

Alignment of ITS, *gapdh*, and *tef1* combined sequences of 18 isolates from this study with reference strains of *Bipolaris* species from the GenBank

```
UEM4639      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4749      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4610      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4625      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4631      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4644      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4650      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4674      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4687      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4693      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4733      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4751      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KJ922381_Bipolaris_sorokiniana_CBS110_14  CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4618      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4665      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4658      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4680      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4698      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KJ415528_Bipolaris_gossypina_BRIP14840T  CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
UEM4662      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KJ909762_Bipolaris_bicolor_CBS690_96      CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KX452453_Bipolaris_shoemakeri_BRIP15929T  CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KJ415537_Bipolaris_secalis_BRIP14453T     CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KX452458_Bipolaris_woodii_BRIP12239T     CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KY905676_Bipolaris_variabilis_CBS127716T  CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KJ415538_Bipolaris_zeae_BRIP11512IsoPT    CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
JX089579_Bipolaris_microstegii_CBS132550T CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
KM230398_Bipolaris_zeicola_FIP532ET       CCATGTCCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCCCGCCACCAGGACCAAAACC 60
MH856511_1_Curvularia_buchloes_CBS246_49  CCTTGTCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCTCGCCACCAGGACCAACAA 60
MH860884_1_Curvularia_subpapendorffii_CBS656_74 CCTTGTCTTTTGCCCACTTGTGTTTCCTGGGCGGGTTCGCTCGCCACCAGGACCAACAA 60
* * * * *

UEM4639      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4749      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4610      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4625      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4631      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4644      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4650      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4674      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4687      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4693      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4733      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4751      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
KJ922381_Bipolaris_sorokiniana_CBS110_14  ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4618      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4665      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 115
UEM4658      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 116
UEM4680      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 116
UEM4698      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 116
KJ415528_Bipolaris_gossypina_BRIP14840T  ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 116
UEM4662      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATT-AT 116
KJ909762_Bipolaris_bicolor_CBS690_96      ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATAATT 119
KX452453_Bipolaris_shoemakeri_BRIP15929T  ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
KJ415537_Bipolaris_secalis_BRIP14453T     ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
KX452458_Bipolaris_woodii_BRIP12239T     ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
KY905676_Bipolaris_variabilis_CBS127716T  ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 116
KJ415538_Bipolaris_zeae_BRIP11512IsoPT    ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 116
JX089579_Bipolaris_microstegii_CBS132550T ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 116
KM230398_Bipolaris_zeicola_FIP532ET       ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
MH856511_1_Curvularia_buchloes_CBS246_49  ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
MH860884_1_Curvularia_subpapendorffii_CBS656_74 ATAAACCTTTT---TTTATGCAGTTGCAATCAGCGTCAGTAAAAACAATG-TAATTAAAT 117
* * * * *

UEM4639      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4749      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4610      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4625      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4631      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4644      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4650      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4674      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4687      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4693      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4733      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4751      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
KJ922381_Bipolaris_sorokiniana_CBS110_14  TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4618      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4665      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
UEM4658      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
UEM4680      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
UEM4698      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
KJ415528_Bipolaris_gossypina_BRIP14840T  TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
UEM4662      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
KJ909762_Bipolaris_bicolor_CBS690_96      TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
KX452453_Bipolaris_shoemakeri_BRIP15929T  TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 179
KJ415537_Bipolaris_secalis_BRIP14453T     TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 177
KX452458_Bipolaris_woodii_BRIP12239T     TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 177
KY905676_Bipolaris_variabilis_CBS127716T  TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
KJ415538_Bipolaris_zeae_BRIP11512IsoPT    TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 177
JX089579_Bipolaris_microstegii_CBS132550T TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 176
KM230398_Bipolaris_zeicola_FIP532ET       TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 177
MH856511_1_Curvularia_buchloes_CBS246_49  TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 177
MH860884_1_Curvularia_subpapendorffii_CBS656_74 TACAACCTTTCACAAACGGGATCTCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCG 175
* * * * *
```

UEM4639 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4749 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4610 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4625 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4631 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4644 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4650 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4674 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4687 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4693 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4733 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4751 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 KJ922381_Bipolaris_sorokiniana_CBS110_14 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4618 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4665 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4658 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4680 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 UEM4698 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 KJ415528_Bipolaris_gossypina_BRIP14840T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 236
 UEM4662 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 236
 KJ909762_Bipolaris_bicolor_CBS690_96 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 236
 KX452453_Bipolaris_shoemakeri_BRIP15929T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 237
 KJ415537_Bipolaris_secalis_BRIP14453T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 237
 KX452458_Bipolaris_woodii_BRIP12239T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 237
 KJ905676_Bipolaris_variabillis_CBS127716T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 236
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 237
 JX089579_Bipolaris_microstegii_CBS132550T ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 236
 KM230398_Bipolaris_zeicola_FIP532ET ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 237
 MH856511_1_Curvularia_buchloes_CBS246_49 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235
 MH860884_1_Curvularia_subpapendorffii_CBS656_74 ATACGTAGTGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGGCCG 235

 UEM4639 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4749 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4610 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4625 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4631 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4644 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4650 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4674 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4687 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4693 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4733 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4751 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 KJ922381_Bipolaris_sorokiniana_CBS110_14 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4618 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4665 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 UEM4658 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 UEM4680 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 UEM4698 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 KJ415528_Bipolaris_gossypina_BRIP14840T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 UEM4662 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 KJ909762_Bipolaris_bicolor_CBS690_96 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 299
 KX452453_Bipolaris_shoemakeri_BRIP15929T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 297
 KJ415537_Bipolaris_secalis_BRIP14453T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 297
 KX452458_Bipolaris_woodii_BRIP12239T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 KJ905676_Bipolaris_variabillis_CBS127716T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 297
 JX089579_Bipolaris_microstegii_CBS132550T CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 296
 KM230398_Bipolaris_zeicola_FIP532ET CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 297
 MH856511_1_Curvularia_buchloes_CBS246_49 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295
 MH860884_1_Curvularia_subpapendorffii_CBS656_74 CTTTGGAATTCCAAGGGCAGTCCTGTTTCGAGCGTCATTGTACCTTCAAGCTTTTGCTTG 295

 UEM4639 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4749 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4610 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4625 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4631 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4644 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4650 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4674 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4687 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4693 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4733 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4751 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 KJ922381_Bipolaris_sorokiniana_CBS110_14 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4618 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4665 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 UEM4658 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 351
 UEM4680 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 351
 UEM4698 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 352
 KJ415528_Bipolaris_gossypina_BRIP14840T GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 351
 UEM4662 GTGTTGGGCGTTTTT---TGTCCTCCCTTTTCTGGGAGATCGCCTTAAACGATTGGCA 351
 KJ909762_Bipolaris_bicolor_CBS690_9

UEM4639		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4749		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4610		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4625		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4631		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4644		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4650		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4674		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4687		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4693		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4733		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4751		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ922381_Bipolaris_sorokiniana_CBS110_14		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4618		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4665		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4658		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4680		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4698		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ415528_Bipolaris_gossypina_BRIP14840T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4662		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ909762_Bipolaris_bicolor_CBS690_96		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KX452453_Bipolaris_shoemakeri_BRIP15929T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ415537_Bipolaris_secalis_BRIP14453T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KX452458_Bipolaris_woodii_BRIP12239T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ905676_Bipolaris_variabilis_CBS127716T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KJ415538_Bipolaris_zeae_BRIP11512IsoPT		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
JX089579_Bipolaris_microstegii_CBS132550T		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
KM230398_Bipolaris_zeicola_FIP532ET		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
MH856511_1_Curvularia_buchloes_CBS246_49		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
MH860884_1_Curvularia_subpapendorffii_CBS656_74		GCCGGCCTACTGGTTTCGGAGCGCAGACATATTTTGC	520
UEM4639		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4749		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4610		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4625		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4631		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4644		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4650		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4674		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4687		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4693		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4733		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4751		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ922381_Bipolaris_sorokiniana_CBS110_14		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4618		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4665		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4658		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4680		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4698		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ415528_Bipolaris_gossypina_BRIP14840T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4662		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ909762_Bipolaris_bicolor_CBS690_96		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KX452453_Bipolaris_shoemakeri_BRIP15929T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ415537_Bipolaris_secalis_BRIP14453T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KX452458_Bipolaris_woodii_BRIP12239T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ905676_Bipolaris_variabilis_CBS127716T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KJ415538_Bipolaris_zeae_BRIP11512IsoPT		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
JX089579_Bipolaris_microstegii_CBS132550T		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
KM230398_Bipolaris_zeicola_FIP532ET		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
MH856511_1_Curvularia_buchloes_CBS246_49		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
MH860884_1_Curvularia_subpapendorffii_CBS656_74		CAACGACGTCGACATTGTCGCCGTAACGACCCCTTTCATCGAGCCCCACTACGCTGTAAG	472
UEM4639		CACCCCTCAATCCAGAACCCTTACCAGAGCAAGCGTTTGCTTCGGC-----	520
UEM4749		CACCCCTCAATCCAGAACCCTTACCAGAGCAAGCGTTTGCTTCGGC-----	520
UEM4610		CACCCCTCAATCCAGAACCCTTACCAGAGCAAGCGTTTGCTTCGGC-----	520

UEM4639	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4749	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4610	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4625	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4631	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4644	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4650	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4674	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4687	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4693	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4733	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4751	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
KJ922381_Bipolaris_sorokiniana_CBS110_14	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4618	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4665	-CTGATGCACTGGTATCATTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
UEM4658	-ATGACGCACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	577
UEM4680	-ATGACGCACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	577
UEM4698	-ATGACGCACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	577
KJ415528_Bipolaris_gossypina_BRIP14840T	-ATGACGCACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	577
UEM4662	-ATGACGCACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	577
KJ909762_Bipolaris_bicolor_CBS690_96	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	583
KX452453_Bipolaris_shoemakeri_BRIP15929T	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	582
KJ415537_Bipolaris_secalis_BRIP14453T	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	581
KX452458_Bipolaris_woodii_BRIP12239T	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	583
KY905676_Bipolaris_variabilis_CBS127716T	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	579
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	579
JX089579_Bipolaris_microstegii_CBS132550T	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	578
KM230398_Bipolaris_zeicola_FIP532ET	-CTGACGTACTGGTACCATTTC-CTTTGATGGAACATATGCAGACTGACGTATACACAGGCA	579
MH856511_1_Curvularia_buchloes_CBS246_49	CCTGACGCCCCGCGCATCA--TTTATTGATAGACAGTGCAGCTGACATCTACATAGGCA	587
MH860884_1_Curvularia_subpapendorffii_CBS656_74	-----GCATCCATTGGCAGCAAAAGGCTAACATCTACATAGGCG	526
	* * * * *	
UEM4639	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4749	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4610	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4625	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4631	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4644	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4650	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4674	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4687	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4693	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4733	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4751	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
KJ922381_Bipolaris_sorokiniana_CBS110_14	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4618	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4665	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
UEM4658	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	637
UEM4680	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	637
UEM4698	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
KJ415528_Bipolaris_gossypina_BRIP14840T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	637
UEM4662	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	637
KJ909762_Bipolaris_bicolor_CBS690_96	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	643
KX452453_Bipolaris_shoemakeri_BRIP15929T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	642
KJ415537_Bipolaris_secalis_BRIP14453T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	641
KX452458_Bipolaris_woodii_BRIP12239T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	643
KY905676_Bipolaris_variabilis_CBS127716T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	639
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	638
JX089579_Bipolaris_microstegii_CBS132550T	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	639
KM230398_Bipolaris_zeicola_FIP532ET	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	581
MH856511_1_Curvularia_buchloes_CBS246_49	TACATGCTCAAGTATGACAGCACACACGGCCAGTTCAAGGGTGACATCAAGGTTGACGGC	586
MH860884_1_Curvularia_subpapendorffii_CBS656_74	*****	
UEM4639	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4749	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4610	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4625	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4631	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4644	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4650	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4674	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4687	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4693	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4733	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4751	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
KJ922381_Bipolaris_sorokiniana_CBS110_14	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4618	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4665	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
UEM4658	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	697
UEM4680	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	697
UEM4698	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	697
KJ415528_Bipolaris_gossypina_BRIP14840T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	697
UEM4662	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	697
KJ909762_Bipolaris_bicolor_CBS690_96	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	703
KX452453_Bipolaris_shoemakeri_BRIP15929T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	702
KJ415537_Bipolaris_secalis_BRIP14453T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	701
KX452458_Bipolaris_woodii_BRIP12239T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	703
KY905676_Bipolaris_variabilis_CBS127716T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	699
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	698
JX089579_Bipolaris_microstegii_CBS132550T	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	699
KM230398_Bipolaris_zeicola_FIP532ET	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	707
MH856511_1_Curvularia_buchloes_CBS246_49	AACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCACATGGAGAAGGACCCCGCCAAC	646
MH860884_1_Curvularia_subpapendorffii_CBS656_74	*****	

UEM4639	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4749	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4610	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4625	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4631	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4644	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4650	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4674	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4687	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4693	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4733	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4751	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
KJ922381_Bipolaris_sorokiniana_CBS110_14	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4618	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4665	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
UEM4658	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	757
UEM4680	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	757
UEM4698	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	757
KJ415528_Bipolaris_gossypina_BRIP14840T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	757
UEM4662	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	757
KJ909762_Bipolaris_bicolor_CBS690_96	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	763
KX452453_Bipolaris_shoemakeri_BRIP15929T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	762
KJ415537_Bipolaris_secalis_BRIP14453T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	761
KX452458_Bipolaris_woodii_BRIP12239T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	763
KY905676_Bipolaris_variabilis_CBS127716T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	759
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	759
JX089579_Bipolaris_microstegii_CBS132550T	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
KM230398_Bipolaris_zeicola_FIP532ET	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	758
MH856511_1_Curvularia_buchloes_CBS246_49	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	767
MH860884_1_Curvularia_subpapendorfii_CBS656_74	ATTTCCATGGAGCGAGACTGGCGCTTACTACGTCGTCGAGTCTACCGGTGTCTTACCACC	706

UEM4639	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4749	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4610	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4625	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4631	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4644	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4650	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4674	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4687	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4693	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4733	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4751	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
KJ922381_Bipolaris_sorokiniana_CBS110_14	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4618	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4665	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
UEM4658	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	817
UEM4680	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	817
UEM4698	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	817
KJ415528_Bipolaris_gossypina_BRIP14840T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	817
UEM4662	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	817
KJ909762_Bipolaris_bicolor_CBS690_96	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	823
KX452453_Bipolaris_shoemakeri_BRIP15929T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	822
KJ415537_Bipolaris_secalis_BRIP14453T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	821
KX452458_Bipolaris_woodii_BRIP12239T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	823
KY905676_Bipolaris_variabilis_CBS127716T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	819
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	819
JX089579_Bipolaris_microstegii_CBS132550T	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	818
KM230398_Bipolaris_zeicola_FIP532ET	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	819
MH856511_1_Curvularia_buchloes_CBS246_49	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	827
MH860884_1_Curvularia_subpapendorfii_CBS656_74	ACTGAGAAGGCCAAGGCCCACTTGAAGGCGGAGGCCAAGAAGGTTGTCATCTCCGCTCCC	766

UEM4639	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4749	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4610	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4625	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4631	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4644	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4650	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4674	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4687	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4693	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4733	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4751	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
KJ922381_Bipolaris_sorokiniana_CBS110_14	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4618	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4665	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
UEM4658	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	877
UEM4680	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	877
UEM4698	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	877
KJ415528_Bipolaris_gossypina_BRIP14840T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	877
UEM4662	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	877
KJ909762_Bipolaris_bicolor_CBS690_96	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	883
KX452453_Bipolaris_shoemakeri_BRIP15929T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	882
KJ415537_Bipolaris_secalis_BRIP14453T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	881
KX452458_Bipolaris_woodii_BRIP12239T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	883
KY905676_Bipolaris_variabilis_CBS127716T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	879
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	879
JX089579_Bipolaris_microstegii_CBS132550T	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	878
KM230398_Bipolaris_zeicola_FIP532ET	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	879
MH856511_1_Curvularia_buchloes_CBS246_49	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	887
MH860884_1_Curvularia_subpapendorfii_CBS656_74	TCTGCTGATGCTCCCATGTTGTCATGGGTGTCAACCACGAGACCTACAAGCCCGACAGA	826

[illegible]

UEM4639		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4749		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4610		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4625		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4631		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4644		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4650		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4674		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4687		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4693		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4733		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4751		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
KJ922381	Bipolaris sorokiniana CBS110_14	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4618		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4665		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4658		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1117
UEM4680		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
UEM4698		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
KJ415528	Bipolaris gossypina BRIP14840T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1117
UEM4662		GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1117
KJ909762	Bipolaris bicolor CBS690_96	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1123
KX452453	Bipolaris shoemakeri BRIP15929T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1122
KJ415537	Bipolaris secalis BRIP14453T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1121
KX452458	Bipolaris woodii BRIP12239T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1123
KJ905676	Bipolaris variabilis CBS127716T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1119
KJ415538	Bipolaris zeae BRIP11512IsoPT	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1118
JX089579	Bipolaris microstegii CBS132550T	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1119
KM230398	Bipolaris zeicola FIP532ET	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1119
MH856511_1	Curvularia buchloes CBS246_49	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1127
MH860884_1	Curvularia subpapendorffii CBS656_74	GGAGTCACACGCAACGTTACACAGCAGCGGATCTCCTTGACGGAGACGTTCTTGACGTTGAA	1066

UEM4639		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4749		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4610		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4625		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4631		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4644		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4650		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4674		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4687		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4693		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4733		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4751		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
KJ922381	Bipolaris sorokiniana CBS110_14	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4618		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4665		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1178
UEM4658		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1177
UEM4680		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1177
UEM4698		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1177
KJ415528	Bipolaris gossypina BRIP14840T	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1177
UEM4662		ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1177
KJ909762	Bipolaris bicolor CBS690_96	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1183
KX452453	Bipolaris shoemakeri BRIP15929T	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1182
KJ415537	Bipolaris secalis BRIP14453T	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1181
KX452458	Bipolaris woodii BRIP12239T	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1183
KJ905676	Bipolaris variabilis CBS127716T	ACCGAGCTTGTACCCGGGGACACCTTCGGTCAGCTGCTCGTGGTGCAATCTCGACGGACTT	1179

[illegible]

UEM4639
 UEM4749
 UEM4610
 UEM4625
 UEM4631
 UEM4644
 UEM4650
 UEM4674
 UEM4687
 UEM4693
 UEM4733
 UEM4751
 KJ922381_Bipolaris_sorokiniana_CBS110_14
 UEM4618
 UEM4665
 UEM4658
 UEM4680
 UEM4698
 KJ415528_Bipolaris_gossypina_BRIP14840T
 UEM4662
 KJ909762_Bipolaris_bicolor_CBS690_96
 KX452453_Bipolaris_shoemakeri_BRIP15929T
 KJ415537_Bipolaris_secalis_BRIP14453T
 KX452458_Bipolaris_woodii_BRIP12239T
 KJ905676_Bipolaris_variabilis_CBS127716T
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT
 JX089579_Bipolaris_microstegii_CBS132550T
 KM230398_Bipolaris_zeicola_FIP532ET
 MH856511_1_Curvularia_buchloes_CBS246_49
 MH860884_1_Curvularia_subpapendorffii_CBS656_74

 UEM4639
 UEM4749
 UEM4610
 UEM4625
 UEM4631
 UEM4644
 UEM4650
 UEM4674
 UEM4687
 UEM4693
 UEM4733
 UEM4751
 KJ922381_Bipolaris_sorokiniana_CBS110_14
 UEM4618
 UEM4665
 UEM4658
 UEM4680
 UEM4698
 KJ415528_Bipolaris_gossypina_BRIP14840T
 UEM4662
 KJ909762_Bipolaris_bicolor_CBS690_96
 KX452453_Bipolaris_shoemakeri_BRIP15929T
 KJ415537_Bipolaris_secalis_BRIP14453T
 KX452458_Bipolaris_woodii_BRIP12239T
 KJ905676_Bipolaris_variabilis_CBS127716T
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT
 JX089579_Bipolaris_microstegii_CBS132550T
 KM230398_Bipolaris_zeicola_FIP532ET
 MH856511_1_Curvularia_buchloes_CBS246_49
 MH860884_1_Curvularia_subpapendorffii_CBS656_74

 UEM4639
 UEM4749
 UEM4610
 UEM4625
 UEM4631
 UEM4644
 UEM4650
 UEM4674
 UEM4687
 UEM4693
 UEM4733
 UEM4751
 KJ922381_Bipolaris_sorokiniana_CBS110_14
 UEM4618
 UEM4665
 UEM4658
 UEM4680
 UEM4698
 KJ415528_Bipolaris_gossypina_BRIP14840T
 UEM4662
 KJ909762_Bipolaris_bicolor_CBS690_96
 KX452453_Bipolaris_shoemakeri_BRIP15929T
 KJ415537_Bipolaris_secalis_BRIP14453T
 KX452458_Bipolaris_woodii_BRIP12239T
 KJ905676_Bipolaris_variabilis_CBS127716T
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT
 JX089579_Bipolaris_microstegii_CBS132550T
 KM230398_Bipolaris_zeicola_FIP532ET
 MH856511_1_Curvularia_buchloes_CBS246_49
 MH860884_1_Curvularia_subpapendorffii_CBS656_74

 UEM4639
 UEM4749
 UEM4610
 UEM4625
 UEM4631
 UEM4644
 UEM4650
 UEM4674
 UEM4687
 UEM4693
 UEM4733
 UEM4751
 KJ922381_Bipolaris_sorokiniana_CBS110_14
 UEM4618
 UEM4665
 UEM4658
 UEM4680
 UEM4698
 KJ415528_Bipolaris_gossypina_BRIP14840T
 UEM4662
 KJ909762_Bipolaris_bicolor_CBS690_96
 KX452453_Bipolaris_shoemakeri_BRIP15929T
 KJ415537_Bipolaris_secalis_BRIP14453T
 KX452458_Bipolaris_woodii_BRIP12239T
 KJ905676_Bipolaris_variabilis_CBS127716T
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT
 JX089579_Bipolaris_microstegii_CBS132550T
 KM230398_Bipolaris_zeicola_FIP532ET
 MH856511_1_Curvularia_buchloes_CBS246_49
 MH860884_1_Curvularia_subpapendorffii_CBS656_74

 UEM4639
 UEM4749
 UEM4610
 UEM4625
 UEM4631
 UEM4644
 UEM4650
 UEM4674
 UEM4687
 UEM4693
 UEM4733
 UEM4751
 KJ922381_Bipolaris_sorokiniana_CBS110_14
 UEM4618
 UEM4665
 UEM4658
 UEM4680
 UEM4698
 KJ415528_Bipolaris_gossypina_BRIP14840T
 UEM4662
 KJ909762_Bipolaris_bicolor_CBS690_96
 KX452453_Bipolaris_shoemakeri_BRIP15929T
 KJ415537_Bipolaris_secalis_BRIP14453T
 KX452458_Bipolaris_woodii_BRIP12239T
 KJ905676_Bipolaris_variabilis_CBS127716T
 KJ415538_Bipolaris_zeae_BRIP11512IsoPT
 JX089579_Bipolaris_microstegii_CBS132550T
 KM230398_Bipolaris_zeicola_FIP532ET
 MH856511_1_Curvularia_buchloes_CBS246_49
 MH860884_1_Curvularia_subpapendorffii_CBS656_74

UEM4639	CTTCACACCAAGGG	1612
UEM4749	CTTGACACCAAGGG	1612
UEM4610	CTTGACACCAAGGG	1612
UEM4625	CTTGACACCAAGGG	1612
UEM4631	CTTGACACCAAGGG	1612
UEM4644	CTTGACACCAAGGG	1612
UEM4650	CTTGACACCAAGGG	1612
UEM4674	CTTGACACCAAGGG	1612
UEM4687	CTTGACACCAAGGG	1612
UEM4693	CTTGACACCAAGGG	1612
UEM4733	CTTGACACCAAGGG	1612
UEM4751	CTTGACACCAAGGG	1612
KJ922381_Bipolaris_sorokiniana_CBS110_14	CTTGACACCAAGGG	1612
UEM4618	CTTGACACCAAGGG	1612
UEM4665	CTTGACACCAAGGG	1612
UEM4658	CTTGACACCAAGGG	1611
UEM4680	CTTGACACCAAGGG	1611
UEM4698	CTTGACACCAAGGG	1611
KJ415528_Bipolaris_gossypina_BRIP14840T	CTTGACACCAAGGG	1611
UEM4662	CTTGACACCAAGGG	1611
KJ909762_Bipolaris_bicolor_CBS690_96	CTTGACACCAAGGG	1617
KX452453_Bipolaris_shoemakeri_BRIP15929T	CTTGACACCAAGGG	1616
KJ415537_Bipolaris_secalis_BRIP14453T	CTTGACACCAAGGG	1615
KX452458_Bipolaris_woodii_BRIP12239T	CTTGACACCAAGGG	1617
KY905676_Bipolaris_variabilis_CBS127716T	CTTGACACCAAGGG	1613
KJ415538_Bipolaris_zeae_BRIP11512IsoPT	CTTGACACCAAGGG	1613
JX089579_Bipolaris_microstegii_CBS132550T	CTTGACACCAAGGG	1612
KM230398_Bipolaris_zeicola_FIP532ET	CTTGACACCAAGGG	1613
MH856511_1_Curvularia_buchloes_CBS246_49	CTTGACACCAAGGG	1621
MH860884_1_Curvularia_subpapendorffii_CBS656_74	CTTGACACCAAGGG	1560
	*** **	