

Alignment of *gapdh* sequences of 18 isolates from this study with reference strains of *Bipolaris* species from the GenBank

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UEM4610      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4618      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4625      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4631      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4639      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4644      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4650      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4665      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4674      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4687      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4693      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4733      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4749      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4751      CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KM034822_Bipolaris_sorokiniana_CBS110_14  CCCTGTGCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4658      CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4662      CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4680      CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
UEM4698      CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KJ415418_Bipolaris_gossypina_BRIP14840T  CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KM042893_Bipolaris_bicolor_CBS690_96     CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KX452424_Bipolaris_woodii_BRIP12239T     CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KX452419_Bipolaris_shoemakeri_BRIP15929T  CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KJ415409_Bipolaris_secalis_BRIP14453T     CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
JX089575_Bipolaris_microstegii_CBS132550T CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KM034815_Bipolaris_zeicola_FIP532ET       CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KY905688_Bipolaris_variabilis_CBS127716T  CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KJ415408_Bipolaris_zeae_BRIP11512IsoPT    CACCGTCTCTCAGCATCGAGCACAACGACGTCGACATTGTGCGCGTAAACGACCCCTTTCA 60
KM061789_Curvularia_buchloes_CBS246_49    CGGTAGCCCGCAGCATCGAGCACAACGACGTCGAGATCGTCGCGGTAAACGACCCCTTTCA 60
KM061791_Curvularia_subpapendorffii_CBS656_74  TCGTAGCTCGCAGCATCGAGCACAACGACGTCGAGATTGTGCGCGTAAACGACCCCTTTCA 60
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UEM4631      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
UEM4639      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
UEM4644      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
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UEM4665      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
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UEM4749      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
UEM4751      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KM034822_Bipolaris_sorokiniana_CBS110_14  TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
UEM4658      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
UEM4662      TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
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KM042893_Bipolaris_bicolor_CBS690_96     TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KX452424_Bipolaris_woodii_BRIP12239T     TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KX452419_Bipolaris_shoemakeri_BRIP15929T  TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KJ415409_Bipolaris_secalis_BRIP14453T     TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
JX089575_Bipolaris_microstegii_CBS132550T TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KM034815_Bipolaris_zeicola_FIP532ET       TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KY905688_Bipolaris_variabilis_CBS127716T TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KJ415408_Bipolaris_zeae_BRIP11512IsoPT    TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
KM061789_Curvularia_buchloes_CBS246_49    TCGAGCCCCACTACGCTGTAAGCACCCTCTCAATCCAGAACCTTTTACCAGAGCAAGCGT 120
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UEM4618      TTGC-----TTGCGCTGATGCACTGGTATCATTC-CTTTGATGGAACATG 166
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UEM4751      TTGC-----TTGCGCTGATGCACTGGTATCATTC-CTTTGATGGAACATG 166
KM034822_Bipolaris_sorokiniana_CBS110_14  TTGC-----TTGCGCTGATGCACTGGTATCATTC-CTTTGATGGAACATG 166
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KM042893_Bipolaris_bicolor_CBS690_96     TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
KX452424_Bipolaris_woodii_BRIP12239T     TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
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KJ415409_Bipolaris_secalis_BRIP14453T     TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
JX089575_Bipolaris_microstegii_CBS132550T TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
KM034815_Bipolaris_zeicola_FIP532ET       TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
KY905688_Bipolaris_variabilis_CBS127716T TTGC-----TTGCGCTGACGTAAGTGGTACCATTCT-CTTTGATGGGAACATG 166
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UEM4639	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4644	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
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UEM4665	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4674	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4687	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4693	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
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UEM4749	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
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KM034822_Bipolaris_sorokiniana_CBS110_14	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4658	CATACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4662	CATACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4680	CATACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
UEM4698	CATACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
KJ415418_Bipolaris_gossypina_BRIP14840T	CATACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
KM042893_Bipolaris_bicolor_CBS690_96	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
KX452424_Bipolaris_woodii_BRIP12239T	CAGACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
KX452419_Bipolaris_shoemakeri_BRIP15929T	CACACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
KJ415409_Bipolaris_secalis_BRIP14453T	CACACTGACGTATACACAGGCATACATGCTCAAGTATGACAGCACACACGGCCAGTTCAA	226
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UEM4625	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4631	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4639	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4644	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4650	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4665	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4674	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4687	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
UEM4693	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
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UEM4749	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
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UEM4658	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
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KX452424_Bipolaris_woodii_BRIP12239T	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
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KJ415409_Bipolaris_secalis_BRIP14453T	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
XJ089575_Bipolaris_microstegii_CBS132550T	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
KM034815_Bipolaris_zeicola_FIP532ET	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
KY905688_Bipolaris_variabilis_CBS127716T	GGGTGACATCAAGGTTGACGGCAACAACCTGACCGTCAACGGCAAGACTATCCGTTTCCA	286
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KM061789_Curvularia_buchloes_CBS246_49	GGGCGACATCAAGGTTGACGGCAACAACCTGACTGCTCAACGGCAAGACTATCCGTTTCCA	235
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UEM4610	CATGGAGAAGGACCCCGCCAACATTCCATGGAGCGAGACTGGCGCTTACTACGTCGTGCGA	346
UEM4618	CATGGAGAAGGACCCCGCCAACATTCCATGGAGCGAGACTGGCGCTTACTACGTCGTGCGA	346
UEM4625	CATGGAGAAGGACCCCGCCAACATTCCATGGAGCGAGACTGG	

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UEM4618		GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
UEM4625		GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
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UEM4751		GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
KM034822	Bipolaris_sorokiniana_CBS110_14	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
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UEM4698		GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
KJ415418	Bipolaris_gossypina_BRIP14840T	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
KM042893	Bipolaris_bicolor_CBS690_96	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
KX452424	Bipolaris_woodii_BRIP12239T	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	407
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KJ415409	Bipolaris_secalis_BRIP14453T	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
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KM034815	Bipolaris_zeicola_FIP532ET	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
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KJ415408	Bipolaris_zeae_BRIP11512IsoPT	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	406
KM061789	Curvularia_buchloes_CBS246_49	GTCTACCGGTGTCTTACCACCACTGAGAAGGCCAAGGCCCACTTGAAGGGCGGAGGCCAA	418
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UEM4625		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4631		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4639		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4644		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4650		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4665		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4674		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4687		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4693		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
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UEM4751		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KM034822	Bipolaris_sorokiniana_CBS110_14	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
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UEM4680		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
UEM4698		GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KJ415418	Bipolaris_gossypina_BRIP14840T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KM042893	Bipolaris_bicolor_CBS690_96	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KX452424	Bipolaris_woodii_BRIP12239T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	467
KX452419	Bipolaris_shoemakeri_BRIP15929T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KJ415409	Bipolaris_secalis_BRIP14453T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
JX089575	Bipolaris_microstegii_CBS132550T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KM034815	Bipolaris_zeicola_FIP532ET	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KY905688	Bipolaris_variabilis_CBS127716T	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KJ415408	Bipolaris_zeae_BRIP11512IsoPT	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	466
KM061789	Curvularia_buchloes_CBS246_49	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	478
KM061791	Curvularia_subpappendorffii_CBS656_74	GAAGGTTGTATCTCCGCTCCCTCTGCTGATGCTCCCATGTTGCTCATGGGTGTCAACCA	415

UEM4610	CGAGACCTACAAGCCCGACA	486	
UEM4618	CGAGACCTACAAGCCCGACA	486	
UEM4625	CGAGACCTACAAGCCCGACA	486	
UEM4631	CGAGACCTACAAGCCCGACA	486	
UEM4639	CGAGACCTACAAGCCCGACA	486	
UEM4644	CGAGACCTACAAGCCCGACA	486	
UEM4650	CGAGACCTACAAGCCCGACA	486	
UEM4665	CGAGACCTACAAGCCCGACA	486	
UEM4674	CGAGACCTACAAGCCCGACA	486	
UEM4687	CGAGACCTACAAGCCCGACA	486	
UEM4693	CGAGACCTACAAGCCCGACA	486	
UEM4733	CGAGACCTACAAGCCCGACA	486	
UEM4749	CGAGACCTACAAGCCCGACA	486	
UEM4751	CGAGACCTACAAGCCCGACA	486	
KM034822	Bipolaris_sorokiniana_CBS110_14	CGAGACCTACAAGCCCGACA	486
UEM4658	CGAGACCTACAAGCCCGAC-	485	
UEM4662	CGAGACCTACAAGCCCGACA	486	
UEM4680	CGAGACCTACAAGCCCGACA	486	
UEM4698	CGAGACCTACAAGCCCGACA	486	
KJ415418	Bipolaris_gossypina_BRIP14840T	CGAGACCTACAAGCCCGACA	486
KM042893	Bipolaris_bicolor_CBS690_96	CGAGACCTACAAGCCCGACA	486
KX452424	Bipolaris_woodii_BRIP12239T	CGAGACCTACAAGCCCGACA	487
KX452419	Bipolaris_shoemakeri_BRIP15929T	CGAGACCTACAAGCCCGACA	486
KJ415409	Bipolaris_secalis_BRIP14453T	CGAGACCTACAAGCCCGATA	486
JX089575	Bipolaris_microstegii_CBS132550T	CGAGACCTACAAGCCCGACA	486
KM034815	Bipolaris_zeicola_FIP532ET	CGAGACCTACAAGCCCGACA	486
KY905688	Bipolaris_variabilis_CBS127716T	CGAGACCTACAAGCCCGACA	486
KJ415408	Bipolaris_zeae_BRIP11512IsoPT	CGAGACCTACAAGCCCGACA	486
KM061789	Curvularia_buchloes_CBS246_49	CGAGACCTACAAGTCCGACA	498
KM061791	Curvularia_subpappendorffii_CBS656_74	CGAGACCTACAAGTCTGACA	435
