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Incongruence of morphological determinations and DNA barcode sequences: a case study in *Cinnamomum* (*Lauraceae*)

Electronic supplement to: Rohwer J. G., Trofimov D., Mayland-Quellhorst E. & Albach D. 2019: Incongruence of morphological determinations and DNA barcode sequences: a case study in *Cinnamomum* (*Lauraceae*). – Willdenowia 49: 383–400. doi: https://doi.org/10.3372/wi.49.49309

Nexus file of *psbA-trnH* data used for haplotype analysis

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end;

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Cinm_camphora_MH050970_Cinnamomu  1, 0, 0
Cinm_camphora_MF421523_Cinnamomu  1, 0, 0
Cinm_camphora_LC228240_psbA       1, 0, 0
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end;
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Nexus file of *matK* data used for haplotype analysis

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      KP093277_Cinm_parthenoxylon_SCBG
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      KX546068_Cinm_parthenoxylon_CXQ0
      JQ435498_Cinm_parthenoxylon
      KJ510895_Cinm_parthenoxylon
      GQ434288_Cinm_parthenoxylon_PS16
      KX545924_Cinm_parthenoxylon_CXQ0
      Cinm_camphora_LC228240
      Cinm_camphora_MH050970
      Cinm_camphora_MF421523
      AJ966800_Cinm_camphora_Q102
      HQ415392_Cinm_camphora
      KP093546_Cinm_camphora_SCBGP173_
      JQ435499_Cinm_camphora
      Cinm_camphora_MG021326
      Cinm_camphora_MF156716
      Cinm_camphora_NC035882
      AJ247154_Cinm_camphora_R164
      EU153829_Cinm_camphora_K6469
      GU135093_Cinm_camphora_D0298
      HM019316_Cinm_camphora_PS5019MT0
      HM019317_Cinm_camphora_PS5020MT0
      KF740401_Cinm_camphora
      KX545833_Cinm_camphora_LJ2006004
      KP093545_Cinm_camphora_SCBGP173_
      KX546013_Cinm_camphora_CXQ0224
      KX546024_Cinm_camphora_CXQ0384
      KX546030_Cinm_camphora_CXQ0405
      KJ510888_Cinm_camphora
      MF589651_Cinm_camphora_efgh2
      HQ427401_Cinm_camphora
      JN114745_Cinm_camphora_SBB1126
      MF589649_Cinm_camphora_ijkl3
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      Cinm_camphora_cf_G061425
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end;

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[!Domain=Data;]
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KP093277_Cinm_parthenoxylon_SCBG         ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
KX545925_Cinm_parthenoxylon_CXQ0         ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
KX546068_Cinm_parthenoxylon_CXQ0         ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
JQ435498_Cinm_parthenoxylon              ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
KJ510895_Cinm_parthenoxylon              ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
GQ434288_Cinm_parthenoxylon_PS16         ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
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Cinm_camphora_LC228240                   ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
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AJ966800_Cinm_camphora_Q102              ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
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Cinm_camphora_MG021326                   ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
Cinm_camphora_MF156716                   ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
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AJ247154_Cinm_camphora_R164              ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
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HQ427401_Cinm_camphora                   ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
JN114745_Cinm_camphora_SBB1126           ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
MF589649_Cinm_camphora_ijkl3             ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
JX495692_Cinm_camphora_H00168            ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT
Cinm_camphora_cf_G061425                 ATTCTCTCTCTACGAGTATTGGAATTCAAATAGTCTCATT

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KX545925_Cinm_parthenoxylon_CXQ0         ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
KX546068_Cinm_parthenoxylon_CXQ0         ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
JQ435498_Cinm_parthenoxylon              ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
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GQ434288_Cinm_parthenoxylon_PS16         ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
KX545924_Cinm_parthenoxylon_CXQ0         ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
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Cinm_camphora_MH050970                   ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
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AJ966800_Cinm_camphora_Q102              ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
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Cinm_camphora_NC035882                   ACTCCAAAAAATTCCATTTCCCTTTTTTCAAAAGAGAATC
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KX546068_Cinm_parthenoxylon_CXQ0  CATTTACGATCCAAATCTTTTGGATCCTTTCTTGAGCGAA
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GU135093_Cinm_camphora_D0298      CATTTACGATCAAAATCTTTTGGATCCTTTCTTGAGCGAA
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KX546024_Cinm_camphora_CXQ0384     CATTTACGATCAAAATCTTTTGGATCCTTTCTTGAGCGAA
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HQ427401_Cinm_camphora             CATTTACGATCAAAATCTTTTGGATCCTTTCTTGAGCGAA
JN114745_Cinm_camphora_SBB1126     CATTTACGATCAAAATCTTTTGGATCCTTTCTTGAGCGAA
MF589649_Cinm_camphora_ijkl3       CATTTACGATCAAAATCTTTTGGATCCTTTCTTGAGCGAA
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Cinm_camphora_MF421523            TTGTAACGATTTTCAGAAAACCCTATGGTTGTTCAAAGAC
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JN114745_Cinm_camphora_SBB1126    TGGTCTCAACCGGCCAGGATCCATATAAAGCAATTATATA
MF589649_Cinm_camphora_ijkl3      TGGTCTCAACCGGCCAGGATCCATATAAAGCAATTATATA
JX495692_Cinm_camphora_H00168     TGGTCTCAACCGGCCAGGATCCATATAAAGCAATTATATA
Cinm_camphora_cf_G061425          TGGTCTCAACCGGCCAGGATCCATATAAAGCAATTATATA

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KP093276_Cinm_parthenoxylon_SCBG  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KP093277_Cinm_parthenoxylon_SCBG  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX545925_Cinm_parthenoxylon_CXQ0  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX546068_Cinm_parthenoxylon_CXQ0  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
JQ435498_Cinm_parthenoxylon       ATCTCCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KJ510895_Cinm_parthenoxylon       ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
GQ434288_Cinm_parthenoxylon_PS16  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX545924_Cinm_parthenoxylon_CXQ0  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
Cinm_camphora_LC228240            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
Cinm_camphora_MH050970            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
Cinm_camphora_MF421523            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
AJ966800_Cinm_camphora_Q102       ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
HQ415392_Cinm_camphora            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KP093546_Cinm_camphora_SCBGP173_  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
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Cinm_camphora_MF156716            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
Cinm_camphora_NC035882            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
AJ247154_Cinm_camphora_R164       ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
EU153829_Cinm_camphora_K6469      ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
GU135093_Cinm_camphora_D0298      ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
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KF740401_Cinm_camphora            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX545833_Cinm_camphora_LJ2006004  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KP093545_Cinm_camphora_SCBGP173_  ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX546013_Cinm_camphora_CXQ0224    ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX546024_Cinm_camphora_CXQ0384    ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KX546030_Cinm_camphora_CXQ0405    ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
KJ510888_Cinm_camphora            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
MF589651_Cinm_camphora_efgh2      ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
HQ427401_Cinm_camphora            ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
JN114745_Cinm_camphora_SBB1126    ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
MF589649_Cinm_camphora_ijkl3      ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
JX495692_Cinm_camphora_H00168     ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG
Cinm_camphora_cf_G061425          ATCATCCCTTCTATTTTCTGGGCTATCTTTCAAGTGTACG

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KP093276_Cinm_parthenoxylon_SCBG  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KP093277_Cinm_parthenoxylon_SCBG  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KX545925_Cinm_parthenoxylon_CXQ0  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KX546068_Cinm_parthenoxylon_CXQ0  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
JQ435498_Cinm_parthenoxylon       ACTAAACTCTTCGGTGATCAGGAGTCAAATGCTAGAGAAT
KJ510895_Cinm_parthenoxylon       ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
GQ434288_Cinm_parthenoxylon_PS16  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KX545924_Cinm_parthenoxylon_CXQ0  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
Cinm_camphora_LC228240            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
Cinm_camphora_MH050970            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
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AJ966800_Cinm_camphora_Q102       ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
HQ415392_Cinm_camphora            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KP093546_Cinm_camphora_SCBGP173_  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
JQ435499_Cinm_camphora            ACTAAACTCTTCGGTGATA?GGAGTCCAATGCTAGAGAAT
Cinm_camphora_MG021326            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
Cinm_camphora_MF156716            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
Cinm_camphora_NC035882            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
AJ247154_Cinm_camphora_R164       ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
EU153829_Cinm_camphora_K6469      ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
GU135093_Cinm_camphora_D0298      ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
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HM019317_Cinm_camphora_PS5020MT0  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
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KX545833_Cinm_camphora_LJ2006004  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KP093545_Cinm_camphora_SCBGP173_  ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
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KX546024_Cinm_camphora_CXQ0384    ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KX546030_Cinm_camphora_CXQ0405    ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
KJ510888_Cinm_camphora            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
MF589651_Cinm_camphora_efgh2      ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
HQ427401_Cinm_camphora            ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
JN114745_Cinm_camphora_SBB1126    ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
MF589649_Cinm_camphora_ijkl3      ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
JX495692_Cinm_camphora_H00168     ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT
Cinm_camphora_cf_G061425          ACTAAACTCTTCGGTGATAAGGAGTCAAATGCTAGAGAAT

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KP093277_Cinm_parthenoxylon_SCBG  TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
KX545925_Cinm_parthenoxylon_CXQ0  TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
KX546068_Cinm_parthenoxylon_CXQ0  TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
JQ435498_Cinm_parthenoxylon       TCGTTTCGACTAGATACTGCTATTAAGAAATTCGAGACCG
KJ510895_Cinm_parthenoxylon       TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
GQ434288_Cinm_parthenoxylon_PS16  TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
KX545924_Cinm_parthenoxylon_CXQ0  TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_LC228240            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_MH050970            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_MF421523            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
AJ966800_Cinm_camphora_Q102       TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
HQ415392_Cinm_camphora            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
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JQ435499_Cinm_camphora            TCGTTTCGAATAGATACTGCTATTTATAAATTCGAGACCG
Cinm_camphora_MG021326            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_MF156716            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_NC035882            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
AJ247154_Cinm_camphora_R164       TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
EU153829_Cinm_camphora_K6469      TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
GU135093_Cinm_camphora_D0298      TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
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KJ510888_Cinm_camphora            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
MF589651_Cinm_camphora_efgh2      TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
HQ427401_Cinm_camphora            TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
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MF589649_Cinm_camphora_ijkl3      TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
JX495692_Cinm_camphora_H00168     TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG
Cinm_camphora_cf_G061425          TCGTTTCGAATAGATACTGCTATTAAGAAATTCGAGACCG

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KP093276_Cinm_parthenoxylon_SCBG  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
KP093277_Cinm_parthenoxylon_SCBG  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
KX545925_Cinm_parthenoxylon_CXQ0  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
KX546068_Cinm_parthenoxylon_CXQ0  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
JQ435498_Cinm_parthenoxylon       TTGTCCCCATTATTCCTCTGATTGGATCATTGGCTTCAGC
KJ510895_Cinm_parthenoxylon       TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
GQ434288_Cinm_parthenoxylon_PS16  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
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Cinm_camphora_MH050970            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
Cinm_camphora_MF421523            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
AJ966800_Cinm_camphora_Q102       TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
HQ415392_Cinm_camphora            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
KP093546_Cinm_camphora_SCBGP173_  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
JQ435499_Cinm_camphora            TAGTCCCCATTATTCCTCTGATTGGGTCATTGGCTTATGC
Cinm_camphora_MG021326            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
Cinm_camphora_MF156716            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
Cinm_camphora_NC035882            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
AJ247154_Cinm_camphora_R164       TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
EU153829_Cinm_camphora_K6469      TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
GU135093_Cinm_camphora_D0298      TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
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KF740401_Cinm_camphora            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
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KP093545_Cinm_camphora_SCBGP173_  TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
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MF589651_Cinm_camphora_efgh2      TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
HQ427401_Cinm_camphora            TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
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MF589649_Cinm_camphora_ijkl3      TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
JX495692_Cinm_camphora_H00168     TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC
Cinm_camphora_cf_G061425          TAGTCCCAATTATTCCTCTGATTGGATCATTGGCTAAAGC

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KX546068_Cinm_parthenoxylon_CXQ0  AAAATTTTGTAATGTATCAGGG
JQ435498_Cinm_parthenoxylon       AAATTTTTGTGATGTATCAGGG
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Cinm_camphora_MH050970            AAAATTTTGTAATGTATCAGGG
Cinm_camphora_MF421523            AAAATTTTGTAATGTATCAGGG
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Cinm_camphora_NC035882            AAAATTTTGTAATGTATCAGGG
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EU153829_Cinm_camphora_K6469      AAAATTTTGTAATGTATCAGGG
GU135093_Cinm_camphora_D0298      AAAATTTTGTAATGTATCAGGG
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Cinm_camphora_cf_G061425          AAAATTTTGTAATGTATCAGGG
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end;

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   Format labels=yes separator=Comma;
   TraitLabels camphora parthenoxylon questionable;

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      KP093276_Cinm_parthenoxylon_SCBG 0, 1, 0
      KP093277_Cinm_parthenoxylon_SCBG 0, 1, 0
      KX545925_Cinm_parthenoxylon_CXQ0 0, 1, 0
      KX546068_Cinm_parthenoxylon_CXQ0 0, 1, 0
      JQ435498_Cinm_parthenoxylon      0, 1, 0
      KJ510895_Cinm_parthenoxylon      0, 1, 0
      GQ434288_Cinm_parthenoxylon_PS16 0, 1, 0
      KX545924_Cinm_parthenoxylon_CXQ0 0, 1, 0
      Cinm_camphora_LC228240           1, 0, 0
      Cinm_camphora_MH050970           1, 0, 0
      Cinm_camphora_MF421523           1, 0, 0
      AJ966800_Cinm_camphora_Q102      1, 0, 0
      HQ415392_Cinm_camphora           1, 0, 0
      KP093546_Cinm_camphora_SCBGP173_ 1, 0, 0
      JQ435499_Cinm_camphora           1, 0, 0
      Cinm_camphora_MG021326           1, 0, 0
      Cinm_camphora_MF156716           1, 0, 0
      Cinm_camphora_NC035882           1, 0, 0
      AJ247154_Cinm_camphora_R164      1, 0, 0
      EU153829_Cinm_camphora_K6469     1, 0, 0
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      KF740401_Cinm_camphora           1, 0, 0
      KX545833_Cinm_camphora_LJ2006004 1, 0, 0
      KP093545_Cinm_camphora_SCBGP173_ 1, 0, 0
      KX546013_Cinm_camphora_CXQ0224   1, 0, 0
      KX546024_Cinm_camphora_CXQ0384   1, 0, 0
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      HQ427401_Cinm_camphora           1, 0, 0
      JN114745_Cinm_camphora_SBB1126   1, 0, 0
      MF589649_Cinm_camphora_ijkl3     1, 0, 0
      JX495692_Cinm_camphora_H00168    1, 0, 0
      Cinm_camphora_cf_G061425         0, 0, 1
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end;
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Nexus file of total ITS data used for haplotype analysis

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   taxlabels
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      Cinm_camphora_cf_G061425_NGS1
      JN115020_Cinm_camphora_SBB1126
      AF272260_Cinm_camphora
      JX242469_Cinm_camphora_CcN
      KP092856_Cinm_camphora_SCBGP173_
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      KP218518_Cinm_camphora_P2
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      KU139826_Cinm_camphora_CXQ265
      KX509822_Cinm_camphora_Rsn
      KX546414_Cinm_camphora_CXQ0384
      KX546537_Cinm_camphora_LJ2006004
      KX766404_Cinm_camphora_WKUCC65
      MF110040_Cinm_camphora_Lsn
      KP092858_Cinm_parthenoxylon_SCBG
      KU139870_Cinm_parthenoxylon_HQSB
      KU139871_Cinm_parthenoxylon_H201
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      MF110039_Cinm_camphora_G06_1425
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JN115020_Cinm_camphora_SBB1126     CCCTCTAGGCGCGGATAGTGCCAAGGAA---TCGAAACAG
AF272260_Cinm_camphora             CCCTCTAGGCGCGGAGAGTGCCAAGGAA---TCGAAACAG
JX242469_Cinm_camphora_CcN         CCCTCTAGGCGCGGATAGTGCCAAGGAA---TCGAAACAG
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KP218518_Cinm_camphora_P2          CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KT248576_Cinm_camphora_iso020      CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KU139826_Cinm_camphora_CXQ265      CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KX509822_Cinm_camphora_Rsn         CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KX546414_Cinm_camphora_CXQ0384     CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KX546537_Cinm_camphora_LJ2006004   CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KX766404_Cinm_camphora_WKUCC65     CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
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MF110040_Cinm_camphora_Lsn         CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG
KP092858_Cinm_parthenoxylon_SCBG   CCCTCTGGGCGCGGCGAGCGCCAAGGAA---TCGAAGCGG
KU139870_Cinm_parthenoxylon_HQSB   CCCTCTGGGCGCGGCGAGCGCCAAGGAA---TCGAAGCGG
KU139871_Cinm_parthenoxylon_H201   CCCTCTGGGCGCGGCGAGCGCCAAGGAA---TCGAAGCGG
KX546421_Cinm_parthenoxylon_CXQ0   CCCTCTGGGCGCGGCGAGCGCCAAGGAA---TCGAAGCGG
MF110054_Cinm_parthenoxylon_R178   CCCTCTGGGCGCGGCGAGCGCCAAGGAA---TCGAAGCGG
MF110039_Cinm_camphora_G06_1425    CCCTCTGGGCGCGGCGAGCGCCAAGGAATTATCGAAGCGG

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Cinm_camphora_cf_G061425_NGS1      AGGGGGCGGCCGCCCGGCCCGGTGCG--------------
JN115020_Cinm_camphora_SBB1126     AAAGGGCAGCCGCCTCGCCCTGTGCGAGC--ACGCCCCGG
AF272260_Cinm_camphora             AAAGGGCAGCCGCCTCGCCCTGTGCTAGC--ATGCCCCGG
JX242469_Cinm_camphora_CcN         AAAGGGCAGCCGCCTCGCCCAGTGCGAGC--ACGCCCCGG
KP092856_Cinm_camphora_SCBGP173_   AGGGGGCGGCCGCCCGGCCCGGTGCG--------------
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KX509822_Cinm_camphora_Rsn         AGGGGGCGGCCGCCCGGCCCGGTGCG--------------
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KX546537_Cinm_camphora_LJ2006004   AGGGGGCGGCCGCCCGGCCCGGTGCG--------------
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MF110040_Cinm_camphora_Lsn         AGGGGGCGGCCGCCCGGCCCGGTGCG--------------
KP092858_Cinm_parthenoxylon_SCBG   AAGGGGCGGCCGCCCCGCCCGGTGCG--------------
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KU139871_Cinm_parthenoxylon_H201   AAGGGGCGGCCGCCCCGCCCGGTGCG--------------
KX546421_Cinm_parthenoxylon_CXQ0   AAGGGGCGGCCGCCCCGCCCGGTGCG--------------
MF110054_Cinm_parthenoxylon_R178   AAGGGGCGGCCGCCCCGCCCGGTGCG--------------
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AF272260_Cinm_camphora             CCGGGGATGC--GGCATTGCGGCGGGGATCCGCCGCCCGT
JX242469_Cinm_camphora_CcN         CTAGGGATGC--GGCATTGCGGCCGGGATCCGCCGCCCGT
KP092856_Cinm_camphora_SCBGP173_   ---------------------GCGGGGACCGGCCGCCCGC
KP092857_Cinm_camphora_SCBGP173_   CCGGGGACGCGCGGCGCCGCGGTGGGGATCCGCCGCCCGC
KP218517_Cinm_camphora_P2          ---------------------GCGGGGACCGGCCGCCCGC
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KT248576_Cinm_camphora_iso020      ---------------------GCGGGGACCGGCCGCCCGC
KU139826_Cinm_camphora_CXQ265      ---------------------GCGGGGACCGGCCGCCCGC
KX509822_Cinm_camphora_Rsn         ---------------------GCGGGGACCGGCCGCCCGC
KX546414_Cinm_camphora_CXQ0384     ---------------------GCGGGGACCGGCCGCCCGC
KX546537_Cinm_camphora_LJ2006004   ---------------------GCGGGGACCGGCCGCCCGC
KX766404_Cinm_camphora_WKUCC65     ---------------------GCGGGGACCGGCCGCCCGC
MF110040_Cinm_camphora_Lsn         ---------------------GCGGGGACCGGCCGCCCGC
KP092858_Cinm_parthenoxylon_SCBG   ---------------------GCGGGGACCGGCCGCCCGC
KU139870_Cinm_parthenoxylon_HQSB   ---------------------GTGGGGACCGGCCGCCCGT
KU139871_Cinm_parthenoxylon_H201   ---------------------GCGGGGACCGGCCGCCCGC
KX546421_Cinm_parthenoxylon_CXQ0   ---------------------GCGGGGACCGGCCGCCCGC
MF110054_Cinm_parthenoxylon_R178   ---------------------GCGGGGACCGGCCGCCCGT
MF110039_Cinm_camphora_G06_1425    ---------------------GCGGGGACCGGCCGCCCGC

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AF272260_Cinm_camphora             CTGTGAATCTTTTAGACCACTCTCGGCAACGGATATCTCG
JX242469_Cinm_camphora_CcN         CTGTGAATCTTTTGGACTACTCTCGGCAACGGATATCTTA
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KT248576_Cinm_camphora_iso020      CTGTGAATCTCTTAGACGACTCTCGGCAACGGATATCTCG
KU139826_Cinm_camphora_CXQ265      CTGTGAATCTYTTAGACGACTCTCGGCAACGGATATCTCG
KX509822_Cinm_camphora_Rsn         CTGTGAATCTTTTAGACGACTCTCGGCAACGGATATCTCG
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KX546537_Cinm_camphora_LJ2006004   CTGTGAATCTYTTAGACGACTCTCGGCAACGGATATCTCG
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KX546421_Cinm_parthenoxylon_CXQ0   CTGTGAATCTCTTAGACGACTCTCGGCAACGGATATCTCG
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AF272260_Cinm_camphora             GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
JX242469_Cinm_camphora_CcN         TCTCTCGCATTGATGAAAAACGTAGCGAAATGCGATACTT
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KX546537_Cinm_camphora_LJ2006004   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
KX766404_Cinm_camphora_WKUCC65     GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
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KP092858_Cinm_parthenoxylon_SCBG   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
KU139870_Cinm_parthenoxylon_HQSB   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
KU139871_Cinm_parthenoxylon_H201   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
KX546421_Cinm_parthenoxylon_CXQ0   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
MF110054_Cinm_parthenoxylon_R178   GCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTT
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Cinm_camphora_cf_G061425_NGS1      GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
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KU139826_Cinm_camphora_CXQ265      GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
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KX766404_Cinm_camphora_WKUCC65    GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
MF110040_Cinm_camphora_Lsn        GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
KP092858_Cinm_parthenoxylon_SCBG  GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
KU139870_Cinm_parthenoxylon_HQSB  GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
KU139871_Cinm_parthenoxylon_H201  GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
KX546421_Cinm_parthenoxylon_CXQ0  GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
MF110054_Cinm_parthenoxylon_R178  GGTGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGA
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AF272260_Cinm_camphora            ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
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KP092856_Cinm_camphora_SCBGP173_  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
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KX766404_Cinm_camphora_WKUCC65    ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
MF110040_Cinm_camphora_Lsn        ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
KP092858_Cinm_parthenoxylon_SCBG  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
KU139870_Cinm_parthenoxylon_HQSB  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
KU139871_Cinm_parthenoxylon_H201  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
KX546421_Cinm_parthenoxylon_CXQ0  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
MF110054_Cinm_parthenoxylon_R178  ACGCAAGTTGCGCCCGAGGCCACTCGGCCGAGGGCACGCC
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Cinm_camphora_cf_G061425_NGS1     TGCCTGGGCGTCACGCCACCCRTCGCCCCC----GCCCCC
JN115020_Cinm_camphora_SBB1126    TGCCTGGGCGTCATGCCAGCCCCCCCCCCCCCCAAACCCC
AF272260_Cinm_camphora            TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
JX242469_Cinm_camphora_CcN        TGCCTGGGCATCATGCCACCCATCGCCCCCCCTGACCCCC
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KP218518_Cinm_camphora_P2         TGCCTGGGCGTCACGCCACCCGTCGCCCCC----ACCCCC
KT248576_Cinm_camphora_iso020     TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
KU139826_Cinm_camphora_CXQ265     TGCCTGGGCGTCACGCCACCCRTCGCCCCC----GCCCCC
KX509822_Cinm_camphora_Rsn        TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
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KX546537_Cinm_camphora_LJ2006004  TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
KX766404_Cinm_camphora_WKUCC65    TGCCTGGGCGTCACGCCACCCGTCGCCCCC----ACCCCC
MF110040_Cinm_camphora_Lsn        TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
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MF110054_Cinm_parthenoxylon_R178  TGCCTGGGCGTCACGCCACCCATCGCCCCC----GCCCCC
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JN115020_Cinm_camphora_SBB1126     GCGGCAATCCCATGCCCC-GCCGGGGAGCGGAGAATGCTC
AF272260_Cinm_camphora             ----------CACGCCCGGGGCGGGGAGCGGAGAATGGCC
JX242469_Cinm_camphora_CcN         GCGGCATTCCCATGCCCC-ACTGGGGAGCGGAGAATGGTC
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MF110040_Cinm_camphora_Lsn         ----------CACGCCCGGGGCGGGGAGCGGAGAATGGCC
KP092858_Cinm_parthenoxylon_SCBG   GCGGCATTCCCATGCCCGGGGCGGGGAGCGGAGAATGGCC
KU139870_Cinm_parthenoxylon_HQSB   GCGGCATTCCCATGCCCGGGGCGGGGAGCGGAGAATGGCC
KU139871_Cinm_parthenoxylon_H201   GCGGCATTCCCATGCCCGGGGCGGGGAGCGGAGAATGGCC
KX546421_Cinm_parthenoxylon_CXQ0   GCGGCATTCCCATGCCCGGGGCGGGGAGCGGAGAATGGCC
MF110054_Cinm_parthenoxylon_R178   GCGGCATTCCCATGCCCGGGGCGGGGAGCGGAGAATGGCC
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Cinm_camphora_cf_G061425_NGS2      GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
Cinm_camphora_cf_G061425_NGS1      GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
JN115020_Cinm_camphora_SBB1126     GTCCGTGCCCGAGTCCTCAG-GCACGGTCGGCAAAATA-G
AF272260_Cinm_camphora             GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
JX242469_Cinm_camphora_CcN         ATTCGTGCCCAAGTCCTTGG-GCGCGTTCAGCAGAAAA-G
KP092856_Cinm_camphora_SCBGP173_   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KP092857_Cinm_camphora_SCBGP173_   GTCCGTGCCCGAGCGATCGGCGCGCGGTCGGCAGAAAA-G
KP218517_Cinm_camphora_P2          GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KP218518_Cinm_camphora_P2          GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KT248576_Cinm_camphora_iso020      GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KU139826_Cinm_camphora_CXQ265      GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KX509822_Cinm_camphora_Rsn         GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KX546414_Cinm_camphora_CXQ0384     GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KX546537_Cinm_camphora_LJ2006004   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KX766404_Cinm_camphora_WKUCC65     GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
MF110040_Cinm_camphora_Lsn         GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KP092858_Cinm_parthenoxylon_SCBG   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KU139870_Cinm_parthenoxylon_HQSB   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KU139871_Cinm_parthenoxylon_H201   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
KX546421_Cinm_parthenoxylon_CXQ0   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
MF110054_Cinm_parthenoxylon_R178   GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG
MF110039_Cinm_camphora_G06_1425    GTCCGTGCCCGAGCCCTCGGCGCGCGGTCGGCGGAAAAAG

[                                  4444444444444444444444444444444444444444]
[                                  0000000001111111111222222222233333333334]
[                                  1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2      GAGGACACCGTGCGGCGCGRCACGGCGTGTGGGGGTTGAG
Cinm_camphora_cf_G061425_NGS1      GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
JN115020_Cinm_camphora_SBB1126     GAGGACACCGTGCGGCACAACACGGCATGTGGGGGATGAG
AF272260_Cinm_camphora             GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
JX242469_Cinm_camphora_CcN         GAGAACACCGTGCGACACGACACGGCATGTGGGGGTTGAG
KP092856_Cinm_camphora_SCBGP173_   GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KP092857_Cinm_camphora_SCBGP173_   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGTG
KP218517_Cinm_camphora_P2          GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
```

```
KP218518_Cinm_camphora_P2          GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KT248576_Cinm_camphora_iso020      GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KU139826_Cinm_camphora_CXQ265      GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KX509822_Cinm_camphora_Rsn         GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KX546414_Cinm_camphora_CXQ0384     GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KX546537_Cinm_camphora_LJ2006004   GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KX766404_Cinm_camphora_WKUCC65     GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
MF110040_Cinm_camphora_Lsn         GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG
KP092858_Cinm_parthenoxylon_SCBG   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGAG
KU139870_Cinm_parthenoxylon_HQSB   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGAG
KU139871_Cinm_parthenoxylon_H201   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGAG
KX546421_Cinm_parthenoxylon_CXQ0   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGAG
MF110054_Cinm_parthenoxylon_R178   GAGGACACCGTGCGGCGCGACACGGCGTGTGGGGGTTGAG
MF110039_Cinm_camphora_G06_1425    GAGGACACCGTGCGGCGCGGCACGGCGTGTGGGGGTTGAG

[                                  444444444]
[                                  444444444]
[                                  123456789]
Cinm_camphora_cf_G061425_NGS2      A--GGCGAT
Cinm_camphora_cf_G061425_NGS1      A--GGCGAT
JN115020_Cinm_camphora_SBB1126     A--GGCGAT
AF272260_Cinm_camphora             A--GGCGAT
JX242469_Cinm_camphora_CcN         A--GGCGAT
KP092856_Cinm_camphora_SCBGP173_   A--GGCGAT
KP092857_Cinm_camphora_SCBGP173_   AGAGGCGAC
KP218517_Cinm_camphora_P2          A--GGCGAT
KP218518_Cinm_camphora_P2          A--GGCGAT
KT248576_Cinm_camphora_iso020      A--GGCGAT
KU139826_Cinm_camphora_CXQ265      A--GGCGAT
KX509822_Cinm_camphora_Rsn         A--GGCGAT
KX546414_Cinm_camphora_CXQ0384     A--GGCGAT
KX546537_Cinm_camphora_LJ2006004   A--GGCGAT
KX766404_Cinm_camphora_WKUCC65     A--GGCGAT
MF110040_Cinm_camphora_Lsn         A--GGCGAT
KP092858_Cinm_parthenoxylon_SCBG   A--GGCGAT
KU139870_Cinm_parthenoxylon_HQSB   A--GGCGAT
KU139871_Cinm_parthenoxylon_H201   A--GGCGAT
KX546421_Cinm_parthenoxylon_CXQ0   A--GGCGAT
MF110054_Cinm_parthenoxylon_R178   A--GGCGAT
MF110039_Cinm_camphora_G06_1425    A--GGCGAT
;
end;

begin traits;
   Dimensions NTraits=3;
   Format labels=yes separator=Comma;
   TraitLabels camphora parthenoxylon questionable;

matrix
Cinm_camphora_cf_G061425_NGS2      0, 0, 1
Cinm_camphora_cf_G061425_NGS1      0, 0, 1
JN115020_Cinm_camphora_SBB1126     1, 0, 0
AF272260_Cinm_camphora             1, 0, 0
JX242469_Cinm_camphora_CcN         1, 0, 0
KP092856_Cinm_camphora_SCBGP173_   1, 0, 0
KP092857_Cinm_camphora_SCBGP173_   1, 0, 0
KP218517_Cinm_camphora_P2          1, 0, 0
KP218518_Cinm_camphora_P2          1, 0, 0
KT248576_Cinm_camphora_iso020      1, 0, 0
KU139826_Cinm_camphora_CXQ265      1, 0, 0
KX509822_Cinm_camphora_Rsn         1, 0, 0
KX546414_Cinm_camphora_CXQ0384     1, 0, 0
KX546537_Cinm_camphora_LJ2006004   1, 0, 0
```

```
KX766404_Cinm_camphora_WKUCC65    1, 0, 0
MF110040_Cinm_camphora_Lsn        1, 0, 0
KP092858_Cinm_parthenoxylon_SCBG  0, 1, 0
KU139870_Cinm_parthenoxylon_HQSB  0, 1, 0
KU139871_Cinm_parthenoxylon_H201  0, 1, 0
KX546421_Cinm_parthenoxylon_CXQ0  0, 1, 0
MF110054_Cinm_parthenoxylon_R178  0, 1, 0
MF110039_Cinm_camphora_G06_1425   0, 0, 1
;
end;
```

Nexus file of ITS-1 data used for haplotype analysis

```
#NEXUS
[ Title ]
begin taxa;
   dimensions ntax= 21;
   taxlabels
      Cinm_camphora_cf_G061425_NGS2
      Cinm_camphora_cf_G061425_NGS1
      AF272260_Cinm_camphora
      JX242469_Cinm_camphora_CcN
      KP092856_Cinm_camphora_SCBGP173_
      KP092857_Cinm_camphora_SCBGP173_
      KP218517_Cinm_camphora_P2
      KP218518_Cinm_camphora_P2
      KT248576_Cinm_camphora_iso020
      KU139826_Cinm_camphora_CXQ265
      KX509822_Cinm_camphora_Rsn
      KX546414_Cinm_camphora_CXQ0384
      KX546537_Cinm_camphora_LJ2006004
      KX766404_Cinm_camphora_WKUCC65
      MF110040_Cinm_camphora_Lsn
      KP092858_Cinm_parthenoxylon_SCBG
      KU139870_Cinm_parthenoxylon_HQSB
      KU139871_Cinm_parthenoxylon_H201
      KX546421_Cinm_parthenoxylon_CXQ0
      MF110054_Cinm_parthenoxylon_R178
      MF110039_Cinm_camphora_G06_1425
;
end;
begin characters;
   dimensions nchar= 151;
   format missing=? gap=- matchchar=. datatype=nucleotide interleave=yes;
   matrix

[!Domain=Data;]
[                                          111111111122222222223333333334]
[                                  123456789012345678901234567890123456789 0]
Cinm_camphora_cf_G061425_NGS2      CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
Cinm_camphora_cf_G061425_NGS1      CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
AF272260_Cinm_camphora             CGAGCTCCAAACAG---CCCTCTAGGCGCGGAGAGTGCCA
JX242469_Cinm_camphora_CcN         CGAGCTCCAAACAG---CCCTCTAGGCGCGGATAGTGCCA
KP092856_Cinm_camphora_SCBGP173_   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KP092857_Cinm_camphora_SCBGP173_   CGAGCTCCGAACAACAACCCTCTGGGCGCGGCGAGCGCCA
KP218517_Cinm_camphora_P2          CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KP218518_Cinm_camphora_P2          CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KT248576_Cinm_camphora_iso020      CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KU139826_Cinm_camphora_CXQ265      CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KX509822_Cinm_camphora_Rsn         CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KX546414_Cinm_camphora_CXQ0384     CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KX546537_Cinm_camphora_LJ2006004   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KX766404_Cinm_camphora_WKUCC65     CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
```

```
MF110040_Cinm_camphora_Lsn         CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KP092858_Cinm_parthenoxylon_SCBG   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KU139870_Cinm_parthenoxylon_HQSB   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KU139871_Cinm_parthenoxylon_H201   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
KX546421_Cinm_parthenoxylon_CXQ0   CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
MF110054_Cinm_parthenoxylon_R178   CGAGCTCGGAACAA---CCCTCTGGGCGCGGCGAGCGCCA
MF110039_Cinm_camphora_G06_1425    CGAGCTCCGAACAA---CCCTCTGGGCGCGGCGAGCGCCA

[                                  4444444445555555555666666666677777777778]
[                                  1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2      AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
Cinm_camphora_cf_G061425_NGS1      AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
AF272260_Cinm_camphora             AGGAA---TCGAAACAGAAAGGGCAGCCGCCTCGCCCTGT
JX242469_Cinm_camphora_CcN         AGGAA---TCGAAACAGAAAGGGCAGCCGCCTCGCCCAGT
KP092856_Cinm_camphora_SCBGP173_   AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KP092857_Cinm_camphora_SCBGP173_   AGGAA---TCGAAGCGGAAAGGGCGGCCGCCTCGCCCGGC
KP218517_Cinm_camphora_P2          AGGAATTATCGAAGCGGAAGGGGCGGCCGCCCGGCCCGGT
KP218518_Cinm_camphora_P2          AGGAATTATCGAAGCGGAAGGGGCGGCCGCCCGGCCCGGT
KT248576_Cinm_camphora_iso020      AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KU139826_Cinm_camphora_CXQ265      AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KX509822_Cinm_camphora_Rsn         AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KX546414_Cinm_camphora_CXQ0384     AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KX546537_Cinm_camphora_LJ2006004   AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KX766404_Cinm_camphora_WKUCC65     AGGAATTATCGAAGCGGAAGGGGCGGCCGCCCGGCCCGGT
MF110040_Cinm_camphora_Lsn         AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT
KP092858_Cinm_parthenoxylon_SCBG   AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
KU139870_Cinm_parthenoxylon_HQSB   AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
KU139871_Cinm_parthenoxylon_H201   AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
KX546421_Cinm_parthenoxylon_CXQ0   AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
MF110054_Cinm_parthenoxylon_R178   AGGAA---TCGAAGCGGAAGGGGCGGCCGCCCCGCCCGGT
MF110039_Cinm_camphora_G06_1425    AGGAATTATCGAAGCGGAGGGGGCGGCCGCCCGGCCCGGT

[                                                      1111111111111111111]
[                                  8888888889999999999000000000011111111112]
[                                  1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2      GCG-----------------------------------GC
Cinm_camphora_cf_G061425_NGS1      GCG-----------------------------------GC
AF272260_Cinm_camphora             GCTAGC--ATGCCCCGGCCGGGGATGC--GGCATTGCGGC
JX242469_Cinm_camphora_CcN         GCGAGC--ACGCCCCGGCTAGGGATGC--GGCATTGCGGC
KP092856_Cinm_camphora_SCBGP173_   GCG-----------------------------------GC
KP092857_Cinm_camphora_SCBGP173_   GCGAGCGCGCGCCCCGGCCGGGGACGCGCGGCGCCGCGGT
KP218517_Cinm_camphora_P2          GCG-----------------------------------GC
KP218518_Cinm_camphora_P2          GCG-----------------------------------GC
KT248576_Cinm_camphora_iso020      GCG-----------------------------------GC
KU139826_Cinm_camphora_CXQ265      GCG-----------------------------------GC
KX509822_Cinm_camphora_Rsn         GCG-----------------------------------GC
KX546414_Cinm_camphora_CXQ0384     GCG-----------------------------------GC
KX546537_Cinm_camphora_LJ2006004   GCG-----------------------------------GC
KX766404_Cinm_camphora_WKUCC65     GCG-----------------------------------GC
MF110040_Cinm_camphora_Lsn         GCG-----------------------------------GC
KP092858_Cinm_parthenoxylon_SCBG   GCG-----------------------------------GC
KU139870_Cinm_parthenoxylon_HQSB   GCG-----------------------------------GT
KU139871_Cinm_parthenoxylon_H201   GCG-----------------------------------GC
KX546421_Cinm_parthenoxylon_CXQ0   GCG-----------------------------------GC
MF110054_Cinm_parthenoxylon_R178   GCG-----------------------------------GC
MF110039_Cinm_camphora_G06_1425    GCG-----------------------------------GC

[                                  1111111111111111111111111111111]
[                                  2222222223333333333444444444455]
[                                  1234567890123456789012345678901]
Cinm_camphora_cf_G061425_NGS2      GGGGACCGGCCGCCCGCCYGTGAAYCTCTTA
Cinm_camphora_cf_G061425_NGS1      GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
AF272260_Cinm_camphora             GGGGATCCGCCGCCCGTCTGTGAATCTTTTA
```

```
JX242469_Cinm_camphora_CcN        CGGGATCCGCCGCCCGTCTGTGAATCTTTTG
KP092856_Cinm_camphora_SCBGP173_  GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KP092857_Cinm_camphora_SCBGP173_  GGGGATCCGCCGCCCGCCTGTGAATCTTTTA
KP218517_Cinm_camphora_P2         GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KP218518_Cinm_camphora_P2         GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KT248576_Cinm_camphora_iso020     GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
KU139826_Cinm_camphora_CXQ265     GGGGACCGGCCGCCCGCCTGTGAATCTYTTA
KX509822_Cinm_camphora_Rsn        GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KX546414_Cinm_camphora_CXQ0384    GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KX546537_Cinm_camphora_LJ2006004  GGGGACCGGCCGCCCGCCTGTGAATCTYTTA
KX766404_Cinm_camphora_WKUCC65    GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
MF110040_Cinm_camphora_Lsn        GGGGACCGGCCGCCCGCCTGTGAATCTTTTA
KP092858_Cinm_parthenoxylon_SCBG  GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
KU139870_Cinm_parthenoxylon_HQSB  GGGGACCGGCCGCCCGTCTGTGAATATTTTA
KU139871_Cinm_parthenoxylon_H201  GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
KX546421_Cinm_parthenoxylon_CXQ0  GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
MF110054_Cinm_parthenoxylon_R178  GGGGACCGGCCGCCCGTCTGTGAATCTTTTA
MF110039_Cinm_camphora_G06_1425   GGGGACCGGCCGCCCGCCTGTGAATCTCTTA
;
end;

begin traits;
   Dimensions NTraits=3;
   Format labels=yes separator=Comma;
   TraitLabels camphora parthenoxylon questionable;

matrix
Cinm_camphora_cf_G061425_NGS2     0, 0, 1
Cinm_camphora_cf_G061425_NGS1     0, 0, 1
AF272260_Cinm_camphora            1, 0, 0
JX242469_Cinm_camphora_CcN        1, 0, 0
KP092856_Cinm_camphora_SCBGP173_  1, 0, 0
KP092857_Cinm_camphora_SCBGP173_  1, 0, 0
KP218517_Cinm_camphora_P2         1, 0, 0
KP218518_Cinm_camphora_P2         1, 0, 0
KT248576_Cinm_camphora_iso020     1, 0, 0
KU139826_Cinm_camphora_CXQ265     1, 0, 0
KX509822_Cinm_camphora_Rsn        1, 0, 0
KX546414_Cinm_camphora_CXQ0384    1, 0, 0
KX546537_Cinm_camphora_LJ2006004  1, 0, 0
KX766404_Cinm_camphora_WKUCC65    1, 0, 0
MF110040_Cinm_camphora_Lsn        1, 0, 0
KP092858_Cinm_parthenoxylon_SCBG  0, 1, 0
KU139870_Cinm_parthenoxylon_HQSB  0, 1, 0
KU139871_Cinm_parthenoxylon_H201  0, 1, 0
KX546421_Cinm_parthenoxylon_CXQ0  0, 1, 0
MF110054_Cinm_parthenoxylon_R178  0, 1, 0
MF110039_Cinm_camphora_G06_1425   0, 0, 1
;
end;
```

Nexus file of ITS-2 data used for haplotype analysis

```
#NEXUS
[ Title ]
begin taxa;
   dimensions ntax= 30;
   taxlabels
      Cinm_camphora_cf_G061425_NGS2
      Cinm_camphora_cf_G061425_NGS1
      MF096119_Cinm_camphora_KPS0050A0
      MF096120_Cinm_camphora_KPS0050A0
      MF096121_Cinm_camphora_KPS0050A0
```

```
      KX546586_Cinm_camphora_CXQ0384
      KX546756_Cinm_camphora_LJ2006004
      KP096040_Cinm_parthenoxylon_SCBG
      KU139869_Cinm_parthenoxylon_CXQ2
      KX546594_Cinm_parthenoxylon_CXQ0
      KX546593_Cinm_parthenoxylon_CXQ0
      AF272260_Cinm_camphora
      JX242469_Cinm_camphora_CcN
      KP092856_Cinm_camphora_SCBGP173_
      KP092857_Cinm_camphora_SCBGP173_
      KP218517_Cinm_camphora_P2
      KP218518_Cinm_camphora_P2
      KT248576_Cinm_camphora_iso020
      KU139826_Cinm_camphora_CXQ265
      KX509822_Cinm_camphora_Rsn
      KX546414_Cinm_camphora_CXQ0384
      KX546537_Cinm_camphora_LJ2006004
      KX766404_Cinm_camphora_WKUCC65
      MF110040_Cinm_camphora_Lsn
      KP092858_Cinm_parthenoxylon_SCBG
      KU139870_Cinm_parthenoxylon_HQSB
      KU139871_Cinm_parthenoxylon_H201
      KX546421_Cinm_parthenoxylon_CXQ0
      MF110054_Cinm_parthenoxylon_R178
      MF110039_Cinm_camphora_G06_1425
;
end;
begin characters;
   dimensions nchar= 220;
   format missing=? gap=- matchchar=. datatype=nucleotide interleave=yes;
   matrix

[!Domain=Data;]
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[                                  1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2      CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
Cinm_camphora_cf_G061425_NGS1      CGCCACCCRTCGCCCCC----GCCCCC----------CAC
MF096119_Cinm_camphora_KPS0050A0   TGCCACCCATCGCCCCTCCTGACCCCCGCGGCATTCCCAT
MF096120_Cinm_camphora_KPS0050A0   TGCCACCCATCGCCCCTCCTGACCCCCGCGGCATTCCCAT
MF096121_Cinm_camphora_KPS0050A0   TGCCACCCATCGCCCCTCCTGACCCCCGCGGCATTCCCAT
KX546586_Cinm_camphora_CXQ0384     CGCCACCCGTCGCCCCC----GCCCCC----------CAC
KX546756_Cinm_camphora_LJ2006004   CGCCACCCATCGCCCCC----GCCCCC----------CAC
KP096040_Cinm_parthenoxylon_SCBG   CGCCACCCATCGCCCCC----GCCCCC----------CAC
KU139869_Cinm_parthenoxylon_CXQ2   CGCCACCCATCGCCCCCCC---CCCCCGCGGCATTCCCAT
KX546594_Cinm_parthenoxylon_CXQ0   CGCCACCCATCGCCCCCCC---CCCCCGCGGCATTCCCAT
KX546593_Cinm_parthenoxylon_CXQ0   CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
AF272260_Cinm_camphora             CGCCACCCATCGCCCCC----GCCCCC----------CAC
JX242469_Cinm_camphora_CcN         TGCCACCCATCGCCCCCCCTGACCCCCGCGGCATTCCCAT
KP092856_Cinm_camphora_SCBGP173_   CGCCACCCATCGCCCCC----GCCCCC----------CAC
KP092857_Cinm_camphora_SCBGP173_   CGCCACCCATCGCCCCC-------CGCGCGGCATTCCCAT
KP218517_Cinm_camphora_P2          CGCCACCCGTCGCCCCC----ACCCCC----------CAC
KP218518_Cinm_camphora_P2          CGCCACCCGTCGCCCCC----ACCCCC----------CAC
KT248576_Cinm_camphora_iso020      CGCCACCCATCGCCCCC----GCCCCC----------CAC
KU139826_Cinm_camphora_CXQ265      CGCCACCCRTCGCCCCC----GCCCCC----------CAC
KX509822_Cinm_camphora_Rsn         CGCCACCCATCGCCCCC----GCCCCC----------CAC
KX546414_Cinm_camphora_CXQ0384     CGCCACCCGTCGCCCCC----GCCCCC----------CAC
KX546537_Cinm_camphora_LJ2006004   CGCCACCCATCGCCCCC----GCCCCC----------CAC
KX766404_Cinm_camphora_WKUCC65     CGCCACCCGTCGCCCCC----ACCCCC----------CAC
MF110040_Cinm_camphora_Lsn         CGCCACCCATCGCCCCC----GCCCCC----------CAC
KP092858_Cinm_parthenoxylon_SCBG   CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
KU139870_Cinm_parthenoxylon_HQSB   CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
KU139871_Cinm_parthenoxylon_H201   CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
KX546421_Cinm_parthenoxylon_CXQ0   CGCCACCCATCGCCCCC----ACCCCCGCGGCATTCCCAT
```

```
MF110054_Cinm_parthenoxylon_R178  CGCCACCCATCGCCCCC----GCCCCCGCGGCATTCCCAT
MF110039_Cinm_camphora_G06_1425   CGCCACCCRTCGCCCCC----GCCCCC----------CAC

[                                 444444444555555555566666666667777777778]
[                                 123456789012345678901234567890123456789 0]
Cinm_camphora_cf_G061425_NGS2     GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
Cinm_camphora_cf_G061425_NGS1     GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
MF096119_Cinm_camphora_KPS0050A0  GCCCC-GCTGGGGAGCGGAGAATGGTCATTCGTACCCAAG
MF096120_Cinm_camphora_KPS0050A0  GCCCC-GCTGGGGAGCGGAGAATGGTCATTCGTACCCAAG
MF096121_Cinm_camphora_KPS0050A0  GCCCC-GCTGGGGAGCGGAGAATGGTCATTCGTACCCAAG
KX546586_Cinm_camphora_CXQ0384    GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546756_Cinm_camphora_LJ2006004  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KP096040_Cinm_parthenoxylon_SCBG  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KU139869_Cinm_parthenoxylon_CXQ2  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546594_Cinm_parthenoxylon_CXQ0  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546593_Cinm_parthenoxylon_CXQ0  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
AF272260_Cinm_camphora            GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
JX242469_Cinm_camphora_CcN        GCCCC-ACTGGGGAGCGGAGAATGGTCATTCGTGCCCAAG
KP092856_Cinm_camphora_SCBGP173_  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KP092857_Cinm_camphora_SCBGP173_  GCCCC-GCCGGGGAGCGGAGACTGGCCGTCCGTGCCCGAG
KP218517_Cinm_camphora_P2         GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KP218518_Cinm_camphora_P2         GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KT248576_Cinm_camphora_iso020     GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KU139826_Cinm_camphora_CXQ265     GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX509822_Cinm_camphora_Rsn        GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546414_Cinm_camphora_CXQ0384    GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546537_Cinm_camphora_LJ2006004  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX766404_Cinm_camphora_WKUCC65    GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
MF110040_Cinm_camphora_Lsn        GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KP092858_Cinm_parthenoxylon_SCBG  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KU139870_Cinm_parthenoxylon_HQSB  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KU139871_Cinm_parthenoxylon_H201  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
KX546421_Cinm_parthenoxylon_CXQ0  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
MF110054_Cinm_parthenoxylon_R178  GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG
MF110039_Cinm_camphora_G06_1425   GCCCGGGGCGGGGAGCGGAGAATGGCCGTCCGTGCCCGAG

[                                                       1111111111111111111 1]
[                                 888888888999999999900000000011111111112]
[                                 123456789012345678901234567890123456789 0]
Cinm_camphora_cf_G061425_NGS2     CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
Cinm_camphora_cf_G061425_NGS1     CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
MF096119_Cinm_camphora_KPS0050A0  TCCTCAG-GCGCGTTTAGCAGAAAA-GGAGAACACCGTGC
MF096120_Cinm_camphora_KPS0050A0  TCCTCAG-GCGCGTTTAGCAGAAAA-GGAGAACACCGTGC
MF096121_Cinm_camphora_KPS0050A0  TCCTCAG-GCGCGTTTAGCAGAAAA-GGAGAACACCGTGC
KX546586_Cinm_camphora_CXQ0384    CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546756_Cinm_camphora_LJ2006004  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KP096040_Cinm_parthenoxylon_SCBG  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KU139869_Cinm_parthenoxylon_CXQ2  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546594_Cinm_parthenoxylon_CXQ0  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546593_Cinm_parthenoxylon_CXQ0  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
AF272260_Cinm_camphora            CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
JX242469_Cinm_camphora_CcN        TCCTTGG-GCGCGTTCAGCAGAAAA-GGAGAACACCGTGC
KP092856_Cinm_camphora_SCBGP173_  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KP092857_Cinm_camphora_SCBGP173_  CGATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGC
KP218517_Cinm_camphora_P2         CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KP218518_Cinm_camphora_P2         CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KT248576_Cinm_camphora_iso020     CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KU139826_Cinm_camphora_CXQ265     CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX509822_Cinm_camphora_Rsn        CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546414_Cinm_camphora_CXQ0384    CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546537_Cinm_camphora_LJ2006004  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX766404_Cinm_camphora_WKUCC65    CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
MF110040_Cinm_camphora_Lsn        CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
```

```
KP092858_Cinm_parthenoxylon_SCBG  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KU139870_Cinm_parthenoxylon_HQSB  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KU139871_Cinm_parthenoxylon_H201  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
KX546421_Cinm_parthenoxylon_CXQ0  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
MF110054_Cinm_parthenoxylon_R178  CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC
MF110039_Cinm_camphora_G06_1425   CCCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGC

[                                 1111111111111111111111111111111111111111]
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[                                 1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2     GGCGCGRCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
Cinm_camphora_cf_G061425_NGS1     GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
MF096119_Cinm_camphora_KPS0050A0  GACACGACACGGCATGTGGGGGTTGAGA--GGCGATTTGT
MF096120_Cinm_camphora_KPS0050A0  GACACGACACGGCATGTGGGGGTTGAGA--GGCGATTTGT
MF096121_Cinm_camphora_KPS0050A0  GACACGACACGGCATGTGGGGGTTGAGA--GGCGATTTGT
KX546586_Cinm_camphora_CXQ0384    GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546756_Cinm_camphora_LJ2006004  GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KP096040_Cinm_parthenoxylon_SCBG  GGCGCGRCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KU139869_Cinm_parthenoxylon_CXQ2  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546594_Cinm_parthenoxylon_CXQ0  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546593_Cinm_parthenoxylon_CXQ0  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
AF272260_Cinm_camphora            GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
JX242469_Cinm_camphora_CcN        GACACGACACGGCATGTGGGGGTTGAGA--GGCGATTTGT
KP092856_Cinm_camphora_SCBGP173_  GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KP092857_Cinm_camphora_SCBGP173_  GGCGCGACACGGCGTGTGGGGGTTGTGAGAGGCGACCCGT
KP218517_Cinm_camphora_P2         GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KP218518_Cinm_camphora_P2         GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KT248576_Cinm_camphora_iso020     GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KU139826_Cinm_camphora_CXQ265     GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX509822_Cinm_camphora_Rsn        GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546414_Cinm_camphora_CXQ0384    GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546537_Cinm_camphora_LJ2006004  GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX766404_Cinm_camphora_WKUCC65    GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
MF110040_Cinm_camphora_Lsn        GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KP092858_Cinm_parthenoxylon_SCBG  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KU139870_Cinm_parthenoxylon_HQSB  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KU139871_Cinm_parthenoxylon_H201  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
KX546421_Cinm_parthenoxylon_CXQ0  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
MF110054_Cinm_parthenoxylon_R178  GGCGCGACACGGCGTGTGGGGGTTGAGA--GGCGATCCGT
MF110039_Cinm_camphora_G06_1425   GGCGCGGCACGGCGTGTGGGGGTTGAGA--GGCGATCCGT

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[                                 6666666667777777777888888888899999999990]
[                                 1234567890123456789012345678901234567890]
Cinm_camphora_cf_G061425_NGS2     CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
Cinm_camphora_cf_G061425_NGS1     CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
MF096119_Cinm_camphora_KPS0050A0  CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCGGAGC
MF096120_Cinm_camphora_KPS0050A0  CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCGGAGC
MF096121_Cinm_camphora_KPS0050A0  CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCGGAGC
KX546586_Cinm_camphora_CXQ0384    CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KX546756_Cinm_camphora_LJ2006004  CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KP096040_Cinm_parthenoxylon_SCBG  CGCCGATCGTACGYCGCGCCCGCATTCCGCCGCGCGGATC
KU139869_Cinm_parthenoxylon_CXQ2  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
KX546594_Cinm_parthenoxylon_CXQ0  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
KX546593_Cinm_parthenoxylon_CXQ0  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
AF272260_Cinm_camphora            CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
JX242469_Cinm_camphora_CcN        CGCCGATCGTACGTTGCACCCTCATTCCGCCGCTCGAAGC
KP092856_Cinm_camphora_SCBGP173_  CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KP092857_Cinm_camphora_SCBGP173_  CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCGGTGC
KP218517_Cinm_camphora_P2         CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KP218518_Cinm_camphora_P2         CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KT248576_Cinm_camphora_iso020     CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KU139826_Cinm_camphora_CXQ265     CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
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```
KX509822_Cinm_camphora_Rsn        CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KX546414_Cinm_camphora_CXQ0384    CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KX546537_Cinm_camphora_LJ2006004  CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KX766404_Cinm_camphora_WKUCC65    CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
MF110040_Cinm_camphora_Lsn        CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC
KP092858_Cinm_parthenoxylon_SCBG  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
KU139870_Cinm_parthenoxylon_HQSB  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
KU139871_Cinm_parthenoxylon_H201  CGCCGATCGTACGTCGCGCCCGCATTCGGCCGCGCGGATC
KX546421_Cinm_parthenoxylon_CXQ0  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
MF110054_Cinm_parthenoxylon_R178  CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGGATC
MF110039_Cinm_camphora_G06_1425   CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCGGATC

[                                 22222222222222222222]
[                                 00000000011111111112]
[                                 12345678901234567890]
Cinm_camphora_cf_G061425_NGS2     CG-CCCGCGGGACCAGACCC
Cinm_camphora_cf_G061425_NGS1     CA-CCCGCGGGACCAGACCC
MF096119_Cinm_camphora_KPS0050A0  CA-CTCATGGGACCAAACTC
MF096120_Cinm_camphora_KPS0050A0  CA-CTCATGGGACCAAACTC
MF096121_Cinm_camphora_KPS0050A0  CA-CTCATGGGACCAAACTC
KX546586_Cinm_camphora_CXQ0384    CA-CCCGCGGGACCAGACCC
KX546756_Cinm_camphora_LJ2006004  CA-CCCGCGGGACCAGACCC
KP096040_Cinm_parthenoxylon_SCBG  CR-CCCGCGGGACCAGACCC
KU139869_Cinm_parthenoxylon_CXQ2  CA-CCCGCGGGACCAGACCC
KX546594_Cinm_parthenoxylon_CXQ0  CA-CCCGCGGGACCAGACCC
KX546593_Cinm_parthenoxylon_CXQ0  CG-CCCGCGGGACCAGACCC
AF272260_Cinm_camphora            CA-CCCGCGGGACCAGACCC
JX242469_Cinm_camphora_CcN        CA-CTCATGGAACCAAACTC
KP092856_Cinm_camphora_SCBGP173_  CA-CCCGCGGGACCAGACCC
KP092857_Cinm_camphora_SCBGP173_  CA-CCCGTGGGACCATACCC
KP218517_Cinm_camphora_P2         CA-CCGGCGGGACCAGACCC
KP218518_Cinm_camphora_P2         CA-CCGGCGGGACCAGACCC
KT248576_Cinm_camphora_iso020     CA-CCCGCGGGACCAGACCC
KU139826_Cinm_camphora_CXQ265     CA-CCCGCGGGACCAGACCC
KX509822_Cinm_camphora_Rsn        CA-CCCGCGGGACCAGACCC
KX546414_Cinm_camphora_CXQ0384    CA-CCCGCGGGACCAGACCC
KX546537_Cinm_camphora_LJ2006004  CA-CCCGCGGGACCAGACCC
KX766404_Cinm_camphora_WKUCC65    CA-CCGGCGGGACCAGACCC
MF110040_Cinm_camphora_Lsn        CA-CCCGCGGGACCAGACCC
KP092858_Cinm_parthenoxylon_SCBG  CG-CCCGCGGGACCAGACCC
KU139870_Cinm_parthenoxylon_HQSB  CA-CCCGCGGGACCGGACCC
KU139871_Cinm_parthenoxylon_H201  CAACCCGCGGGACCAGACCC
KX546421_Cinm_parthenoxylon_CXQ0  CG-CCCGCGGGACCAGACCC
MF110054_Cinm_parthenoxylon_R178  CA-CCCGCGGGACCAGACCC
MF110039_Cinm_camphora_G06_1425   CA-CCCGCGGGACCAGACCC
;
end;

begin traits;
   Dimensions NTraits=3;
   Format labels=yes separator=Comma;
   TraitLabels camphora parthenoxylon questionable;

matrix
      Cinm_camphora_cf_G061425_NGS2    0, 0, 1
      Cinm_camphora_cf_G061425_NGS1    0, 0, 1
      MF096119_Cinm_camphora_KPS0050A0 1, 0, 0
      MF096120_Cinm_camphora_KPS0050A0 1, 0, 0
      MF096121_Cinm_camphora_KPS0050A0 1, 0, 0
      KX546586_Cinm_camphora_CXQ0384   1, 0, 0
      KX546756_Cinm_camphora_LJ2006004 1, 0, 0
      KP096040_Cinm_parthenoxylon_SCBG 0, 1, 0
      KU139869_Cinm_parthenoxylon_CXQ2 0, 1, 0
```

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      KX546594_Cinm_parthenoxylon_CXQ0 0, 1, 0
      KX546593_Cinm_parthenoxylon_CXQ0 0, 1, 0
      AF272260_Cinm_camphora           1, 0, 0
      JX242469_Cinm_camphora_CcN       1, 0, 0
      KP092856_Cinm_camphora_SCBGP173_ 1, 0, 0
      KP092857_Cinm_camphora_SCBGP173_ 1, 0, 0
      KP218517_Cinm_camphora_P2        1, 0, 0
      KP218518_Cinm_camphora_P2        1, 0, 0
      KT248576_Cinm_camphora_iso020    1, 0, 0
      KU139826_Cinm_camphora_CXQ265    1, 0, 0
      KX509822_Cinm_camphora_Rsn       1, 0, 0
      KX546414_Cinm_camphora_CXQ0384   1, 0, 0
      KX546537_Cinm_camphora_LJ2006004 1, 0, 0
      KX766404_Cinm_camphora_WKUCC65   1, 0, 0
      MF110040_Cinm_camphora_Lsn       1, 0, 0
      KP092858_Cinm_parthenoxylon_SCBG 0, 1, 0
      KU139870_Cinm_parthenoxylon_HQSB 0, 1, 0
      KU139871_Cinm_parthenoxylon_H201 0, 1, 0
      KX546421_Cinm_parthenoxylon_CXQ0 0, 1, 0
      MF110054_Cinm_parthenoxylon_R178 0, 1, 0
      MF110039_Cinm_camphora_G06_1425  0, 0, 1
;
end;
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Nexus file of total ITS data used for maximum likelihood analysis

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#NEXUS
[ Title Cinm_ITS]
begin taxa;
   dimensions ntax= 61;
   taxlabels
      Aiou_costaricensis_G8241
      Aiou_saligna_M3165
      Anib_firmula_M3356
      C_cam_AF272260
      C_cam_JN115020
      C_cam_JX242469
      C_cam_KP092856
      C_cam_KP092857
      C_cam_KP218517
      C_cam_KT248576
      C_cam_KU139826
      C_cam_KX546414
      C_cam_KX546537
      C_cam_KX766404
      C_cam_MF096119
      C_cam_MF096120
      C_cam_MF096121
      C_cam_MF110040
      C_par_KP092858
      C_par_KU139871
      C_par_KX546421
      C_par_MF110054
      C_por_d_MF110039
      Aiou_alainii_EH11506
      Aiou_amoena_R1072
      Cinm_burmannii_LR2010_10
      Cinm_camphora_cf_G061425_NGS2
      Cinm_chekiangense_LWB462
      Cinm_daphnoides_Lsn
      Cinm_dictyoneuron_L885
      Cinm_glanduliferum_Nsn
      Aiou_hammeliana_H14091
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      Cinm_iners_L31089
      Cinm_insularimontanum_Rsn
      Cinm_loureiroi_Lsn
      Cinm_osmophloeum_Dsn
      Cinm_paiei_C1237
      Cinm_pittosporoides_LR2010_11
      Cinm_polderi_cf_B1574
      Cinm_tamala_H12882
      Cinm_verum_L41050
      Cinm_wilsonii_LR2010_06
      Damb_coriacea_Hsn
      Endl_glomerata_M3187
      Laur_nobilis_HBG
      Lica_crassifolia_C8248
      Lind_benzoin_HBG
      Mach_grijsii_HBG
      Nect_psammophila_M3540
      Neol_sericea_HBG
      Ocot_aciphylla_M3210
      Ocot_foetens_Fsn
      Ocot_gabonensis_cf_W654
      Ocot_indecora_M3548
      Ocot_pedalifolia_D9514
      Ocot_porosa_M3375
      Ocot_pulchella_M3154
      Ocot_quixos_N9487
      Ocot_salvadorensis_R1414
      Pers_americana_HBG
      Phoe_sheareri_HBG
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   format missing=? gap=- matchchar=. datatype=nucleotide interleave=yes;
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Aiou_saligna_M3165            GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Anib_firmula_M3356            GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
C_cam_AF272260                ----------------------------------------
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                ----------------------------------------
C_cam_KP092856                ----------------------------------------
C_cam_KP092857                ----------------------------------------
C_cam_KP218517                ----------------------------------------
C_cam_KT248576                ----------------------------------------
C_cam_KU139826                ----------------------------------------
C_cam_KX546414                ----------------------------------------
C_cam_KX546537                ----------------------------------------
C_cam_KX766404                ----------------------------------------
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
C_cam_MF096121                ----------------------------------------
C_cam_MF110040                ----------------------------------------
C_par_KP092858                ----------------------------------------
C_par_KU139871                ----------------------------------------
C_par_KX546421                ----------------------------------------
C_par_MF110054                ----------------------------------------
C_por_d_MF110039              ----------------------------------------
Aiou_alainii_EH11506          GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
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Aiou_amoena_R1072             GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_burmannii_LR2010_10      GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_camphora_cf_G061425_NGS2 ----------------------------------------
Cinm_chekiangense_LWB462      GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_daphnoides_Lsn           ---------ACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_dictyoneuron_L885        --------AACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_glanduliferum_Nsn        --------AACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Aiou_hammeliana_H14091        ---------------------------------AGTCGTA
Cinm_iners_L31089             GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_insularimontanum_Rsn     GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_loureiroi_Lsn            GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_osmophloeum_Dsn          GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_paiei_C1237              GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_pittosporoides_LR2010_11 GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_polderi_cf_B1574         GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_tamala_H12882            GTCCACTGACCCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_verum_L41050             GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Cinm_wilsonii_LR2010_06       --------AACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Damb_coriacea_Hsn             GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Endl_glomerata_M3187          GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Laur_nobilis_HBG              ----------------------------------------
Lica_crassifolia_C8248        GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Lind_benzoin_HBG              GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Mach_grijsii_HBG              ------------------------------------CGTA
Nect_psammophila_M3540        ----------------------------------------
Neol_sericea_HBG              GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_aciphylla_M3210          --------AACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_foetens_Fsn              ---------------------------------------A
Ocot_gabonensis_cf_W654       GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_indecora_M3548           GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_pedalifolia_D9514        GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_porosa_M3375             GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_pulchella_M3154          GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Ocot_quixos_N9487             ----------------------------------------
Ocot_salvadorensis_R1414      GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Pers_americana_HBG            GTCCACTGAACCTTATCATTTAGAGGAAGGAGAAGTCGTA
Phoe_sheareri_HBG             --------AACCTTATCATTTAGAGGAAGGAGAAGTCGTA

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Aiou_costaricensis_G8241      ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Aiou_saligna_M3165            ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Anib_firmula_M3356            ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
C_cam_AF272260                ----------------------------------------
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                ----------------------------------------
C_cam_KP092856                ----------------------------------------
C_cam_KP092857                ----------------------------------------
C_cam_KP218517                ----------------------------------------
C_cam_KT248576                ----------------------------------------
C_cam_KU139826                ----------------------------------------
C_cam_KX546414                ----------------------------------------
C_cam_KX546537                ----------------------------------------
C_cam_KX766404                ----------------------------------------
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
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C_cam_MF110040                ----------------------------------------
C_par_KP092858                ----------------------------------------
C_par_KU139871                ----------------------------------------
C_par_KX546421                ----------------------------------------
C_par_MF110054                ----------------------------------------
C_por_d_MF110039              ----------------------------------------
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Aiou_alainii_EH11506          ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Aiou_amoena_R1072             ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_burmannii_LR2010_10      ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_camphora_cf_G061425_NGS2 ----------------------------------------
Cinm_chekiangense_LWB462      ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_daphnoides_Lsn           ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_dictyoneuron_L885        ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTGTC
Cinm_glanduliferum_Nsn        ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Aiou_hammeliana_H14091        ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_iners_L31089             ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_insularimontanum_Rsn     ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_loureiroi_Lsn            ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_osmophloeum_Dsn          ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_paiei_C1237              ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTGTC
Cinm_pittosporoides_LR2010_11 ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_polderi_cf_B1574         ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_tamala_H12882            ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Cinm_verum_L41050             ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTGCC
Cinm_wilsonii_LR2010_06       ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Damb_coriacea_Hsn             ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Endl_glomerata_M3187          ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Laur_nobilis_HBG              ----------------------------------------
Lica_crassifolia_C8248        ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Lind_benzoin_HBG              ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Mach_grijsii_HBG              ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Nect_psammophila_M3540        ----------------------------------------
Neol_sericea_HBG              ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_aciphylla_M3210          ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_foetens_Fsn              ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_gabonensis_cf_W654       ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_indecora_M3548           ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_pedalifolia_D9514        ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
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Ocot_pulchella_M3154          ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Ocot_quixos_N9487             ----------------------------------------
Ocot_salvadorensis_R1414      ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Pers_americana_HBG            ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--
Phoe_sheareri_HBG             ACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTG--

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Aiou_saligna_M3165            --TCGTCCCTGGAACCA-C--CACCGGCGAACC--AGTCC
Anib_firmula_M3356            --CCGTCTCTGGAACCA-C--CACCGGCGAACC--AGTCC
C_cam_AF272260                -------------ACCA-C--CACCGGCGAACC--AGTCC
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                ----------------------ACCGGCGAACC--AGTCC
C_cam_KP092856                ----------------------------------------
C_cam_KP092857                ----------------------------------------
C_cam_KP218517                -------------ACCA-C--CACCGGCGAACC--AGTCC
C_cam_KT248576                ----------------------------------------
C_cam_KU139826                ----------------------------GAACC--AGTCC
C_cam_KX546414                ---------------------------CGAACC--AGTCC
C_cam_KX546537                ---------------------------CGAACC--AGTCC
C_cam_KX766404                -------------ACCA-C--CACCGGCGAACC--AGTCC
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
C_cam_MF096121                ----------------------------------------
C_cam_MF110040                -------------ACCA-C--CACCGGCGAACC--AGTCC
C_par_KP092858                ----------------------------------------
C_par_KU139871                ----------------------------GAACC--AGTCC
C_par_KX546421                ---------------------------CGAACC--AGTCC
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C_por_d_MF110039               -------------ACCA-C--CACCGGCGAACC--AGTCC
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Aiou_amoena_R1072              --TCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_burmannii_LR2010_10       --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_camphora_cf_G061425_NGS2 -------------ACCA-C--CACCGGCGAACC--AGTCC
Cinm_chekiangense_LWB462       --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_daphnoides_Lsn            --TCGTCCCTAGAACCA-C--CACCGGCGAACCA-AGTCC
Cinm_dictyoneuron_L885         G-TCGCCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_glanduliferum_Nsn         --CCGTCTCTGGAACCA-C--CACCGGCGAACC--AGTCC
Aiou_hammeliana_H14091         --CCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_iners_L31089              --TCGTCCCTAGAACCA-C--CACCGGCGAACC--RGTCC
Cinm_insularimontanum_Rsn      --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_loureiroi_Lsn             --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_osmophloeum_Dsn           --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_paiei_C1237               G-TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_pittosporoides_LR2010_11 --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_polderi_cf_B1574          --TCGTCCCTAGAACCA-C--CACCGGCGAACCAGAGTCC
Cinm_tamala_H12882             --TCGTCCCTAGAACCA-C--CACCGGCGAACC--AGTCC
Cinm_verum_L41050              GTCCGTCCCTAGAACCA-CCTCACCGGCGAACC--AGTCC
Cinm_wilsonii_LR2010_06        --TCGTCCCTAGAACCA-C--CACCGGCGAACCA-AGTCC
Damb_coriacea_Hsn              --CCGTCTCTGGAACCA-C--CACCGGCGAACCACAGTCC
Endl_glomerata_M3187           --CCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTAC
Laur_nobilis_HBG               ---CGTCTCTAGAACCA-C--CACCGGCGAACG--AGTCC
Lica_crassifolia_C8248         --CCGTCTCTAGAACCA-C--CACCGGCGAACC--GGTCC
Lind_benzoin_HBG               --TCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Mach_grijsii_HBG               --TCGTTTCAAGAACCA-C--CACCGGCGAACCACAGTCC
Nect_psammophila_M3540         -------------ACCA-C--CACCGGCGAACC--AGTCC
Neol_sericea_HBG               --TCGTCTCTAGAACCA-C--CACCGGCGAACCAAGGTCC
Ocot_aciphylla_M3210           --CCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Ocot_foetens_Fsn               --CCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Ocot_gabonensis_cf_W654        --CCGTCTCTGGAACCA-C--CACCGGCGAACC--AGTCC
Ocot_indecora_M3548            --CCGTCTCTAGAAGCAAC--CACCGGCGAACC--TGTCC
Ocot_pedalifolia_D9514         --CCGTCTCCGGAACCA-C--CACCGGCGAACC--AGTCC
Ocot_porosa_M3375              --CCGTCTCTAGAAGCAAC--CACCGGCGAACC--AGTCC
Ocot_pulchella_M3154           --CCGTCTCTGGAACCA-C--CACCGGCGAACC--AGTCC
Ocot_quixos_N9487              -------------ACCA-C--CACCGGCGAACC--AGTCC
Ocot_salvadorensis_R1414       --CCGTCTCTAGAACCA-C--CACCGGCGAACC--AGTCC
Pers_americana_HBG             --CCGTTTCCAGAACCA-C--AACCGGCGAACC--AGTCC
Phoe_sheareri_HBG              --CCGTTTCCGGAACCA-C--GACCGGCGAACC--AGTCC

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Aiou_costaricensis_G8241       CCGCGGAAA--CGGCGCCCSCGG--CGCGCGGCCCCC---
Aiou_saligna_M3165             C-GCGGAAA--CGCCGCCCGCGG--CGCGCGGCCCCCC--
Anib_firmula_M3356             CCGCGGAAA--CGACGCTCGCGG--CGCGCGGCCC-----
C_cam_AF272260                 C-GCGAGAA--CGTCGCTCGCGG--CGCGTGGCCC-----
C_cam_JN115020                 ----------------------------------------
C_cam_JX242469                 C-GCAAAAA--CGTCACTCGCGG--CGCGTGGCCC-----
C_cam_KP092856                 ----------------------------------------
C_cam_KP092857                 ----------------------------------------
C_cam_KP218517                 C-GCGACGA--CGCCGCTCGCGG--CGCGCGGCCC-----
C_cam_KT248576                 ----------------------------------------
C_cam_KU139826                 C-GCGACGA--CGCCGCTCGCGG--CGCGCGGCCC-----
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C_cam_MF096120                 ----------------------------------------
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C_par_KP092858                 ----------------------------------------
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C_par_MF110054                C-GCGACGA--CGACGCTCGCGG--CGCGCGGCCC-----
C_por_d_MF110039              C-GCGACGA--CGCCGCTCGCGG--CGCGCGGCCC-----
Aiou_alainii_EH11506          C-GCGGAAA--CGGCGCTCGGGG--CGCGCC---------
Aiou_amoena_R1072             C-GCGGAAA--CGCAGCCCGCGG--CGCGCGGCCCCCC--
Cinm_burmannii_LR2010_10      C-GCGAGAACGCGYCGCTCGCGG--CGCGCGGCCCC----
Cinm_camphora_cf_G061425_NGS2 C-GCGATGA--CGCCGCTCGCGG--CGCGCTGCCC-----
Cinm_chekiangense_LWB462      C-GCGAGAACACGYCGCTCGCGG--CGCGCGGCCC-----
Cinm_daphnoides_Lsn           C-GCGAGAACACGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_dictyoneuron_L885        C-GCGAGAA--CGCCGCTCGCGG--CGCGCGGCCC-----
Cinm_glanduliferum_Nsn        C-GCGAHGA--CGCCGCTCGCGG--CGCGCGGCCC-----
Aiou_hammeliana_H14091        C-GCGGAAA--CGCCGCCCGCGG--CGCGCGGCCCCCCC-
Cinm_iners_L31089             C-GCGAGAA--GGACGCTCGCGG--CGCGCGGCC------
Cinm_insularimontanum_Rsn     C-GCGAGAACACGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_loureiroi_Lsn            C-GCGAGAACACGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_osmophloeum_Dsn          C-GCGAGAACACGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_paiei_C1237              C-GCGAGAA--CGCCGCTCGCGG--CGCGCGGCCC-----
Cinm_pittosporoides_LR2010_11 C-GCGAGAA--CGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_polderi_cf_B1574         C-GCGAGAACACGCCGCCCGCGG--CGCGCGGCCC-----
Cinm_tamala_H12882            C-GCGAGAACGCGTCGCTCGCGG--CGCGCGGCCC-----
Cinm_verum_L41050             C-GCGAGAA--GGACGCTCGCGG--CGCGCGGCCC-----
Cinm_wilsonii_LR2010_06       C-GCGAGAACACGTCGCTCGCGG--CGCGCGGCCC-----
Damb_coriacea_Hsn             CCGCGGAAAA-GGCCGCTCGCGG--CGCGCGGCCC-----
Endl_glomerata_M3187          GAGCGGAAA--CGACGCTCGCGG--CGCGCGGCCC-----
Laur_nobilis_HBG              C-GCGGAAA--CGCCGCTCGCGG--CCCGCGGCCCC----
Lica_crassifolia_C8248        CCGCGGAAA--CCGCGCTCGCGG--CGCGCGGCCC-----
Lind_benzoin_HBG              C-GCGGAAA--CGTCGCTCGCGG--CGTGCGGCCCC----
Mach_grijsii_HBG              C-GCGAGAA--CGCCGCCCGCGG--CGCGCGGCCC-----
Nect_psammophila_M3540        CCGCGGAAA--CGCCGCTCGCGG--CGCGCGGCCCCC---
Neol_sericea_HBG              C-GCAGAAA--CGTCGCTCGCGG--GGCGCGGCCCC----
Ocot_aciphylla_M3210          CCGCGGAAA--CGACGCTCGCGG--CGCGCGGCCC-----
Ocot_foetens_Fsn              CCGCGGAAAA-CGCCGCTCGCGG--CGCGCGGCCC-----
Ocot_gabonensis_cf_W654       CCGCGGAAA--CGCCGCTCGCGG--CGCGAGGCCCCC---
Ocot_indecora_M3548           CCGCGGAAA--CGACGCTCGCGG--CGCGCGGCCC-----
Ocot_pedalifolia_D9514        CCGCGGAAA--CGACGCCCGCGG--CGCGCGGCCCC----
Ocot_porosa_M3375             CCGCGGAAA--CGACGCTCGCGG--CGCGCGGCCC-----
Ocot_pulchella_M3154          CCGCGGAAG--CGCCGCTCGCGG--CGCGCGGCCC-----
Ocot_quixos_N9487             CCGCGGAAAA-CGCCGCCCGCGG--CGCGCGGCCC-----
Ocot_salvadorensis_R1414      CCGCGGAAA--AGCCGCTCGCGG--CGCGCGGCCC-----
Pers_americana_HBG            C-ACGAGAA--CGCCGCCCGCGG--CGCGCGGCCC-----
Phoe_sheareri_HBG             C-GCGAGAACGCGCGGCCCGGGGAGCGCGCGGCCC-----

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Aiou_costaricensis_G8241      -GGGGGAGGA---CCC----GGGGAGGCGCG--TCCCGGC
Aiou_saligna_M3165            --------------------GGGGACGCGCG--TCCCGAC
Anib_firmula_M3356            -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGCC
C_cam_AF272260                -GGGGGACGA---CCT----GGGGATGCGCG--TCCCGAC
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                -GGGGGACGA---CCT----GGGGACGCGCG--TCCCAAC
C_cam_KP092856                -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGGC
C_cam_KP092857                ----GGACTAATGCCC----GGGGACGCGCG--TCCCGTC
C_cam_KP218517                -GGGGGACGA---CCC----GGGGACGCGCG--TCCGGAC
C_cam_KT248576                ---------------C----GGGGACGCGCG--TCCCGAC
C_cam_KU139826                -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGAC
C_cam_KX546414                -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGAC
C_cam_KX546537                -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGAC
C_cam_KX766404                -GGGGGACGA---CCC----GGGGACGCGCG--TCCGGAC
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
C_cam_MF096121                ----------------------------------------
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C_cam_MF110040                -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGAC
C_par_KP092858                -------------------------GCGCG--TCCCGAC
C_par_KU139871                -GGGGGACGA---CCC----GGGGACGCGCT--TCCCGTC
C_par_KX546421                -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGAC
C_par_MF110054                -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGAC
C_por_d_MF110039              -GGGGGACGG---CCC----GGGGACGCGCG--TCCCGAC
Aiou_alainii_EH11506          --------------------GGGGACGCGCG--TCCCGAC
Aiou_amoena_R1072             --------------------GGGGACGCGCG--TCCCGGC
Cinm_burmannii_LR2010_10      -GGGGGACTA-TGCCC----GGGGACGCGCG--TCCCGTC
Cinm_camphora_cf_G061425_NGS2 -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGAC
Cinm_chekiangense_LWB462      -GGGGGACTA-TGCCC----GGGGACGCGCG--TCCCGTC
Cinm_daphnoides_Lsn           GGGGGGACGA---CCCC---GGGGACGCGCG--TCCCGTC
Cinm_dictyoneuron_L885        -GGGGGACGA---CCC----GGGGACGCGCG--TCCGGAC
Cinm_glanduliferum_Nsn        -GGGGGACGA---CCC----GGGGGCGCGCG--TCCCGAC
Aiou_hammeliana_H14091        --------------------GGGGACGCGCG--TCCGGAC
Cinm_iners_L31089             -------------------------CGCGCG--TCCGGAC
Cinm_insularimontanum_Rsn     -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGTC
Cinm_loureiroi_Lsn            -GGGGGACTA-TGCCC----GGGGACGCGCG--TCCCGTC
Cinm_osmophloeum_Dsn          -GGGGGACTA-TGCCC----GGGGACGCGCG--TCCCGTC
Cinm_paiei_C1237              -GGGGGACGA---CCC----GGGGACGCGCG--TCCGGAC
Cinm_pittosporoides_LR2010_11 -------------------GGGGGACGCGCG--TCCCGAC
Cinm_polderi_cf_B1574         -GGGGGACGA---CCCC---GGGGACGCGCG--TCCCGTC
Cinm_tamala_H12882            -GGGGGACTA-TGCCC----GGGGACGCGCG--TCCCGTC
Cinm_verum_L41050             -------------------GTGGGACGTGCG--TCCGGAC
Cinm_wilsonii_LR2010_06       -GGGGGACGA---CCCC---GGGGATGCGCG--TCCCGTC
Damb_coriacea_Hsn             GGGTCGAGGA---CCC----GGGGACGCGCG--TCCCGGC
Endl_glomerata_M3187          -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGGC
Laur_nobilis_HBG              --GGGGACGA---CCC----GGCGGCGCGCG--TCCCGAC
Lica_crassifolia_C8248        -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGGC
Lind_benzoin_HBG              --GGGGATGA---CCC----GGGGGCGCGCG--TCCCGAC
Mach_grijsii_HBG              -GGGGGGCGA---CCCC---GGGGGCGCGCG--TCCCCGC
Nect_psammophila_M3540        -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGTC
Neol_sericea_HBG              ---------------------------CGCG--CCCCGAC
Ocot_aciphylla_M3210          -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGGC
Ocot_foetens_Fsn              -------------------------CGCGCG--TCCCGGC
Ocot_gabonensis_cf_W654       -------------------GGGGGGCGCGCGCGTCCCGGC
Ocot_indecora_M3548           -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGGC
Ocot_pedalifolia_D9514        -GGGGGAGGA---CCC---GGGGGA-GCGCG--TCCCGGC
Ocot_porosa_M3375             -GGGGGAGGA---CCCC---GGGGACGCGCG--TCCCGGC
Ocot_pulchella_M3154          -GGGGGACGA---CCC----GGGGACGCGCG--TCCCGGC
Ocot_quixos_N9487             -GGGGGAGGA---CCC----GGGGACGCGCG--TCCCGGC
Ocot_salvadorensis_R1414      -GGGGTAGGA---CCC----GGGGACGCGCG--TCCCGGC
Pers_americana_HBG            -GGGGGGCGA---CCCC---GGCGGCGCGCG--TCCCCGC
Phoe_sheareri_HBG             -GGGGGGCGA---CCCC---GGGGGCGCGCG--TCCCCGC

[                             22222222222222222222222222222222222222]
[                             00000000011111111112222222222333333333334]
[                             12345678901234567890123456789012345678 90]
Aiou_costaricensis_G8241      GG--GCCCCGAA----CAGAA---CCCTCTGGGCGCGGCG
Aiou_saligna_M3165            GG--GCTCCGAA----CGAAA--CCCCCATGGGCGCGGCG
Anib_firmula_M3356            GA--GCTCCGAA----CAAA----CCCTCTGGGCGCGGCC
C_cam_AF272260                GA--GCTCCAAA----CAG-----CCCTCTAGGCGCGGAG
C_cam_JN115020                ------------------------CCCTCTAGGCGCGGAT
C_cam_JX242469                GA--GCTCCAAA----CAG-----CCCTCTAGGCGCGGAT
C_cam_KP092856                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KP092857                GA--GCTCCGAA----CAACAA--CCCTCTGGGCGCGGCG
C_cam_KP218517                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KT248576                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KU139826                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KX546414                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KX546537                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_KX766404                GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_cam_MF096119                ----------------------------------------
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C_cam_MF096120                 ----------------------------------------
C_cam_MF096121                 ----------------------------------------
C_cam_MF110040                 GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_par_KP092858                 GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_par_KU139871                 GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_par_KX546421                 GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
C_par_MF110054                 GA--GCTCGGAA----CAA-----CCCTCTGGGCGCGGCG
C_por_d_MF110039               GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
Aiou_alainii_EH11506           GA--GCTCCGAA----CAAAA---CCCTCAGGGCGCGGCG
Aiou_amoena_R1072              GA--GCTCCGAA----CAGAA---CCCTCCGGGCGCGGCG
Cinm_burmannii_LR2010_10       GA--GCTCCGAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_camphora_cf_G061425_NGS2 GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
Cinm_chekiangense_LWB462       GA--GCTCCGAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_daphnoides_Lsn            GA--GCTCCAAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_dictyoneuron_L885         GA--GCTCCAAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_glanduliferum_Nsn         GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
Aiou_hammeliana_H14091         GA--GCTCCTAA----AAGAA---CCCTCCGGGCGCGGCG
Cinm_iners_L31089              GA--GCTCCGAACAA-CAAAA---CCCTCTGGGCGCGGCG
Cinm_insularimontanum_Rsn      GA--GCTCCAGACGA-CAA-----CCCTCTGGGCGCGGCG
Cinm_loureiroi_Lsn             GA--GCTCCGAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_osmophloeum_Dsn           GA--GCTCCGAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_paiei_C1237               GA--GCTCCMAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_pittosporoides_LR2010_11 GA--GCTCCAAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_polderi_cf_B1574          GA--GCTGCGAACAA-CAA-----CCCTCTGGGCGCGGAG
Cinm_tamala_H12882             GA--GCTCCAAACAA-CAA-----CCCTCTGGGCGCGGCG
Cinm_verum_L41050              GA--GCTCCGAACAA-CAAAA---CCCTCCGGGCGCGGCG
Cinm_wilsonii_LR2010_06        GA--GCTCCGAACAAACAA-----CCCTCTGGGCGCGGCG
Damb_coriacea_Hsn              GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
Endl_glomerata_M3187           GA--GCTCTGAA----CAA-----CCCTCTGGGCGCGGCG
Laur_nobilis_HBG               GA--GCTCCGAA----CAAA----CCCTCTGGGCGCGGCG
Lica_crassifolia_C8248         GAGAGCTCCGAA----CGAA----CCCTCTGGGCGCGGCG
Lind_benzoin_HBG               GA--GCTCCGAA----CAA-----CCCTTTGGGCGCGGCG
Mach_grijsii_HBG               GA--GCTCTGAA----CAA-----CCCTTTGGGCGCGGCG
Nect_psammophila_M3540         GA--GCTCCGAA----CAAA----CCCTCTGGGCGCGGCG
Neol_sericea_HBG               GA--GCCCCGAA----CAA-----CCCTTTGGGCGCGGCG
Ocot_aciphylla_M3210           GA--GCTCTGAA----CAAA----CCCTCTGGGCGCGGCG
Ocot_foetens_Fsn               GA--GCTCCGAA----CAA-----CCCTCTGGGCGCGGCG
Ocot_gabonensis_cf_W654        GA--GCTCCGAA----CATAA---CCCTCTGGGCGCGGCG
Ocot_indecora_M3548            GA--GCTCTGAA----CAAA----CCCTCTGGGCGCGGCG
Ocot_pedalifolia_D9514         GG--GCCCCGAA----CAGAA---CCCTCTGGGCGCGGCG
Ocot_porosa_M3375              GA--GCTCCGAA----CGAA----CCCTCTGGGCGCGGCG
Ocot_pulchella_M3154           GA--GCTACGAA----CAA-----CCCTCTGGGCGCGGCG
Ocot_quixos_N9487              GA--GCTTCTAA----CACGA---ACCTCTGGGCGCGGCG
Ocot_salvadorensis_R1414       GA--GCTCTGAA----CAA-----CCCTCTGGGCGCGGCG
Pers_americana_HBG             GG--GCTCCGAA---ACAA-----CCCTTTGGGCGCGGCG
Phoe_sheareri_HBG              GA--GCTGCGAACAA-CAA-----CCCTCTGGGCGCGGCG

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Aiou_costaricensis_G8241       AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Aiou_saligna_M3165             AGCGCCAAGGA---ACCGA--AGCGGAAG-GGGCGGCC--
Anib_firmula_M3356             AGCGCCAAGGA---ATCGA--AGCGGAAGAGGGCGGCG--
C_cam_AF272260                 AGTGCCAAGGA---ATCGA--AACAGAAA-GGGCAGCC--
C_cam_JN115020                 AGTGCCAAGGA---ATCGA--AACAGAAA-GGGCAGCC--
C_cam_JX242469                 AGTGCCAAGGA---ATCGA--AACAGAAA-GGGCAGCC--
C_cam_KP092856                 AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
C_cam_KP092857                 AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
C_cam_KP218517                 AGCGCCAAGGAATTATCGA--AGCGGAAG-GGGCGGCC--
C_cam_KT248576                 AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
C_cam_KU139826                 AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
C_cam_KX546414                 AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
C_cam_KX546537                 AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
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C_cam_KX766404                AGCGCCAAGGAATTATCGA--AGCGGAAG-GGGCGGCC--
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
C_cam_MF096121                ----------------------------------------
C_cam_MF110040                AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
C_par_KP092858                AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
C_par_KU139871                AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
C_par_KX546421                AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
C_par_MF110054                AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
C_por_d_MF110039              AGCGCCAAGGAATTATCGA--AGCGGAGG-GGGCGGCC--
Aiou_alainii_EH11506          AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Aiou_amoena_R1072             AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
Cinm_burmannii_LR2010_10      AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_camphora_cf_G061425_NGS2 AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
Cinm_chekiangense_LWB462      AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_daphnoides_Lsn           AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_dictyoneuron_L885        AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
Cinm_glanduliferum_Nsn        AGCGCCAAGGA---ATCGA--AGCGGAAG-GGGCGGCC--
Aiou_hammeliana_H14091        AGCGCCAAGGA---ATCGA--AGCGGAGA-GGGCGGCCGC
Cinm_iners_L31089             AGCGCCAAGGA---ATAGA--AGCGGAAA-GGGCGGCC--
Cinm_insularimontanum_Rsn     AGCGCCAAGGAAT-ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_loureiroi_Lsn            AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_osmophloeum_Dsn          AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_paiei_C1237              AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_pittosporoides_LR2010_11 AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_polderi_cf_B1574         AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_tamala_H12882            AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_verum_L41050             AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Cinm_wilsonii_LR2010_06       AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Damb_coriacea_Hsn             AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Endl_glomerata_M3187          AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Laur_nobilis_HBG              AGCGCCAAGGA---ATAGA--AGCGGAAG-GGGCGGAG--
Lica_crassifolia_C8248        AGCGCCAAGGA---ATCGA--AGCGGAAGAGGGCGGCC--
Lind_benzoin_HBG              AGCGCCAAGGA---ATAGA-AAGCGGAAA-GGGCGGCC--
Mach_grijsii_HBG              AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Nect_psammophila_M3540        AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Neol_sericea_HBG              AGCGCCAAGGA---ATAGA--AGCGGAAA-GGGCGGCC--
Ocot_aciphylla_M3210          AGCGCCAAGGA---ATCGA--AGCGGAAAAGGGCGGCC--
Ocot_foetens_Fsn              AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Ocot_gabonensis_cf_W654       AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Ocot_indecora_M3548           AGCGCCAAGGA---ATCGA--AGCGGAAAAGGGCGGCC--
Ocot_pedalifolia_D9514        AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Ocot_porosa_M3375             AGCGCCAAGGA---ATCGA--AGCGGAAAAGGGCGGCC--
Ocot_pulchella_M3154          AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Ocot_quixos_N9487             AGCGCCAAGGA---ATCGA--AGCGTGGAGGGGCGGCC--
Ocot_salvadorensis_R1414      AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--
Pers_americana_HBG            AGCGCCAAGGA---ATCGAGAAGCGGAAA-GGGCGGCC--
Phoe_sheareri_HBG             AGCGCCAAGGA---ATCGA--AGCGGAAA-GGGCGGCC--

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[                             8888888889999999999000000000011111111112]
[                             1234567890123456789012345678901234567890]
Aiou_costaricensis_G8241      ---GCCCC-GCCCGGCGCGCGC--GCG------CCCCGAG
Aiou_saligna_M3165            ---GGCCC-GCCGGGTGC----------------------
Anib_firmula_M3356            ---GCCCC-GCCCGGCGCGGGC--GCG------CCCCGAA
C_cam_AF272260                ---GCCTC-GCCCTGTGCTAGC--ATG------CCCCGGC
C_cam_JN115020                ---GCCTC-GCCCTGTGCGAGC--ACG------CCCCGGC
C_cam_JX242469                ---GCCTC-GCCCAGTGCGAGC--ACG------CCCCGGC
C_cam_KP092856                ---GCCCG-GCCCGGTGC----------------------
C_cam_KP092857                ---GCCTC-GCCCGGCGCGAGC--GCGCG----CCCCGGC
C_cam_KP218517                ---GCCCG-GCCCGGTGC----------------------
C_cam_KT248576                ---GCCCG-GCCCGGTGC----------------------
C_cam_KU139826                ---GCCCG-GCCCGGTGC----------------------
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C_cam_KX546414                ---GCCCG-GCCCGGTGC----------------------
C_cam_KX546537                ---GCCCG-GCCCGGTGC----------------------
C_cam_KX766404                ---GCCCG-GCCCGGTGC----------------------
C_cam_MF096119                ----------------------------------------
C_cam_MF096120                ----------------------------------------
C_cam_MF096121                ----------------------------------------
C_cam_MF110040                ---GCCCG-GCCCGGTGC----------------------
C_par_KP092858                ---GCCCC-GCCCGGTGC----------------------
C_par_KU139871                ---GCCCC-GCCCGGTGC----------------------
C_par_KX546421                ---GCCCC-GCCCGGTGC----------------------
C_par_MF110054                ---GCCCC-GCCCGGTGC----------------------
C_por_d_MF110039              ---GCCCG-GCCCGGTGC----------------------
Aiou_alainii_EH11506          ---GCCTC-GCCGGGCGC----------------------
Aiou_amoena_R1072             ---GCCCC-GCCGGGTGC----------------------
Cinm_burmannii_LR2010_10      ---GCCTC-GCCCGGCGCGAGCGCGCG------CCCCGGC
Cinm_camphora_cf_G061425_NGS2 ---GCCCC-GCCCGGTGC----------------------
Cinm_chekiangense_LWB462      ---GCCTC-GCCCGGCGCGAGCGCACG------CCCCGGC
Cinm_daphnoides_Lsn           ---GCCTC-GCCCGGCGCGA--------------------
Cinm_dictyoneuron_L885        ---GCCTCCACCCGGCGCGAGCGCACG------CCCCGGC
Cinm_glanduliferum_Nsn        ---GCCCC-GCCCGGTGC----------------------
Aiou_hammeliana_H14091        CCMGCCCC-GCCGGGCGC----------------------
Cinm_iners_L31089             ---GCCTCCACCCGGCGAGAGCGCACG------CCCCGGC
Cinm_insularimontanum_Rsn     ---GCCTC-GCCCGGCGCGAGCGCGCG------CCCCGGC
Cinm_loureiroi_Lsn            ---GCCTC-GCCCGGCGCGAGCGCACG------CCCCGGC
Cinm_osmophloeum_Dsn          ---GCCTC-GCCCGGCGCGAGCGCACG------CCCCGGC
Cinm_paiei_C1237              ---GCCTCCACCCGGCGCGAGCGCACG------CCCCGGC
Cinm_pittosporoides_LR2010_11 ---GCCTC-ACCCGGCGCGAGCGCACG------CCCCGGC
Cinm_polderi_cf_B1574         ---GCCTC-GCCCGGCGCGAGCGCGCGAG----CCCCGGC
Cinm_tamala_H12882            ---GCCTC-GCCCGGCGCGATAGCGCG------CCCCGGC
Cinm_verum_L41050             ---GCCTCCGCCCGGCGCGGGCGCACGCCCCGGCCCCGGC
Cinm_wilsonii_LR2010_06       ---GCCTC-GCCCGGCGCGAGCGCGCG------CCCCGGC
Damb_coriacea_Hsn             ---GCCTC-GCCCGGCGCGGGC--ACG------CCCCGAA
Endl_glomerata_M3187          ---GCCCC-GCCCGGTGCGGGC--ACG------CGCCGAA
Laur_nobilis_HBG              ---GCCTC-GCACGGAGC----------------------
Lica_crassifolia_C8248        ---GCCCC-GCCCGGTGCGGGC--GCG------CCCCGAG
Lind_benzoin_HBG              ---GCCTC-ACCCGGTGCGAGC--GCG------CCCCTGC
Mach_grijsii_HBG              ---GCCCC-ACCGGGCGCGAGC--GCA------CCCCGGC
Nect_psammophila_M3540        ---GCCCC-GCCCGGTGCGGGC--ACG------CGCCGAA
Neol_sericea_HBG              ---GCCCC-ACCCGGCGCGAGC--GCG------CCCCGGC
Ocot_aciphylla_M3210          ---GCCTC-GCCCGGTGCGGGC--GCG------CCCCGAA
Ocot_foetens_Fsn              ---GCCTC-GCCCGGCGCGGGC--GCG------CCCCGAA
Ocot_gabonensis_cf_W654       ---GCCCC-GCCCGGTGCGGGC--GCG------CCCCGAG
Ocot_indecora_M3548           ---GCCCC-GCCCGGCGCGGGC--GCG------CCCCGGA
Ocot_pedalifolia_D9514        ---GCCCC-GCCCGGCGC----------------------
Ocot_porosa_M3375             ---GCCTC-GCCCGGTGCGGGC--GCG------CCCCGAG
Ocot_pulchella_M3154          ---GCCCC-GCCCGGTGCGGGC--ACG------CGCCGAA
Ocot_quixos_N9487             ---GCCCC-GCCCGGCGCGGGC--GCG------CCCCGAG
Ocot_salvadorensis_R1414      ---GCCTC-GCCCGGTGCGGGC--ACG------CCCCGAA
Pers_americana_HBG            ---GCCCC-GCCCGGCGCGGGC--GCA------CCCCGGC
Phoe_sheareri_HBG             ---GCCCC-GCCCGGCGC----------------------

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Aiou_costaricensis_G8241      A-GGGGA--CGCGGCGCCGCGGCGGGGGGATC-CGCCGCC
Aiou_saligna_M3165            -------------------------GGGGA---CGCCGCC
Anib_firmula_M3356            A-GGGGA--CGCGGCGCCGCGGC--GGGGACC-CGCCTCC
C_cam_AF272260                C-GGGGA--TGCGGCATTGCGGC--GGGGATC-CGCCGCC
C_cam_JN115020                T-GGGGA--TGCGGCATTGCGGT--GGGGATC-CGCCGCC
C_cam_JX242469                T-AGGGA--TGCGGCATTGCGGC--CGGGATC-CGCCGCC
C_cam_KP092856                --------------------GGC--GGGGACC-GGCCGCC
C_cam_KP092857                C-GGGGACGCGCGGCGCCGCGGT--GGGGATC-CGCCGCC
C_cam_KP218517                --------------------GGC--GGGGACC-GGCCGCC
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C_cam_KT248576                 --------------------GGC--GGGGACC-GGCCGCC
C_cam_KU139826                 --------------------GGC--GGGGACC-GGCCGCC
C_cam_KX546414                 --------------------GGC--GGGGACC-GGCCGCC
C_cam_KX546537                 --------------------GGC--GGGGACC-GGCCGCC
C_cam_KX766404                 --------------------GGC--GGGGACC-GGCCGCC
C_cam_MF096119                 ----------------------------------------
C_cam_MF096120                 ----------------------------------------
C_cam_MF096121                 ----------------------------------------
C_cam_MF110040                 --------------------GGC--GGGGACC-GGCCGCC
C_par_KP092858                 --------------------GGC--GGGGACC-GGCCGCC
C_par_KU139871                 --------------------GGC--GGGGACC-GGCCGCC
C_par_KX546421                 --------------------GGC--GGGGACC-GGCCGCC
C_par_MF110054                 --------------------GGC--GGGGACC-GGCCGCC
C_por_d_MF110039               --------------------GGC--GGGGACC-GGCCGCC
Aiou_alainii_EH11506           -------------------------GGGGACG-CGCCGCC
Aiou_amoena_R1072              --GGGGA--CGCCGCACCGCGGC--GGGGACC-CGCCGCC
Cinm_burmannii_LR2010_10       C-GGGGACGCGCGGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_camphora_cf_G061425_NGS2  --------------------GGC--GGGGACC-GGCCGCC
Cinm_chekiangense_LWB462       C-GGGGACGCGCGGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_daphnoides_Lsn            -------------GCGCCGCGGT--GGGGACC-CGCCGCC
Cinm_dictyoneuron_L885         C-GGGGA--TGCAGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_glanduliferum_Nsn         --------------------GGC--GGGGACC-GGCCGCC
Aiou_hammeliana_H14091         -------------------------GGGGATC-CGCCGCC
Cinm_iners_L31089              C-GGGGA--TGCAGCGCCGCGGTGGGGGGATC-CGCCGCC
Cinm_insularimontanum_Rsn      C-GGGGA--CGCGGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_loureiroi_Lsn             C-GGGGACGCGCGGCGCCGCGGC--GGGGATC-CGCCGCC
Cinm_osmophloeum_Dsn           C-GGGGACGCGCGGCGCCGCGGC--GGGGATC-CGCCGCC
Cinm_paiei_C1237               C-GGGGA--TGCAGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_pittosporoides_LR2010_11  C-GGGGA--TGCAGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_polderi_cf_B1574          C-GGGGACGCGCGGCGCCGCGGC--GGGTTTC-CGCCGCC
Cinm_tamala_H12882             A-GGGGACGCGCGGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_verum_L41050              C-GGGGA--TGCAGCGCCGCGGT--GGGGATC-CGCCGCC
Cinm_wilsonii_LR2010_06        C-GGGGACGCGCGGCGCCGCGGT--GGGGACC-CGCCGCC
Damb_coriacea_Hsn              A-GGGGA--TGCGGCGCCGCGGC-GGGGGATC-CGCCGCC
Endl_glomerata_M3187           AGGGGGA--TGCGGCACCGCGGT-GGGGGATC-CGCCGCC
Laur_nobilis_HBG               ----------------------------GATC-CGCCGCC
Lica_crassifolia_C8248         A-GGGGA--CGCGGCACCGCGGC--GGGGGCC-CGCCGCC
Lind_benzoin_HBG               C-GGGGA--CGCATCATCGCCGT--GGGGATC-CGCCGCC
Mach_grijsii_HBG               C-GGGGA--AGCGGCACCGCCGT--GGGGATC-GGCCGCC
Nect_psammophila_M3540         A-GGCGA--CGCGGCACCGCGGT-GGGGGATC-CGCCGCC
Neol_sericea_HBG               C-GGGGA--CGC-GCACCGCCGT--GGGGATC-CGCCGCC
Ocot_aciphylla_M3210           A-GGGGA--CGCGGCATCGCGGM--GGGGAAC-CGCCGCC
Ocot_foetens_Fsn               A-GGGGA--CGCGGCACCGCGGC--GGGGATC-CGCCGCC
Ocot_gabonensis_cf_W654        A-GGGGACGCGCCGCACCGCGGC--GGGGATC-CGCCGCC
Ocot_indecora_M3548            A-GGGGA--TGCGGCGCCGCGGC--GGGGCCC-CGCCGCC
Ocot_pedalifolia_D9514         -------------------------GGGGATC-CGCCGCC
Ocot_porosa_M3375              A-GGGCA--TGCGGCACCGCGGC--GGGGGCC-CGCCGCC
Ocot_pulchella_M3154           A-GGGGA--TGCGGCACCGCGGC-CGGGGATC-CGCCGCC
Ocot_quixos_N9487              A-GGGGA--CGCGGCGCCGCGGC--GGGGAGC-CGCCGCC
Ocot_salvadorensis_R1414       A-GGGGA--TGCGGCACCGCGGT-GGGGGATC-CGCCGCC
Pers_americana_HBG             C-GGGGACGCGC-KCGCCGACGC--GGGGATC-CGCCGCC
Phoe_sheareri_HBG              -------------------------GGGGATC-CGCCGCC

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[                              1234567890123456789012345678901234567890]
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Aiou_saligna_M3165             CGTCTGTT-GAA-----TCTCT--TAGACGACTCTCGGCA
Anib_firmula_M3356             CGTCTGT--GAAAAATATCTCT--AAGACGACTCTCGGCA
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C_cam_MF096120                ----------------------------------------
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Cinm_burmannii_LR2010_10      CGCCTGT--GAA-----TCTTT--TAGACGACTCTCGGCA
Cinm_camphora_cf_G061425_NGS2 CGCCYGT--GAA-----YCTCT--TAGACGACTCTCGGCA
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Cinm_paiei_C1237              CGTCTGT--GAA-----TCTCY--CAGACGACTCTCGGCA
Cinm_pittosporoides_LR2010_11 CGTCTGT--GAA-----TCTTT--TAGACGACTCTCGGCA
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Ocot_indecora_M3548           CGTCTGT--GGA-----TCTCT--TAGACGACTCTCGGCA
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C_cam_MF096119                 --------------------------------GCCACCCA
C_cam_MF096120                 --------------------------------GCCACCCA
C_cam_MF096121                 --------------------------------GCCACCCA
C_cam_MF110040                 T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
C_par_KP092858                 T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
C_par_KU139871                 T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
C_par_KX546421                 T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
C_par_MF110054                 T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
C_por_d_MF110039               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCR
Aiou_alainii_EH11506           T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Aiou_amoena_R1072              T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_burmannii_LR2010_10       C-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_camphora_cf_G061425_NGS2  T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_chekiangense_LWB462       T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_daphnoides_Lsn            T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_dictyoneuron_L885         T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_glanduliferum_Nsn         T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Aiou_hammeliana_H14091         T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_iners_L31089              T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_insularimontanum_Rsn      T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_loureiroi_Lsn             T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_osmophloeum_Dsn           T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_paiei_C1237               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_pittosporoides_LR2010_11  T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_polderi_cf_B1574          C-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_tamala_H12882             T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_verum_L41050              T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Cinm_wilsonii_LR2010_06        T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Damb_coriacea_Hsn              T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Endl_glomerata_M3187           T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCG
Laur_nobilis_HBG               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Lica_crassifolia_C8248         T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCG
Lind_benzoin_HBG               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Mach_grijsii_HBG               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Nect_psammophila_M3540         T-CGGCCGAGGGCACGCCTGCCTGGGGGTCACGCCACCCC
Neol_sericea_HBG               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_aciphylla_M3210           T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_foetens_Fsn               T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_gabonensis_cf_W654        T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_indecora_M3548            T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_pedalifolia_D9514         T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_porosa_M3375              C-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_pulchella_M3154           T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Ocot_quixos_N9487              C-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCG
Ocot_salvadorensis_R1414       T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Pers_americana_HBG             T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
Phoe_sheareri_HBG              T-CGGCCGAGGGCACGCCTGCCTGGGCGTCACGCCACCCA
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Aiou_costaricensis_G8241       TCGCCCCC--CCCGCCCCGC-GGCAT--TCCCATG-CCCC
Aiou_saligna_M3165             TCGCGCC------CCCCATC-GGCAT--TCCCATG-CCCC
Anib_firmula_M3356             TCGCRCC-------CCCCGC-GGCAT--TCCCATG-CCCC
C_cam_AF272260                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_JN115020                 CCCCCCCCCCCAAACCCCGC-GGCAA--TCCCATG-CCCC
C_cam_JX242469                 TCGCCCCCCCTGACCCCCGC-GGCAT--TCCCATG-CCCC
C_cam_KP092856                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_KP092857                 TCGCCCC-------CCGCGC-GGCAT--TCCCATG-CCCC
C_cam_KP218517                 TCGCCCC--------CACCC---------CCCACG-CCCG
C_cam_KT248576                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_KU139826                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_KX546414                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_KX546537                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_cam_KX766404                 TCGCCCC--------CACCC---------CCCACG-CCCG
C_cam_MF096119                 TCGCCCCTCCTGACCCCCGC-GGCAT--TCCCATG-CCCC
C_cam_MF096120                 TCGCCCCTCCTGACCCCCGC-GGCAT--TCCCATG-CCCC
C_cam_MF096121                 TCGCCCCTCCTGACCCCCGC-GGCAT--TCCCATG-CCCC
C_cam_MF110040                 TCGCCCC--------CGCCC---------CCCACG-CCCG
C_par_KP092858                 TCGCCCCC----ACCCCCGC-GGCAT--TCCCATG-CCCG
C_par_KU139871                 TCGCCCCC----ACCCCCGC-GGCAT--TCCCATG-CCCG
C_par_KX546421                 TCGCCCCC----ACCCCCGC-GGCAT--TCCCATG-CCCG
C_par_MF110054                 TCGCCCCC----GCCCCCGC-GGCAT--TCCCATG-CCCG
C_por_d_MF110039               TCGCCCC--------CGCCC---------CCCACG-CCCG
Aiou_alainii_EH11506           TCGCGCC-------CCCCG--GGCAT--TCCCTTG-CCCC
Aiou_amoena_R1072              TCGCGCC--------CCCTCGGGCAT--TCCCATG-CCCC
Cinm_burmannii_LR2010_10       TCGCCCC-------CCGCGC-GGCAT--TCCCATG-CCCC
Cinm_camphora_cf_G061425_NGS2 TCGCCCCC----ACCCCCGC-GGCAT--TCCCATG-CCCG
Cinm_chekiangense_LWB462       TCGCCCC------CCCGCGC-GGCAT--TCCCATG-CCCC
Cinm_daphnoides_Lsn            TCGCCCC--------CCCGC-GGCAT--TCCCATG-CCCC
Cinm_dictyoneuron_L885         TCGCCCC---------CCCC-GGCAT--TCACATG-CCCC
Cinm_glanduliferum_Nsn         TCGCCCC---CCGCSCCCGC-GGCAT--TCCCATG-CCCG
Aiou_hammeliana_H14091         TCGCGCC-------CCCCTC-GGCAT--TCCGGTG-CCCC
Cinm_iners_L31089              TCGCCCC----CCCTCCCGC-GGCAT--TCACATG-CCCC
Cinm_insularimontanum_Rsn      TCGCCCC---CCCCTCCCGC-GGCAT--TCCCATG-CCCG
Cinm_loureiroi_Lsn             TCGCCCC-----CCCCGCGC-GGCAT--TCCCATG-CCCC
Cinm_osmophloeum_Dsn           TCGCCCC------CCCGCGC-GGCAT--TCCCATG-CCCC
Cinm_paiei_C1237               TCGCCCC-------CCCCGC-GGCAT--TCACATG-CCCC
Cinm_pittosporoides_LR2010_11 TCGCCCC---------CCGC-GGCAT--TCCATTG-CCCC
Cinm_polderi_cf_B1574          TCGCACC------CCCCCGC-GGCAT--TCCCATG-CCCC
Cinm_tamala_H12882             TCGCCCC-------CCGCGC-GGCAT--TCCCATG-CCCC
Cinm_verum_L41050              TCGCCCC--------CCCGC-GGCAT--TCACATG-CCCC
Cinm_wilsonii_LR2010_06        TCGCCCC------CCCCCGC-GGCAT--TCCCATG-CCCC
Damb_coriacea_Hsn              TCGCCCC-------CCGCGC-GGCAT--TCCCATG-CACG
Endl_glomerata_M3187           TCGCCCC-----CCGCCCGC-GGCAT--TCCCATG-CCCG
Laur_nobilis_HBG               TCGCCCC----CCCCCCCGC-GGCAT--TCCCATG-CCCG
Lica_crassifolia_C8248         TCGCCCC-------CCCCGC-GGCAT--TCCCATG-CCCC
Lind_benzoin_HBG               TCGCCCCC--CCCCTCCCGC-GGCAT--TCCCATG-CCCG
Mach_grijsii_HBG               TCGCCAC-----CCCCCCGC-GGCAT--TCCCATG-CCCC
Nect_psammophila_M3540         TCGCCCC-------CCCCGC-GGCAT--TCCCATG-CCCC
Neol_sericea_HBG               TCGCCCC-------CGCCGC-GGCGT--TC---------G
Ocot_aciphylla_M3210           TCGCCCC-------CCCCGC-GGCAT--TCCCATG-CCCC
Ocot_foetens_Fsn               TCGCCCC-------CCCCGG-GGAA---TCCCATG-CCCC
Ocot_gabonensis_cf_W654        TCGCCCC------CCCCCGG-GGCAT--TCCCATG-CCCC
Ocot_indecora_M3548            TCGCCCC-------CCTCGC-GGCAT--TCCCATG-CCCC
Ocot_pedalifolia_D9514         TCGCCCC---CCCGCCCCGC-GGCAT--TCCCATG-CCCC
Ocot_porosa_M3375              TCGCCCC-------CCTCGC-GGCATATTCCCATG-CCCC
Ocot_pulchella_M3154           TCGCCCC--------CCCGC-GGCAT--TCCCATG-CCCC
Ocot_quixos_N9487              TCGCCCC-------CCGCTC-GGCAT--TCCCATG-CCCC
Ocot_salvadorensis_R1414       TCGCCCC-------CCCCGC-GGCAT--TCCCATG-CCCC
Pers_americana_HBG             TCGCCAC----CCCCCCCGC-GGCAT--TCCCATG-CCGC
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Phoe_sheareri_HBG             TCGCCCC------CCGCCGC-GGCAT--TCCCATG-CCCC

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Aiou_costaricensis_G8241      GG--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Aiou_saligna_M3165            GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Anib_firmula_M3356            GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
C_cam_AF272260                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_JN115020                GC--CGGGG-AGCGGAGAATGCTCGTCCGTGCCCGAG--T
C_cam_JX242469                AC--TGGGG-AGCGGAGAATGGTCATTCGTGCCCAAG--T
C_cam_KP092856                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KP092857                GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
C_cam_KP218517                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KT248576                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KU139826                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KX546414                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KX546537                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_KX766404                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_cam_MF096119                GC--TGGGG-AGCGGAGAATGGTCATTCGTACCCAAG--T
C_cam_MF096120                GC--TGGGG-AGCGGAGAATGGTCATTCGTACCCAAG--T
C_cam_MF096121                GC--TGGGG-AGCGGAGAATGGTCATTCGTACCCAAG--T
C_cam_MF110040                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_par_KP092858                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_par_KU139871                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_par_KX546421                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_par_MF110054                GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
C_por_d_MF110039              GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
Aiou_alainii_EH11506          GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Aiou_amoena_R1072             GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_burmannii_LR2010_10      GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_camphora_cf_G061425_NGS2 GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
Cinm_chekiangense_LWB462      GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_daphnoides_Lsn           GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_dictyoneuron_L885        GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_glanduliferum_Nsn        GGG-CGGGG-AGCGGAGAATGGCCGTCCGTGCCCGAG--C
Aiou_hammeliana_H14091        GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_iners_L31089             GCGTCGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_insularimontanum_Rsn     GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGGTTT
Cinm_loureiroi_Lsn            GY--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_osmophloeum_Dsn          GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_paiei_C1237              GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_pittosporoides_LR2010_11 GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_polderi_cf_B1574         GC--CGGGG-AGCGGAGATTGGCCGTCCGTGCCCGGG--T
Cinm_tamala_H12882            GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Cinm_verum_L41050             GCGCCGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Cinm_wilsonii_LR2010_06       GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGGG--T
Damb_coriacea_Hsn             GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Endl_glomerata_M3187          GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--G
Laur_nobilis_HBG              GC--GGGGG-AGCGGAGACTGGCCGCCCGTGCCCGAG--T
Lica_crassifolia_C8248        GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAT--C
Lind_benzoin_HBG              GC--CGGGGGAGCGGAGACTGGCCGTCCGTGCCCGAG--T
Mach_grijsii_HBG              GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Nect_psammophila_M3540        GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Neol_sericea_HBG              GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--T
Ocot_aciphylla_M3210          GT--CGGGG-AGCGGATACTGGCCGTCCGTGCCCGAG--C
Ocot_foetens_Fsn              GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Ocot_gabonensis_cf_W654       GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Ocot_indecora_M3548           GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Ocot_pedalifolia_D9514        GG--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Ocot_porosa_M3375             GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Ocot_pulchella_M3154          GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--G
Ocot_quixos_N9487             GT--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
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Ocot_salvadorensis_R1414      GC--CGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C
Pers_americana_HBG            GC--CGGGGGAGCGGAGACTGGCCGTCCGTGCCCGAG--C
Phoe_sheareri_HBG             GC--GGGGG-AGCGGAGACTGGCCGTCCGTGCCCGAG--C

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Aiou_costaricensis_G8241      CATCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Aiou_saligna_M3165            CCTCGGCGCGCGGTCGGCCGAAAAAGGAGGACACCGTGCG
Anib_firmula_M3356            CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
C_cam_AF272260                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_cam_JN115020                CCTCAG-GCACGGTCGGCAAAATA-GGAGGACACCGTGCG
C_cam_JX242469                CCTTGG-GCGCGTTCAGCAGAAAA-GGAGAACACCGTGCG
C_cam_KP092856                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
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C_cam_KP218517                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_cam_KT248576                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
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C_cam_KX546414                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_cam_KX546537                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_cam_KX766404                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_cam_MF096119                CCTCAG-GCGCGTTTAGCAGAAAA-GGAGAACACCGTGCG
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C_cam_MF096121                CCTCAG-GCGCGTTTAGCAGAAAA-GGAGAACACCGTGCG
C_cam_MF110040                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
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C_par_MF110054                CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
C_por_d_MF110039              CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
Aiou_alainii_EH11506          CCTCGGCGCGCGGTCGGCCGAAAAAGGAGGACACCGTGCG
Aiou_amoena_R1072             CCTCGGCGCGCGGTCGGCCGAAAAAGGAGGACACCGTGCG
Cinm_burmannii_LR2010_10      GATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_camphora_cf_G061425_NGS2 CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
Cinm_chekiangense_LWB462      GATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCT
Cinm_daphnoides_Lsn           GACCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_dictyoneuron_L885        CATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_glanduliferum_Nsn        CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
Aiou_hammeliana_H14091        CCTCGGCGCGCGGTCGGCAGAAAAAGGAGGACACCGTGCG
Cinm_iners_L31089             CATCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Cinm_insularimontanum_Rsn     TATCGGCGCGCGGTCGGCAGAAAA-TGAGGACACCGTTCG
Cinm_loureiroi_Lsn            GATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_osmophloeum_Dsn          GATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_paiei_C1237              CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_pittosporoides_LR2010_11 CATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_polderi_cf_B1574         GACCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_tamala_H12882            GATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_verum_L41050             CATCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Cinm_wilsonii_LR2010_06       GACCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Damb_coriacea_Hsn             CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Endl_glomerata_M3187          GATCGGCGCGCGGTCGGCAGAAAA-GGAAGGCACCGTGCG
Laur_nobilis_HBG              CCTCGGCGCGCGGTCGGCTGAAAA-GGAGGACACCGTGCG
Lica_crassifolia_C8248        CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Lind_benzoin_HBG              CCTCGGCGCGCGGTCGGCAGAAAAAGGAGGACACCGTGCG
Mach_grijsii_HBG              CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGTGCG
Nect_psammophila_M3540        CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Neol_sericea_HBG              CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGACACCGCGCG
Ocot_aciphylla_M3210          CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Ocot_foetens_Fsn              CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Ocot_gabonensis_cf_W654       CCTCGGCGCGCGGTCGGCGGAAAA-GGAGGGCACCGTGCG
Ocot_indecora_M3548           CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Ocot_pedalifolia_D9514        CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Ocot_porosa_M3375             CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
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Ocot_pulchella_M3154          GATCGGCGCGCGGTCGGCGGAAAA-GGAAGGCACCGTGCG
Ocot_quixos_N9487             CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Ocot_salvadorensis_R1414      CCTCGGCGCGCGGTCGGCAGAAAA-GGAGGGCACCGTGCG
Pers_americana_HBG            CCTCGGCGCGCGGTCGGCGGAAAAAGGAGGACACCGTGCG
Phoe_sheareri_HBG             CCTCGGCGCGCGGTCGGCAGAAAKAGGAGGACACCGTGCG

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Aiou_costaricensis_G8241      GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACCCGT
Aiou_saligna_M3165            GCGCGACGCGGCGTGT-GGGGGT--TGAGAGGCGAGCAGT
Anib_firmula_M3356            GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAGCCGT
C_cam_AF272260                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_JN115020                GCACAACACGGCATGT-GGGGGA--TGAGAGGCGATTTGT
C_cam_JX242469                ACACGACACGGCATGT-GGGGGT--TGAGAGGCGATTTGT
C_cam_KP092856                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KP092857                GCGCGACACGGCGTGT-GGGGGTTGTGAGAGGCGACCCGT
C_cam_KP218517                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KT248576                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KU139826                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KX546414                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KX546537                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_KX766404                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_cam_MF096119                ACACGACACGGCATGT-GGGGGT--TGAGAGGCGATTTGT
C_cam_MF096120                ACACGACACGGCATGT-GGGGGT--TGAGAGGCGATTTGT
C_cam_MF096121                ACACGACACGGCATGT-GGGGGT--TGAGAGGCGATTTGT
C_cam_MF110040                GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_par_KP092858                GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_par_KU139871                GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_par_KX546421                GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_par_MF110054                GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
C_por_d_MF110039              GCGCGGCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Aiou_alainii_EH11506          GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Aiou_amoena_R1072             GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_burmannii_LR2010_10      GCGCGACACGGCGTGT-GGGGGTTGTGAGAGGCGACCCGT
Cinm_camphora_cf_G061425_NGS2 GCGCGRCACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Cinm_chekiangense_LWB462      GCGCGACACGGCGTGT-GGGGGTTGTGAGAGGCGACTCGT
Cinm_daphnoides_Lsn           GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_dictyoneuron_L885        GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_glanduliferum_Nsn        GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Aiou_hammeliana_H14091        GCGCGACACGGCGTGT-GGGGGC--TGAGAGGCGACCCGT
Cinm_iners_L31089             GCGCGACGCGGCGTGT-GGGGAA--TGAGAGGCGACTCGT
Cinm_insularimontanum_Rsn     GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACCCGT
Cinm_loureiroi_Lsn            GCGCGACACGGCGTGT-GGGGGTTGTGAGAGGCGACTCGT
Cinm_osmophloeum_Dsn          GCGCGACACGGCGTGT-GGGGGTCGTGAGAGGCGACTCGT
Cinm_paiei_C1237              GCGCGGCGCGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_pittosporoides_LR2010_11 GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_polderi_cf_B1574         GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Cinm_tamala_H12882            GCGCGACACGGCGTGT-GGGGGTTGTGAGAGGCGACCCGT
Cinm_verum_L41050             GCGCGACGCGGCGTGT-GGGGAA--TGAGAGGCGGCTCGT
Cinm_wilsonii_LR2010_06       GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACTMGT
Damb_coriacea_Hsn             GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Endl_glomerata_M3187          GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Laur_nobilis_HBG              GCGCGACACGGCGTGT-GGGGGT-CTGAGAGGCGATCCGT
Lica_crassifolia_C8248        GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAGCCGT
Lind_benzoin_HBG              GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATTCGT
Mach_grijsii_HBG              GCGAGACACGGCGTGT-GGGGGT--TGAGAGGCGACTCGT
Nect_psammophila_M3540        GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Neol_sericea_HBG              GCGCGGCGCGGCCTTTGGGGGT--TGAAGGGCGATCCGT
Ocot_aciphylla_M3210          GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAGCCGT
Ocot_foetens_Fsn              GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Ocot_gabonensis_cf_W654       GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Ocot_indecora_M3548           GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAGCCGT
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Ocot_pedalifolia_D9514        GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGACCCGT
Ocot_porosa_M3375             GCGCGACACGGCGTGT-GGGGGT--TGAGA----------
Ocot_pulchella_M3154          GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATCCGT
Ocot_quixos_N9487             GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAGCAGT
Ocot_salvadorensis_R1414      GCGCGACACGACGTGT-GGGGGT--TGAGAGGCGACTCGT
Pers_americana_HBG            GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGAATCGT
Phoe_sheareri_HBG             GCGCGACACGGCGTGT-GGGGGT--TGAGAGGCGATTCGT

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Aiou_costaricensis_G8241      CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
Aiou_saligna_M3165            CGCCGATCGTACGTCGCGCCCGCACTCCGCCGCGCG--GT
Anib_firmula_M3356            CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
C_cam_AF272260                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_JN115020                CGTCGATCGTACGTG-------------------------
C_cam_JX242469                CGCCGATCGTACGTTGCACCCTCATTCCGCCGCTCG--AA
C_cam_KP092856                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KP092857                CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
C_cam_KP218517                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KT248576                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KU139826                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KX546414                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KX546537                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_KX766404                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_cam_MF096119                CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCG--GA
C_cam_MF096120                CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCG--GA
C_cam_MF096121                CGCCGATCGTACGTTGCGCCCTCATTCCGCCGCTCG--GA
C_cam_MF110040                CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
C_par_KP092858                CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GA
C_par_KU139871                CGCCGATCGTACGTCGCGCCCGCATTCGGCCGCGCG--GA
C_par_KX546421                CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GA
C_par_MF110054                CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GA
C_por_d_MF110039              CGCCGATCGTACGCCGCGCCCGCATTCCGCCGCGCG--GA
Aiou_alainii_EH11506          CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Aiou_amoena_R1072             CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Cinm_burmannii_LR2010_10      CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_camphora_cf_G061425_NGS2 CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GA
Cinm_chekiangense_LWB462      CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_daphnoides_Lsn           CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_dictyoneuron_L885        CGCCGATCGTACGCAGCGCCCGCATTCCGCCGTGCG--GT
Cinm_glanduliferum_Nsn        CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GA
Aiou_hammeliana_H14091        CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Cinm_iners_L31089             CGCCGATCGCACGCAGCGCCCGCATTCCGCCGCGCG--GT
Cinm_insularimontanum_Rsn     CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_loureiroi_Lsn            CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_osmophloeum_Dsn          CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_paiei_C1237              CGCCGATCGTACGCAGCGCCCGCATTCCGCCGCGCG--GT
Cinm_pittosporoides_LR2010_11 CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_polderi_cf_B1574         CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_tamala_H12882            CGCCGATCGTACGTCGCGCCCGCAATCCGCCGCGCG--GT
Cinm_verum_L41050             CGCCGATCGTACGCAGCGCCCGCATTCCGCCGCGCG--GT
Cinm_wilsonii_LR2010_06       CGCCGATCGTACGTCGCGCCCGCARTCCGCCGCGCG--GT
Damb_coriacea_Hsn             CGCCGACCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Endl_glomerata_M3187          CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Laur_nobilis_HBG              CGCCGATCGTACGTCGCGCCCKCATTCCGCCGCGCGCAGT
Lica_crassifolia_C8248        CGCCGATCGTACGTCGCGCCCGCATCCCGCCGCGCG--GC
Lind_benzoin_HBG              CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGCAGT
Mach_grijsii_HBG              CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGCAGT
Nect_psammophila_M3540        CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Neol_sericea_HBG              CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGCAGT
Ocot_aciphylla_M3210          CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Ocot_foetens_Fsn              CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCCCG--GT
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Ocot_gabonensis_cf_W654       CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
Ocot_indecora_M3548           CGCCGATCTTACGTCGCGCCCGCATTCCGCCGCTCG--GT
Ocot_pedalifolia_D9514        CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
Ocot_porosa_M3375             --CCGATCTCACGTCGCGCCCGCTTTCCGCCGCTCG--GT
Ocot_pulchella_M3154          CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Ocot_quixos_N9487             CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
Ocot_salvadorensis_R1414      CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GC
Pers_americana_HBG            CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCG--GT
Phoe_sheareri_HBG             CGCCGATCGTACGTCGCGCCCGCATTCCGCCGCGCGCAGT

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Aiou_costaricensis_G8241      GCC-GCCC-GTGGGACC--AGACTGCGCCCG-CAGCCGCG
Aiou_saligna_M3165            GCC-GCCCCGCGGGACA--GTTCC-CGCCCG-CATCCGCG
Anib_firmula_M3356            GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
C_cam_AF272260                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                GCC-ACTC-ATGGAACC--AAACT-CGCCCG-CAGCCGTG
C_cam_KP092856                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KP092857                GCC-ACCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
C_cam_KP218517                TCC-ACCG-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KT248576                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KU139826                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KX546414                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KX546537                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_KX766404                TCC-ACCG-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_cam_MF096119                GCC-ACTC-ATGGGACC--AAACT-C--------------
C_cam_MF096120                GCC-ACTC-ATGGGACC--AAACT-C--------------
C_cam_MF096121                GCC-ACTC-ATGGGACC--AAACT-C--------------
C_cam_MF110040                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_par_KP092858                TCC-GCCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_par_KU139871                TCCAACCC-GCGGGACC--AGACCCCGCCCG-CAGCCGCG
C_par_KX546421                TCC-GCCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_par_MF110054                TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
C_por_d_MF110039              TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
Aiou_alainii_EH11506          GCC-GCCCCGTGGGACC--GGACT-CGCCCG-CATCCGCG
Aiou_amoena_R1072             GCC-GCCCCGTGGGACC--GTACC-CGCCCG-CATCCGCG
Cinm_burmannii_LR2010_10      GCC-ACCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_camphora_cf_G061425_NGS2 TCC-GCCC-GCGGGACC--AGACC-CGCCCG-YAGCCGCG
Cinm_chekiangense_LWB462      GCC-ACMC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_daphnoides_Lsn           GCCAGCCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_dictyoneuron_L885        GCC-ACCC-ATGGGACC--ATACA-CGCCCG-CAGCCGCG
Cinm_glanduliferum_Nsn        TCC-ACCC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
Aiou_hammeliana_H14091        GCC-GCCCCGTGGGACC--GGACT-CGCCCG-CATCCGCG
Cinm_iners_L31089             GCC-GCCC-GTGGGACC--ATATC-CGCCCG-CAGCCGCG
Cinm_insularimontanum_Rsn     GCCCGCCC-GTGGGACC--ATACC-CGCCCGCCAGCCGCG
Cinm_loureiroi_Lsn            GCC-ACCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_osmophloeum_Dsn          GCC-ACCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_paiei_C1237              GCC-ACCC-ATGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_pittosporoides_LR2010_11 GCC-ACCA-TTGGGACC--ATACG-CGCCCG-CAGCCGCG
Cinm_polderi_cf_B1574         GCAAGCCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_tamala_H12882            GCC-ACCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_verum_L41050             GCC-GCCC-GTGGGACC--ATACC-CGCCCG-CAGCCGCG
Cinm_wilsonii_LR2010_06       GCCCGCCC-GTGGGACCATATACC-CGCCCG-CAGCCGCG
Damb_coriacea_Hsn             CTA-GCCC-GTGGGACC--GGACTTCGCCCG-CAGCCGCG
Endl_glomerata_M3187          GCCCGCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Laur_nobilis_HBG              GTC-ACCC-GTGGGACC--GGACT-CGCCCG-CAGCCGCG
Lica_crassifolia_C8248        GCT-GCCC-GTGGGACC--GGACTCCGCCCG-CAGCCGCG
Lind_benzoin_HBG              GTC-ACCC-GTGGGACC--AGACT-CGCCCG-CATCCGCG
Mach_grijsii_HBG              GTC-ACCC-GTGGGACC--GGACT-CGCCCG-CAGCCGCG
Nect_psammophila_M3540        GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Neol_sericea_HBG              GTC-ACCC-GTGGGACC--GTACT-CGCCCG-CAGCCGCG
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Ocot_aciphylla_M3210          GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Ocot_foetens_Fsn              GCC-GCCC-GTGGGACC--AGACTCCGCCCG-CAGCCGCG
Ocot_gabonensis_cf_W654       GAC-GCCC-GTGGGACC--AGACTCCGCCCG-CAGCCGCG
Ocot_indecora_M3548           GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Ocot_pedalifolia_D9514        GCC-GCCC-GTGGGACC-AAGACTGCGCCCG-CAGCCGCG
Ocot_porosa_M3375             GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Ocot_pulchella_M3154          GCG-GCCC-GTGGGACC--AGACTCCGCCCG-CTGCCGCG
Ocot_quixos_N9487             GCC-GCCC-GTGGGACC--GGACTCCGCCCG-CAGCCGCG
Ocot_salvadorensis_R1414      GCC-GCCC-GTGGGACC--AGACTTCGCCCG-CAGCCGCG
Pers_americana_HBG            GCC-AACC-GCGGGACC--AGACC-CGCCCG-CAGCCGCG
Phoe_sheareri_HBG             GTC-ACCC-GTGGGACC--GGACT-CGCCCG-CAGCCGCG

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Aiou_costaricensis_G8241      GGAGYCCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Aiou_saligna_M3165            GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Anib_firmula_M3356            GGCGCCCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
C_cam_AF272260                GGCGCTCGGACCGCGACCCCAGG-----------------
C_cam_JN115020                ----------------------------------------
C_cam_JX242469                GGTGCTCAAACCGCGACCTCAGGTCAGGCGTGGTCACCCG
C_cam_KP092856                GGCGCTCGGACCGCGACCCCAG------------------
C_cam_KP092857                GGCGCTCGGACCGCGACCCCAGGTCAGG------------
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C_par_KP092858                GGCGCTCGGACCGCGACCCCAG------------------
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C_par_KX546421                GGCGCTCGGACCGCGACCCCAGGTCAGGCG----------
C_par_MF110054                GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
C_por_d_MF110039              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Aiou_alainii_EH11506          GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Aiou_amoena_R1072             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_burmannii_LR2010_10      GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_camphora_cf_G061425_NGS2 GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_chekiangense_LWB462      GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_daphnoides_Lsn           GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_dictyoneuron_L885        GGCGCCCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_glanduliferum_Nsn        GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Aiou_hammeliana_H14091        GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_iners_L31089             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_insularimontanum_Rsn     GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_loureiroi_Lsn            GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_osmophloeum_Dsn          GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_paiei_C1237              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_pittosporoides_LR2010_11 GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_polderi_cf_B1574         GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_tamala_H12882            GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_verum_L41050             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Cinm_wilsonii_LR2010_06       GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Damb_coriacea_Hsn             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Endl_glomerata_M3187          GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Laur_nobilis_HBG              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Lica_crassifolia_C8248        GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Lind_benzoin_HBG              GGCGCCCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Mach_grijsii_HBG              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
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Nect_psammophila_M3540        GGCGCTCGGACCGCGACCCCAGG-----------------
Neol_sericea_HBG              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_aciphylla_M3210          GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_foetens_Fsn              GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_gabonensis_cf_W654       GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_indecora_M3548           GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_pedalifolia_D9514        GGAGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_porosa_M3375             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_pulchella_M3154          GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_quixos_N9487             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Ocot_salvadorensis_R1414      GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG
Pers_americana_HBG            GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGGCACCCG
Phoe_sheareri_HBG             GGCGCTCGGACCGCGACCCCAGGTCAGGCGTGGCCACCCG

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Aiou_costaricensis_G8241      CTGAATTTAAGCATATCAATAAGCGGAGGA
Aiou_saligna_M3165            CTGAATTTAAGCATATCAATAAGCGGAGGA
Anib_firmula_M3356            CTGAATTTAAGCATATCAATAAGCGGAGGA
C_cam_AF272260                -------------------------------
C_cam_JN115020                -------------------------------
C_cam_JX242469                TTGA---------------------------
C_cam_KP092856                -------------------------------
C_cam_KP092857                -------------------------------
C_cam_KP218517                CTGA---------------------------
C_cam_KT248576                -------------------------------
C_cam_KU139826                -------------------------------
C_cam_KX546414                -------------------------------
C_cam_KX546537                -------------------------------
C_cam_KX766404                CTGA---------------------------
C_cam_MF096119                -------------------------------
C_cam_MF096120                -------------------------------
C_cam_MF096121                -------------------------------
C_cam_MF110040                CTGA---------------------------
C_par_KP092858                -------------------------------
C_par_KU139871                -------------------------------
C_par_KX546421                -------------------------------
C_par_MF110054                CTGA---------------------------
C_por_d_MF110039              CTGA---------------------------
Aiou_alainii_EH11506          CTGAATTTAAGCATATCAATAAGCGGAGGA
Aiou_amoena_R1072             CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_burmannii_LR2010_10      CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_camphora_cf_G061425_NGS2 CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_chekiangense_LWB462      CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_daphnoides_Lsn           CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_dictyoneuron_L885        CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_glanduliferum_Nsn        CTGAATTTAAGCATATCAATAAGCG-----
Aiou_hammeliana_H14091        CTGAATTTAAGCATATCAATAAGCGGAGG-
Cinm_iners_L31089             CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_insularimontanum_Rsn     CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_loureiroi_Lsn            CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_osmophloeum_Dsn          CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_paiei_C1237              CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_pittosporoides_LR2010_11 CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_polderi_cf_B1574         CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_tamala_H12882            CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_verum_L41050             CTGAATTTAAGCATATCAATAAGCGGAGGA
Cinm_wilsonii_LR2010_06       CTGAATTTAAGCATATCAATAAGCGGAGGA
Damb_coriacea_Hsn             CTGAATTTAAGCATATCAATAAGCGGAGGA
Endl_glomerata_M3187          CTGAATTTAAGCATATCAATAAGCGGAGGA
Laur_nobilis_HBG              C------------------------------
Lica_crassifolia_C8248        CTGAATTTAAGCATATCAATAAGCGGAGGA
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Lind_benzoin_HBG              CTGAATTTAAGCATATC-------------
Mach_grijsii_HBG              CTGAATTTAAGCATATCAATAAG-------
Nect_psammophila_M3540        ------------------------------
Neol_sericea_HBG              CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_aciphylla_M3210          CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_foetens_Fsn              CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_gabonensis_cf_W654       CTGAATTTAAGCATATC-------------
Ocot_indecora_M3548           CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_pedalifolia_D9514        CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_porosa_M3375             CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_pulchella_M3154          CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_quixos_N9487             CTGAATTTAAGCATATCAATAAGCGGAGGA
Ocot_salvadorensis_R1414      CTGAATTTAAGCATATCAATAAGCGGAGGA
Pers_americana_HBG            CTGAATTTAAGCATATCAATAAGCGGAGGA
Phoe_sheareri_HBG             CTGAATTTAAGCATATCAATAAGCGGAGGA
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end;
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