACAAGGGGCAGAAGTCGAAAATCTCATAATTTACAATCAATTCATTCAATATT  
 [5454]

[ 5950 5960 5970 5980 5990 6000 ]  
 [ . . . . . ]  
 A\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5614]  
 B\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5618]  
 C\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5641]  
 D\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5640]  
 E\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5595]  
 G\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5655]  
 G\_genome TCCTTTTTTAGAGGACAAATCTCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5575]  
 Gossyp.kirkii TCCTTTTTTAGAGGACAAATATCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5749]  
 Kokia.drynar TCCCTTTTTTAGAGGACAAATATCACATTTAAATTATGTGTTAGAGGCACTAATACCTCA  
 [5514]

[ 6010 6020 6030 6040 6050 6060 ]  
 [ . . . . . ]  
 A\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5674]  
 B\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5678]  
 C\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5701]  
 D\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5700]  
 E\_genome TCCTATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5655]  
 G\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5715]  
 G\_genome TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC  
 [5635]  
 Gossyp.kirkii TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC

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[5809]
Kokia.drynar   TCCCATCCATCTAGAAATCTTAGTTCAAGCCCTTCGCTACTGGGTAAAAGATGCTTCTTC
[5574]

[           6070           6080           6090           6100           6110           6120]
[           .           .           .           .           .           .]
A_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5734]
B_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5738]
C_genome      TTTACATTTATTACGG?TCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5761]
D_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5760]
E_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5715]
G_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5775]
G_genome      TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5695]
Gossyp.kirkii TTTGCATTTATTACGG?TCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5869]
Kokia.drynar   TTTGCATTTATTACGGTTCTCTCTCTACGAGTATTGTAATTTGAAGAGTTTATTACTCC
[5634]

[           6130           6140           6150           6160           6170           6180]
[           .           .           .           .           .           .]
A_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5794]
B_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5798]
C_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5821]
D_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTGTATAATTCTCATAAC
[5820]
E_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5775]
G_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5835]
G_genome      AAAGAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATAAC
[5755]
Gossyp.kirkii AAAAAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATGC
[5929]
Kokia.drynar   AAAAAAATCTATTTTCGATTTTAAATCCAAGATTATTCTTGTTCCTATATAATTCTCATGC
[5694]

[           6190           6200           6210           6220           6230           6240]
[           .           .           .           .           .           .]
A_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5854]
B_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5858]
C_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5881]
D_genome      ATGTGAATACGAATCTATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5880]
E_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5835]
G_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5895]
G_genome      ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC
[5815]
Gossyp.kirkii ATGTGAATACGAATCCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTTACGATCAAC

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[5989]
Kokia.drynar ATGTGAATACGAATTCATTTTCCTTTTTCTCCGTAATCAATCTTCTCATTACGATCAAC
[5754]

[           6250           6260           6270           6280           6290           6300]
[           .           .           .           .           .           .]
A_genome ATCTTCTGGGGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5914]
B_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5918]
C_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5941]
D_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5940]
E_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5895]
G_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5955]
G_genome ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5875]
Gossyp.kirkii ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[6049]
Kokia.drynar ATCTTCTGGAGTCTTTCTTGAACGAATTTTTTTCTATGGAAAAATAAAGTATCTTGGCGA
[5814]

[           6310           6320           6330           6340           6350           6360]
[           .           .           .           .           .           .]
A_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[5974]
B_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[5978]
C_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[6001]
D_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[6000]
E_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[5955]
G_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[6015]
G_genome AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[5935]
Gossyp.kirkii AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[6109]
Kokia.drynar AGTCTTTTATAATGATTTTCAGAACAACCTATGGTTGTTCAAAGACCCTTTCATACATTT
[5874]

[           6370           6380           6390           6400           6410           6420]
[           .           .           .           .           .           .]
A_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[6034]
B_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCACTAA
[6038]
C_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[6061]
D_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[6060]
E_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[6015]
G_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[6075]
G_genome TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA
[5995]
Gossyp.kirkii TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA

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[6169]  
 Kokia.drynar TATTAGGTATCAAGGAAAGTCAATTCTGGCCTCAAAGGATACGTCTCTTCTGATCAATAA  
 [5934]

[ 6430 6440 6450 6460 6470 6480 ]  
 [ . . . . . ]  
 A\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6094]  
 B\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6098]  
 C\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6121]  
 D\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6120]  
 E\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6075]  
 G\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6135]  
 G\_genome GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6055]  
 Gossyp.kirkii GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [6229]  
 Kokia.drynar GTGGAAATATTACTTTGTCGATTTATGGCAATATTATTTTTACCTGTGGTCTCAATCAGG  
 [5994]

[ 6490 6500 6510 6520 6530 6540 ]  
 [ . . . . . ]  
 A\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6154]  
 B\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6158]  
 C\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6181]  
 D\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6180]  
 E\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6135]  
 G\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6195]  
 G\_genome AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6115]  
 Gossyp.kirkii AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6289]  
 Kokia.drynar AAGAGTCCGTATAAATCAATTATCTAAATATCTCTCGACTTTCTGGGCTATCTTTCAAG  
 [6054]

[ 6550 6560 6570 6580 6590 6600 ]  
 [ . . . . . ]  
 A\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA  
 [6214]  
 B\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA  
 [6218]  
 C\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTTATTTATAATAGA  
 [6241]  
 D\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA  
 [6240]  
 E\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA  
 [6195]  
 G\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA  
 [6255]  
 G\_genome TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTTATTTATAATAGA  
 [6175]  
 Gossyp.kirkii TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA

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[6349]
Kokia.drynar TGTGCGATTAAATCCTTCAGTGGTACGGAGTCAAATGCTAGAAAATTCATTTCTAATAGA
[6114]

[           6610           6620           6630           6640           6650           6660]
[           .           .           .           .           .           .]
A_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6274]
B_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6278]
C_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6301]
D_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGATCATTGGATCATTGTC
[6300]
E_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6255]
G_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6315]
G_genome TAATGCTGTGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6235]
Gossyp.kirkii TAATGCTATGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6409]
Kokia.drynar TAATGCTATGAAGACGTTGGATACAAGAATCCAATTATTTTCGCTCATTGGATCATTGTC
[6174]

[           6670           6680           6690           6700           6710           6720]
[           .           .           .           .           .           .]
A_genome TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTC
[6334]
B_genome TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTC
[6338]
C_genome TAAGGCGAAATTTTGTAAACACGTTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTC
[6361]
D_genome TAAGGCGAAATTTTGTAAACACATTAGGGCACCCCATTAGTAAGCCGACGTGGGCCGATTC
[6360]
E_genome TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATCC
[6315]
G_genome TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTT
[6375]
G_genome TAAGGCAAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGACCGATTC
[6295]
Gossyp.kirkii TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTC
[6469]
Kokia.drynar TAAGGCGAAATTTTGTAAACACATTAGGGCATCCCATTAGTAAGCCGACGTGGGCCGATTC
[6234]

[           6730           6740           6750           6760           6770           6780]
[           .           .           .           .           .           .]
A_genome CCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6394]
B_genome CCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6398]
C_genome TCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6421]
D_genome CCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6420]
E_genome CCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6375]
G_genome CCCCATTCTGATATTATTGACCGATTTGTGCGGATATCCAGAAATCTTCTCATTATCA
[6435]
G_genome CCCCATTCTGATATTATTGACCGATTTGTGCGTATATCCAGAAATCTTCTCATTATCA
[6355]
Gossyp.kirkii CCCCATTCTGATATTATTGACCGATTTGTGCGTATATGCGAGAAATCTTCTCATTATCA

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[6529]
Kokia.drynar CCCCATTCTGATATTATTGACCGATTTGTGCGTATATGCAGAAATCTTCTCATTATCA
[6294]

[          6790          6800          6810          6820          6830          6840]
[          .          .          .          .          .          .]
A_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6454]
B_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6458]
C_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6481]
D_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6480]
E_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6435]
G_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6495]
G_genome CAGTGGATCTTCAAAAAAAAAAAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6415]
Gossyp.kirkii CAGTGGATCTTCAAAAAAAAAAGAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6589]
Kokia.drynar CAGTGGATCTTCAAAAAAAAAAGAGTTTGTATCGAATAAAATATATACTTCGGTTTTCTTG
[6354]

[          6850          6860          6870          6880          6890          6900]
[          .          .          .          .          .          .]
A_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6514]
B_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6518]
C_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6541]
D_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6540]
E_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6495]
G_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6555]
G_genome TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTCCGTGCTTTTTTGAAAAAATTAGG
[6475]
Gossyp.kirkii TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTACGTGCTTTTTTGAAAAAATTAGG
[6649]
Kokia.drynar TGTTAAACCTTTGGCTCGTAAACACAAAAGTACTGTACGTGCTTTTTTGAAAAAATTAGG
[6414]

[          6910          6920          6930          6940          6950          6960]
[          .          .          .          .          .          .]
A_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6574]
B_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6578]
C_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6601]
D_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6600]
E_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6555]
G_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6615]
G_genome TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT
[6535]
Gossyp.kirkii TTCGGAATTTTGAAGAATCTTTACGGAAACGGAAGAAGAACATGTTTTTCTTTGAT

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[6709]
Kokia.drynar   TTCGGAATTTTGGGAAGAATCTTTACGGAACGGAAGAAGAACATGCTTTTCTTTGAT
[6474]

[           6970           6980           6990           7000           7010           7020]
[           .           .           .           .           .           .]
A_genome      CTTCCCAAGAGGTTTTTTTGGCTATGCGAAAGGTCTATAGGGGACGAATTTGGTATTTGGA
[6634]
B_genome      CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTCTATAGGGGACGAATTTGGTATTTGGA
[6638]
C_genome      CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTCTATAGGGGACGAATTTGGTATTTGGA
[6661]
D_genome      CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGGTCTATAGAGGACGAATTTGGTATTTGGA
[6660]
E_genome      CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTCTATAGGGGACGAATTTGGTATTTGGA
[6615]
G_genome      CTTCCCAAGAGGTTTTTTTGGCTATGCGAAAGGTCTATAGGGGACGAATTTGGTATTTGGA
[6675]
G_genome      CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTCTATAGGGGACGAATTTGGTATTTGGA
[6595]
Gossyp.kirkii CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTGATAGGGGACGAATTTGGTATTTGGA
[6769]
Kokia.drynar   CTTCCCAAGAGGTTTTTTTGGCTTTGCGAAAGTTGATAGGGGACGAATTTGGTATTTGGA
[6534]

[           7030           7040           7050           7060           7070           7080]
[           .           .           .           .           .           .]
A_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6693]
B_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6697]
C_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6720]
D_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6719]
E_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6674]
G_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6734]
G_genome      TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6654]
Gossyp.kirkii TATTATTTGTATCAATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6829]
Kokia.drynar   TATTATTTGTATCGATGCTCTGGTCAATCATTCATGATTGGTTATGAAATTA-TGTAAT
[6594]

[           7090           7100           7110           7120           7130           7140]
[           .           .           .           .           .           .]
A_genome      TCAATTATCAATTACAATAAAAATGGTAATTTTACGAAATGATGAAGAGATAACAAACGA
[6753]
B_genome      -----TCAATTACAATAAAAATGGGAATTTTCCGAAATGATGAAGAGATAACAAACGA
[6750]
C_genome      -----TCAATTACAATAAAAATGGGAATTTTCCGAAATGATGAAGAGATAACAAACGA
[6773]
D_genome      -----
[6719]
E_genome      -----TCAATTACAATAAAAATGGGAATTTTCCGAAATGATGAAGAG?TAACAAACGA
[6727]
G_genome      TCAATTATCAATTACAATAAAAATGGTAATTTTACGAAATGATGAAGAGATAACAAACGA
[6794]
G_genome      -----TCAATTACAATAAAAATGGGAATTTTCCGAAATGATGAAGAGATAACAAACGA
[6707]
Gossyp.kirkii -----TCAATTACAATAAAAATGGGAATTTTCCGAAATGATGAAGAGATAACAAACGA

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[6882]
Kokia.drynar -----TCAATTACAATAAAAAATGGGAATTTTCCGAAATGATGAAGAGATAACAAACGA
[6647]

[           7150           7160           7170           7180           7190           7200]
[           .           .           .           .           .           .]
A_genome ATTTATTCATTTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6813]
B_genome ATTTATTCATTTCTCGTATTAAATGTTTCAGGCAGTAAGAATAAGAGAGGATTGGCCGAGT
[6810]
C_genome ATTTATTCATTTCTCGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6833]
D_genome ----TTCAATTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6774]
E_genome ATTTATTCATTTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGTGGATTGGCCGAGT
[6787]
G_genome ATTTATTCATTTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6854]
G_genome ATTTATTCATTTCTCGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6767]
Gossyp.kirkii ATTTATTCATTTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6942]
Kokia.drynar ATTTTTTCATTTCTAGTATTAAATGTTTCAGGCAGTAAGAATAAGAGGGGATTGGCCGAGT
[6707]

[           7210           7220           7230           7240           7250           7260]
[           .           .           .           .           .           .]
A_genome ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6872]
B_genome ATTCCGC--TTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6868]
C_genome ATTCCGCTTTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6893]
D_genome ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6833]
E_genome ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6846]
G_genome ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6913]
G_genome ATTCCGCTTTTTTTTTTAGAGTCTGTTTAGTGAATAAACAGGGTTTTAGATGGATACAT
[6827]
Gossyp.kirkii ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[7001]
Kokia.drynar ATTCCGC-TTTTTTTTTAGAGTCTGTTTAGGGAATAAACAGGGTTTTAGATGGATACAT
[6766]

[           7270           7280           7290           7300           7310           7320]
[           .           .           .           .           .           .]
A_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTT--TTTT
[6930]
B_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT
[6928]
C_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT
[6953]
D_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT
[6893]
E_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT
[6906]
G_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGA-TTTT--TTATT
[6970]
G_genome AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT
[6887]
Gossyp.kirkii AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT

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[7061]  
 Kokia.drynar AGAGAAAGCCGTGTGCAATGAAAAATGCAAGCACGGTTTGGGGAGGGATTTTTATTCTT  
 [6826]

```
[
          7330      7340      7350      7360      7370]
[
          .          .          .          .          .]
A_genome  ---CTTTT-----AAATTTCAATTTA---TTTAA-TTAAACAAGGA [6964]
B_genome  TAACTTTT-----TAAA-TTTA-TTT----TTT?????????????? [6964]
C_genome  TAACTTTA-----AAATTTTAATTTA---TTTAAATTAACAAGGA [6991]
D_genome  TAACTTTAAAATT-AGTAAATTAGAATTTA---TTTAATTTAAACAAGGA [6939]
E_genome  TTTAATTTG???????????????????????????????????????? [6956]
G_genome  ---CTTTT-----AAATTTCAATTTA---TTT-AATT-AACAAGGA [7003]
G_genome  TAAC-----TTTAAATTTA---TTTAAATTAACAAGGA [6918]
Gossyp.kirkii TAACTTTTTTATTAAATTTATTT-AATTTAACTTTA-TTT?????????? [7109]
Kokia.drynar TAACTTTTTTATTAAATTTATTT-AATTTAACTTTAATTTAAACAAGGA [6875];
END;
```

```
[begin character partitions for Partition-Homogeneity tests]
CHARPARTITION NDHFvsRPL16 = gene1:1-2064, gene2:2065-3221;
CHARPARTITION TRNTLvsMATK = gene3:3222-4817, gene4:4818-7370;
CHARPARTITION NDHFvsTRNTL = gene1:1-2064, gene3:3222-4817;
CHARPARTITION RPL16vsTRNTL = gene2:2065-3221, gene3:3222-4817;
CHARPARTITION NDHFvsMATK = gene1:1-2064, gene4:4818-7370;
CHARPARTITION RPL16vsTRNTL = gene2:2065-3221, gene4:4818-7370;
```

```
BEGIN CODONS;
  CODONPOSSET * CodonPositions =
    N: 2065-5541 7051-7370,
    1: 1-2062\3 5542-7048\3,
    2: 2-2063\3 5543-7049\3,
    3: 3-2064\3 5544-7050\3;
  CODESET * UNTITLED = Universal: all ;
END;
```

```
BEGIN SETS;
  CHARSET NDHF = 1-2064;
  CHARSET RPL16 = 2065-3221;
  CHARSET TRNTL = 3222-4817;
  CHARSET MATK = 4818-7370;
  CHARSET rpl16badaln = 2537-2585;
  CHARSET trnTLbadaln = 3519-3672;
  CHARSET matKbadaln = 7328-7370;
END;
```

```
BEGIN ASSUMPTIONS;
  OPTIONS DEFTYPE=unord PolyTcount=MINSTEPS ;
END;
```