

A rpl19-atpA

Rpl19
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 M D L F K V G D T I Q V Y G K L Q E S E
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 R Q R I Q F Y L G I L Q M K K G I G R T
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 T M R I V L S E F N G E I K M K C T F Y
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 L N S K L I D Y M V I L H K P I Y M Y F
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 L L P K A A L I F K Y K F F T M T K I Q
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 P E E I T R I I K S Q L L R S S K S K N
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 S F I H V G T V L Q I G D G I V R I Y G
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 L N K A M A G E L L R F E V E G F T V G
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 I A L N L E Y S N V G A V L M G E S R N
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 I R E G T K V W A T G K I A Q V P V G K
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 E L L G R I V N S L A A P V D G L G D I
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 Y S C A I H L V E A P A P G I I D R R S
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 V F E P L Q T G I L S I D A M I P I G R
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 G Q R E L V I G D R Q T G K T A V A I D
 GCGATTTCAACCAACAGGAGAAAGTGAATAACGTTTACGTTGCGATGGTCAAAAA
 A I L N Q T G E S V K C V Y V A I G Q K
 AtpA
 GCATCTTCGGTTGCTCAAGTTGTGAATAATCTAAAAGAACGTTGGAGCAATAGACATACA
 A S S V A Q V V N N L K E R G A M D Y T
 GTCATTTGTCAGCTACAGCTGATAGCCAGCTACACTCAATATTTGGTCCATATACA
 V I V A A T A D S P A T L Q Y L A P Y T
 GGAGCATCGATTGCAGAACACTTTATGTATGGGGGTCGCACTCTTATAGTTTACGAC
 G A S I A E H F M Y G G S H T L M V Y D
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 D L S K H A Q A Y R E M S L L L R R P P
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 G R E A Y P G D I F Y V H S R L L E R A
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 A R L F D K L G G G S M T A L P I V E T
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 Q A R D V S A Y I P T N V I S I T D G Q
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 I F L S A D L F N S G L R P A V D V G I
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 S V S R V G S A A Q K K P M K Q V S G K
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 L K L E L A Q F A E L E A F A Q F A S D
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 L D A A T Q S Q L A R G R R L R E L L K
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 Q Q N S P F P V Q N M V F M I F A R T
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 N G F L D K C E M S E V Q G E L Q R F V
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 R K A M N K Y S T E D F S T N P L P S D
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 F G E K M K E I M L A D *

B psbK-rpl20

PsbK
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 M I Y S L A K L P E A Y S L V K S I V D
 Rpl20
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 V L P I V P V F F L L L A F V W Q A S V
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 S F R L I M Y Y K K M F F L M R R V K R
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 S N S R S F R M A K Q Q L M K S M N F S
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 Y C S Q Q N R K R Y F R S L W I I R L N
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 R A L K T C T I S D R N I M F K N R L I
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 E K D T F F F S D K C N Y L T F I Y S I
 CGACAAGAAAGTGCATCTAAATCGAAAAGTATGGCACAATAGTACTACTCGACCCA
 R Q R K C I L N R K V M A Q M V L L D P
 CCATTTTTTATAAATGGTAGATGAGGCTCTATTTATTTAGTAG
 P F F Y K L V D E A L F M L *

Figure S1 (Kamikawa et al.)

A
rpI23 AAAAGAAATATCCAAATGACACTCTCTAGAAATGAATCTGTATTATTTGGGTCTATAAGTCCAGGTATTCGCTATACTACATCCAATGTTTTTAA
rpI2 K R N I Q M T L S R N E S V L F W V Y K S R Y S L Y Y I Q C F *
 M N L Y Y F G S M S P G I R Y T T S N V F K K A I R H K F N K H

B
rpI14 TCTCTAGCTCCTGAAGTAGTATTATTTATGAAACAGCGATTGAAAAAGTTTATCAAAATTCGTTGGTACAAAGTGAACACTATCTGAAGTTTCGAATATTACGAATATTCACCAATTCCA
rpI5 S L A P E V V L F Y E T A I E K S L S K I D W Y K V E T L S E V F E Y Y E Y S P N S
 M K Q R L K K V Y Q K L I G T K L K H Y L K F S N I T N I H Q I P
 AAAATAAAAAAATTTGTATCAATCGAAGGGTAGGTGCACAATCTTTGAAAATGGTAGAACTTTCGATTTGGAATTTGCTTATATCTCGGGACAAAGTGGTATGATTACTCAATTCGCGAAGTCTG
rpI14 K N K K N C Y Q S K G R C T I F E N G R N F A I G I V L Y L G T K W Y D Y S F A K F
rpI5 K M K K I V I N R R V G A Q S L K M V E T L R L E L S Y I S G Q S G M I T H S R S S
 TAGCTGGATTTAAATTTCGCAATAAGGTTCTCTAGTATTATAGTAACCTACGAGGAGAACGAATGTACGCCTTTTTTGATCGTTGGTAAACCTAAGACTCCGCGTATTCGAGATTTTCGAGG
rpI14 S W I *
rpI5 V A G F K I R N K V P V G I M V T L R G E R M Y A F F D R L V N L R L P R I R D F R

C
petL ATTCGCCTGATTTTATATGGTAGAACCACTTTTGTCCGGAAATGTACTTGGTTTGGATTCGCCGTTGTTATTTCTGGACTTTTACGATAGCTTATCTCCAATTTTCGTCGAAGGGACCAATTTATCAACA
petG I R L I L Y G R T T F V G N C T W F D S R C Y F W T F Y D S L S P I S S K G P I I N
 M V E P L L S G I V L G L I P V V I S G L F T M A Y L Q F R R R D Q L S T
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petL N K N K C I F F V I G *
petG M K T N V F F S L L V K I E H M C L L *
psbI M L T L K I F V Y S I I T F F V S V F I F G F L S R

D
atpI CACTTAACCAAGTTTAATTATTTAAAGCAGTGAATCAAATTTATTTAAACATGATCCGAAAAACGACAAATTTTCTATAAAACACAAAAAAATACAATCAATTTTTGCAAATTCAAATA
rhoC1 H L T S L I I L S S E I K F I L K H D P K K R Q I F L *
 M I R K N D K F F Y K N T K K M Q I N F L Q I Q M

E
rps11 ACAGCTCTTCCACATAATGGCTCTCGATCTCCAAAACGAGCTCGTGTTTTAAATAAAATGGTTTGAATTCTCTATAATTTTCCAGAAAATCTCTTCTACCCAAATGACAGAATTTTTTCTCATTG
rpoA T A L P H N G C R S P K R R R V L M K W F *
 M V L N S Y N F S R K S L S T Q M T E F F L H

F
 TGTAAATAACTTATTATTCATTTTCGTTTAAATAAACTAATAACAAGGACATCTCATCGCTTAAAGGCTAAGATATCAAAATCTTGATTTTGTGTGAACAGGGATTCGAGTTCCTTTGAGATTT
psaC C N K L I I H F R L M K L M T R T I L I V *
 trnK(cuu)

G
 CAAGATCAACCACATGAGAATCTAATTTTTCTGAAGAAGTTTGCCTCTGGAAACGCTCTTTAAACAACAACTTCGATTTGGTGACAACTCAAGAATCTACGGGTTTGCATGGTGGGCAGGA
psbD Q D Q P H E N L I F P E E V L P R G N A L *
psbC V E T L F N N K L S I G G Q T Q E S T G F A W W A G

H
 GCAATTTAAATTTTATTGTTATATATGGAAGCTATGTTTATACATTTTGTGATTTGGCACTCTGGAAATFATTTCTTTGCTATTTTTTTCGTTAAACCACCACGTATTGTTAAATTTATGGAA
psbB A I L N F I V M Y G S Y C L Y I F V D W H S W N Y F L C Y F F S *
psbT M E A I V Y T F L L I G T L G I I F F A I F F R E P P R I V K L L E

I
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psbH M T A F L F F L V I I L E L W N G S L L L E S V P V S W *
urf129 M A L C Y W N L F L S L G N M S M K K G I S M A K M T

Fig. S2 (Kamikawa et al.)


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ycf3 ATGCTCTCGATCTCCACGGGAATGACAATTCATTGACAAAAACATTTACAATTATCGCAAAAT
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ψycf3 TTAATTTTGAAAGGCATTCCTATTCAAAAAACAGATAAAATAGTTTATGCATTTTATCGT
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ψycf3 GATGGATTCACCGCAATCGAAGAACGAATATGTA-----
ycf3 GCACTTCGCCTCGAAACAGACCCGTTTGTATCGGAGTTACATTCTCTATAATATTAGATTG
ψycf3 -----
ycf3 ATTCATACTCGAATGGACGTTATTGTGCGGCCCTTGAGTATTATTTGCAGCTTTGGAT
ψycf3 -----
ycf3 CGAAATCCGGGACTAGTGCAAGCTCTTAATAATATCAGAATCTTGACCATTGCGCGGGA
ψycf3 -----
ycf3 GAAGAAGCTGTAAAAAATAAATACGAAGTGCTAAGCTTCTATTTCTCGAAGCGCC
ψycf3 -----
ycf3 GAATATTGGAAGAAGCAATTCGACTCACACCTTCTAATTACATTGAAGCTCAAAATTGG
ψycf3 -----
ycf3 ATTCGATAAATCTTCCAATTACAACATAA-----
ψycf3 -----

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Figure S4 (Kamikawa et al.)

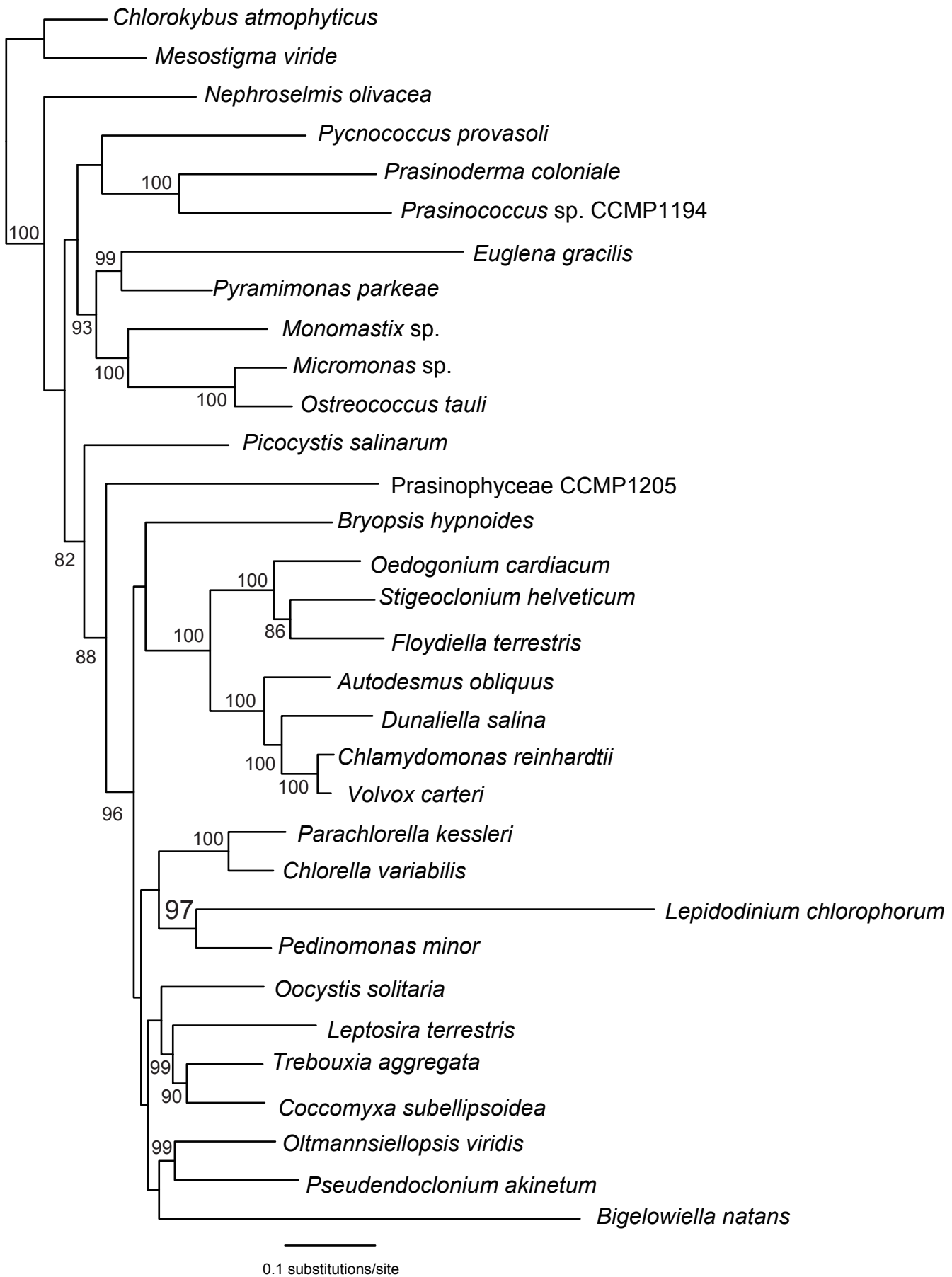


Fig. S6 (Kamikawa et al.)