

Figure S1

Region of forward primer

CTGCGGAAGGATCATTATTGAA

Termitomyces sp. Type A Japan
Termitomyces sp. Type B Japan
AB051888 *Termitomyces* sp. Malaysia
AB051889 *Termitomyces* sp. Malaysia
KU569480 *Termitomyces clypeatus* Viet Nam
KR155043 *Termitomyces* sp. India
KR154979 *Termitomyces* sp. India
JF746993 *Termitomyces* sp. Taiwan
KF302106 *Termitomyces* sp. China
KF302107 *Termitomyces* sp. China
AB073529 *Termitomyces* sp. Thailand
FJ147329 *Termitomyces clypeatus* Thailand
KX250316 *Termitomyces* sp. South Africa

KJ817325 *Coriolopsis* sp.
KJ817310 *Trichoderma* sp.
KJ817326 *Fusarium* sp.
KJ817313 *Ascomycota* sp.
GU324755 *Xylaria nigripes*
EU179864 *Xylaria escharoidea*
AB274813 *Geniculisynnema termiticola*

Termitomyces

Fungi associated with fungus-growing termite nest

Region of reverse primer

GACCATTGACCTCAAATCAGG

Termitomyces sp. Type A Okinawa or Iriomote
Termitomyces sp. Type A Ishigaki
Termitomyces sp. Type B Japan
AB051888 *Termitomyces* sp. Malaysia
AB051889 *Termitomyces* sp. Malaysia
KU569480 *Termitomyces clypeatus* Viet Nam
KR155043 *Termitomyces* sp. India
KR154979 *Termitomyces* sp. India
JF746993 *Termitomyces* sp. Taiwan
KF302106 *Termitomyces* sp. China
KF302107 *Termitomyces* sp. China
AB073529 *Termitomyces* sp. Thailand
FJ147329 *Termitomyces clypeatus* Thailand
EF636906 *Termitomyces* sp. South Africa
GQ383693 *Termitomyces* sp. Kenya

KJ817325 *Coriolopsis* sp.
KJ817310 *Trichoderma* sp.
KJ817326 *Fusarium* sp.
KJ817313 *Ascomycota* sp.
GU324755 *Xylaria nigripes*
EU179864 *Xylaria escharoidea*
AB274813 *Geniculisynnema termiticola*

Termitomyces

Fungi associated with fungus-growing termite nest

Figure S2

| | |
|-------------------|---|
| AB051879 Okinawa | T T - A A A C C T G G T T G G G T T G C T G C T G G C C T C A G A G G C A T G T G C A C G C C T G C C A T C G T T T |
| AB051880 Ishigaki | - - - |
| AB051882 Iriomote | - - |
| AB051883 Iriomote | - T |
| AB051886 Iriomote | - T |
| LC421532 Okinawa* | - - |
| LC421534 Okinawa* | - T |
| LC421535 Okinawa* | - - - T |
| AB051879 Okinawa | T C A A C C A C C T G T G C A C C T T T G T A G A C T T T G G G - A T A C C T T T C G A G G G T C A A G C C C C |
| AB051880 Ishigaki | - - - - - G - - - - - T T |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | - - T C G G T T T G G G G T T - G C T G C G C T G C C A A A A A G C C C G G C T C C T C T G C A T C T C C A A G T |
| AB051880 Ishigaki | - - - T - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | C C - - - - - G |
| AB051886 Iriomote | C C - - - - - AG |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | C T A T G C A T T T T A T T A T A C C C G T A A A G A A T G T A T T A G A A T G T T C G T T A T T G G C C T T T G G |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - G |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | T G C C T T T A A T C A A A T A C A A C T T C A G G A C A C G G A T C T C T T G G C T C T C G C A T C G A T G A A G A A |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | C G C A G C G A A A T G C G A T A A G T A A T G T G A A T T G C A G A A T T C A G T G A A T C A T C G A A T C T T G A |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | A C G C A C C T T G C G C T C C T T - G G T A T T C C G A G G A G C A T G C C T G T T G A G T G T C A T T A A A T T C |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - C - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - T |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | T C A A C T A A C T A G C T T T G C G A G C T T G G A T A G G C T T G G A T G T G G G G C T T - G C G G G C T T |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | C A C T T G A A A G T C A G C T C C C C T T A A T G C A T T A G T G G A A C C C T T G T G A - C T T G C T C C T |
| AB051880 Ishigaki | - - - C - - - - |
| AB051882 Iriomote | - - - C - - - - |
| AB051883 Iriomote | - - - C - - - - |
| AB051886 Iriomote | - - - C - - - - |
| LC421532 Okinawa* | - - - C - - - - |
| LC421534 Okinawa* | - - - C - - - - |
| LC421535 Okinawa* | - - - C - - - - A - - - - |
| AB051879 Okinawa | G G T G T G A T A A T T A C T A C T G T G C A G T C G G C T G T T T A A T G G G G C T T T C T G C T T C T |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |
| AB051879 Okinawa | A A C T C G T A T C A C C T |
| AB051880 Ishigaki | - - - - - |
| AB051882 Iriomote | - - - - - |
| AB051883 Iriomote | - - - - - |
| AB051886 Iriomote | - - - - - |
| LC421532 Okinawa* | - - - - - |
| LC421534 Okinawa* | - - - - - |
| LC421535 Okinawa* | - - - - - |

Figure S3

| | |
|--------------------|---|
| AB051881 Iriomote | T G T G C A C G C C T T A T T C A A A C C C A C C T G T G C A C C T T T G T A G A C A G A C T T G T T T T - G T C T |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | T |
| LC421533 Okinawa* | T |
| LC421536 Iriomote* | T |
| LC421537 Iriomote* | T |
| LC421538 Iriomote* | T |
| AB051881 Iriomote | A T C A A T C A T T T A C T C C C G T G T A A T C A G A A T G T T A T T G A T T G G C C T C A G T G C C T T T A A T C A |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | A A T A T T A T A C A A C T T T C A G C A A C G G A T C T T G G C T C T C G C A T C G A T G A A G G A C G C A G C G |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | A A A C G C G A T A A G T A A T G T G A A T T G C A G A C A C G T G A A T C A T C G A A T C T T G A A C G C A C C T T |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | G C G C T C C T T G G T G A T C T G A G G A G C A T G C C T G T T G A G T G T C A T T A A A T T C T C A A C C T A A C |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | C A A C T T T G G A T A G G C T T G G A T T G T G G G G C T T T G C T G G C T C A A C C C T C A G A A G T C A |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | ? |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | G C T C C C T T A A A C G C A T T A G T G G A A C G A T T G T G A C C T T G T T C C T G G T G T G A T A A A A C |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |
| AB051881 Iriomote | C T T T A T C A C C A C C G T G T G C A G T C A G C T T A C T C T G C T T C T A A C C G A T T |
| AB051884 Iriomote | . |
| AB051885 Iriomote | . |
| AB051887 Iriomote | . |
| AB051890 Iriomote | . |
| LC421530 Okinawa* | . |
| LC421531 Okinawa* | . |
| LC421533 Okinawa* | . |
| LC421536 Iriomote* | . |
| LC421537 Iriomote* | . |
| LC421538 Iriomote* | . |

Figure S4

