

Supplementary Figure S8. Alignment of 28Si4 intron sequences used for diagnostic primer design.

Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	100
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	100
<i>M_caribense</i> _INISAV_LBM-30	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
<i>M_caribense</i> _INISAV_LBM-41	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
<i>M_caribense</i> _INISAV_LBM-42	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
<i>M_caribense</i> _ARSEF_5197	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	100
<i>Metarhizium</i> _sp_EAMa_00/09-Su	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
<i>Metarhizium</i> _sp_EAMa_01/16-Su	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
<i>Metarhizium</i> _sp_EAMa_01/94-Su	AGATTGTGTC	TCATGTTCTA	TACATAAGCG	TATCTCACCG	TCTGTATTAT	GAGTGTTTCC	ACGAGTAATT	CAGACGTCTT	CGGAGTTGGC	AGAGGGAAAC	100
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	200
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	200
<i>M_caribense</i> _INISAV_LBM-30	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATTCTT	CCCAGGGAGG	200
<i>M_caribense</i> _INISAV_LBM-41	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATTCTT	CCCAGGGAGG	200
<i>M_caribense</i> _INISAV_LBM-42	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATTCTT	CCCAGGGAGG	200
<i>M_caribense</i> _ARSEF_5197	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATTCTT	CCCAGGGAGG	200
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	200
<i>Metarhizium</i> _sp_EAMa_00/09-Su	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATCCTT	CCCAGGGAGG	200
<i>Metarhizium</i> _sp_EAMa_01/16-Su	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATCCTT	CCCAGGGAGG	200
<i>Metarhizium</i> _sp_EAMa_01/94-Su	ACCTCTACAG	CCTCCTTCGG	GTCTTCAAGC	ATCGGAATGG	TTCTTGCGGC	GACTTTGGGA	GGTTCTTGGA	GTTTATCTTC	ACTGATCCTT	CCCAGGGAGG	200
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	300
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	300
<i>M_caribense</i> _INISAV_LBM-30	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
<i>M_caribense</i> _INISAV_LBM-41	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
<i>M_caribense</i> _INISAV_LBM-42	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
<i>M_caribense</i> _ARSEF_5197	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	300
<i>Metarhizium</i> _sp_EAMa_00/09-Su	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
<i>Metarhizium</i> _sp_EAMa_01/16-Su	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
<i>Metarhizium</i> _sp_EAMa_01/94-Su	TGGTGGTCTG	TCAGTAAGTC	ATATTACTTG	CCGTCACAAC	TGTGGTGGTA	AGCATTATGA	GGCGCTGGCG	GCAGCGGCCG	TTCATCCTGA	GAACTACCCA	300
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	400
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	400
<i>M_caribense</i> _INISAV_LBM-30	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
<i>M_caribense</i> _INISAV_LBM-41	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
<i>M_caribense</i> _INISAV_LBM-42	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
<i>M_caribense</i> _ARSEF_5197	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	400
<i>Metarhizium</i> _sp_EAMa_00/09-Su	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
<i>Metarhizium</i> _sp_EAMa_01/16-Su	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400
<i>Metarhizium</i> _sp_EAMa_01/94-Su	ATGTTTGACC	ACGAACGGTA	CAGGCGCCCG	TGCGTCAGCA	CTGGTACCTT	TGAGGATGGG	AAGAACCCTG	GTCTTGTAAGT	AGCAGATCTC	TGTGAAAAAG	400

Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	500
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	500
M_caribense_INISAV_LBM-30	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGATT	TTGACTTTGA	GCCTAGCTCC	TCAGTAGCAC	CATCGTCAGT	500
M_caribense_INISAV_LBM-41	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGATT	TTGACTTTGA	GCCTAGCTCC	TCAGTAGCAC	CATCGTCAGT	500
M_caribense_INISAV_LBM-42	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGATT	TTGACTTTGA	GCCTAGCTCC	TCAGTAGCAC	CATCGTCAGT	500
M_caribense_ARSEF_5197	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGATT	TTGACTTTGA	GCCTAGCTCC	TCAGTAGCAC	CATCGTCAGT	500
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	500
Metarhizium_sp_EAMa_00/09-Su	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGACT	TTGACTTTGA	GCCTAGCTCC	TCGGTAGCAC	CATCGTCAGT	500
Metarhizium_sp_EAMa_01/16-Su	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGACT	TTGACTTTGA	GCCTAGCTCC	TCGGTAGCAC	CATCGTCAGT	500
Metarhizium_sp_EAMa_01/94-Su	CCGGGCGATT	CCTAGCCAGT	ATCGGGAAGG	GTGACCCAGA	AGGGCATAGA	GGCAGAGACT	TTGACTTTGA	GCCTAGCTCC	TCGGTAGCAC	CATCGTCAGT	500
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	600
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	600
M_caribense_INISAV_LBM-30	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
M_caribense_INISAV_LBM-41	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
M_caribense_INISAV_LBM-42	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
M_caribense_ARSEF_5197	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	600
Metarhizium_sp_EAMa_00/09-Su	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
Metarhizium_sp_EAMa_01/16-Su	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAGA	600
Metarhizium_sp_EAMa_01/94-Su	ACTCGGTGAT	AATGGCTGTG	GGAAGGAAAG	CCAAGCTTCG	GGGGACCTCG	AGGTTTGTGA	AATTCCGGAT	AGTCAGGATT	CACAAGGGGC	CCGGCTGAAA	600
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	700
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	700
M_caribense_INISAV_LBM-30	AGTTGGGTCC	CGGGTTTTTG	CGGCG--AT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
M_caribense_INISAV_LBM-41	AGTTGGGTCC	CGGGTTTTTG	CGGCG--AT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
M_caribense_INISAV_LBM-42	AGTTGGGTCC	CGGGTTTTTG	CGGCG--AT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
M_caribense_ARSEF_5197	AGTTGGGTCC	CGGGTTTTTG	CGGCG--AT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	700
Metarhizium_sp_EAMa_00/09-Su	AGTCGGGTCC	CGGGTTTTTG	CGGCGGTGAT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
Metarhizium_sp_EAMa_01/16-Su	AGTCGGGTCC	CGGGTTTTTG	CGGCGGTGAT	GAGGAGATCC	GTGAAAGTGA	TTTCATGGAA	CTCGCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
Metarhizium_sp_EAMa_01/94-Su	AGTCGGGTCC	CGGGTTTTTG	CGGCGGTGAT	GAGGAAATCC	CTGAAAGTGA	TTTCATGGAA	TTCTCGGAGG	AGGAGGAAGC	GATTGAACTC	CCTGAGCAAT	700
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	800
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	800
M_caribense_INISAV_LBM-30	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TGCCTTCGGG	TGACTCTCCT	CTCCAAGGCG	ACAGGCGGTC	800
M_caribense_INISAV_LBM-41	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TGCCTTCGGG	TGACTCTCCT	CTCCAAGGCG	ACAGGCGGTC	800
M_caribense_INISAV_LBM-42	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TGCCTTCGGG	TGACTCTCCT	CTCCAAGGCG	ACAGGCGGTC	800
M_caribense_ARSEF_5197	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TGCCTTCGGG	TGACTCTCCT	CTCCAAGGCG	ACAGGCGGTC	800
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	800
Metarhizium_sp_EAMa_00/09-Su	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TACCTTCGGG	TGACTCTCCT	CTCCAAAGCG	ACGGGCGGTC	800
Metarhizium_sp_EAMa_01/16-Su	CCGGACCACC	AGTAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TACCTTCGGG	TGACTCTCCT	CTCCAAAGCG	ACGGGCGGTC	800
Metarhizium_sp_EAMa_01/94-Su	CCGGACCACC	AATAATGGCG	GGCTGGGGCG	TCCAGAGCAG	CGCAATTTCT	TCTGGGGAGA	TACCTTCGGG	TGACTCTCCT	CTCCAAAGCG	ACGGGCGGTC	800

Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	900
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	900
M_caribense_INISAV_LBM-30	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
M_caribense_INISAV_LBM-41	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
M_caribense_INISAV_LBM-42	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
M_caribense_ARSEF_5197	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	900
Metarhizium_sp_EAMa_00/09-Su	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
Metarhizium_sp_EAMa_01/16-Su	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
Metarhizium_sp_EAMa_01/94-Su	GTCTACTAAG	ATGAGAGCAG	CAACATTAGG	TTATCTCTGG	GGGTTCGCTC	GTCGGCCCAG	CGAGTTACGG	GAGCAATTCC	GTTTACTTGT	AACCAGGTCT	900
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1000
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1000
M_caribense_INISAV_LBM-30	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
M_caribense_INISAV_LBM-41	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
M_caribense_INISAV_LBM-42	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
M_caribense_ARSEF_5197	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1000
Metarhizium_sp_EAMa_00/09-Su	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
Metarhizium_sp_EAMa_01/16-Su	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
Metarhizium_sp_EAMa_01/94-Su	GACTTACATG	TGCTGCACCT	CTGTGGTTGT	GGGATGTGCT	ATACTACAGG	TAGTGGGGTT	CGGATTCCCTG	GATGTGTAGA	ACATTCTCAC	CTCCGCTTAG	1000
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1100
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1100
M_caribense_INISAV_LBM-30	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCATAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
M_caribense_INISAV_LBM-41	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCATAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
M_caribense_INISAV_LBM-42	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCATAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
M_caribense_ARSEF_5197	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCATAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1100
Metarhizium_sp_EAMa_00/09-Su	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCACAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
Metarhizium_sp_EAMa_01/16-Su	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCACAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
Metarhizium_sp_EAMa_01/94-Su	GCTCGTCGAG	GGAAAACGGC	CACCACCGGA	ATTTCCACAT	TGTGCTCAGC	TTCACACCGG	TAGAGAATTA	TCCC GTTCAG	TGCGGTTTAC	TTCACAGTC	1100
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1200
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1200
M_caribense_INISAV_LBM-30	TGACAGCGAG	TATGGTATCG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGGGTC	1200
M_caribense_INISAV_LBM-41	TGACAGCGAG	TATGGTATCG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGGGTC	1200
M_caribense_INISAV_LBM-42	TGACAGCGAG	TATGGTATCG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGGGTC	1200
M_caribense_ARSEF_5197	TGACAGCGAG	TATGGTATCG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGGGTC	1200
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1200
Metarhizium_sp_EAMa_00/09-Su	TGACAGTGGG	TATGGTGTCTG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGTGTC	1200
Metarhizium_sp_EAMa_01/16-Su	TGACAGTGGG	TATGGTGTCTG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGTGTC	1200
Metarhizium_sp_EAMa_01/94-Su	TGACAGTGGG	TATGGTGTCTG	GAGTATTCTG	ATGCGGCGAG	TTGGTTTATA	CGAGCAGATA	CGTTCTTCAT	AATACTTGCT	TCAACCTCGC	GGCAGGTGTC	1200

Meta28Si4long-F1	-----	-TAGGTGAAG	GGGCTGCAAG	TC-----	-----	-----	-----	-----	-----	-----	-----	1300
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-AAGGCGT--	ATCGCAGTAT	GACT-----	-----	-----	-----	1300
M_caribense_INISAV_LBM-30	CGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGT--	ATCGCAGTAT	GACTAACAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
M_caribense_INISAV_LBM-41	CGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGT--	ATCGCAGTAT	GACTAACAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
M_caribense_INISAV_LBM-42	CGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGT--	ATCGCAGTAT	GACTAACAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
M_caribense_ARSEF_5197	CGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGT--	ATCGCAGTAT	GACTAACAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	---GGCGTGT	ATTGCAGTAT	AACC-----	-----	-----	-----	1300
Metarhizium_sp_EAMa_00/09-Su	TGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGTGT	ATTGCAGTAT	AACCA-CAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
Metarhizium_sp_EAMa_01/16-Su	TGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGTGT	ATTGCAGTAT	AACCA-CAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
Metarhizium_sp_EAMa_01/94-Su	TGGATCCGCT	GTAGGTGAAG	GGGCTGCAAG	TCTTGGGCGG	GTAGGTATTG	TAAGGCGTGT	ATTGCAGTAT	AACCA-CAGT	TAATTTCTCT	AGAGGGGTTT	-----	1300
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1400
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1400
M_caribense_INISAV_LBM-30	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
M_caribense_INISAV_LBM-41	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
M_caribense_INISAV_LBM-42	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
M_caribense_ARSEF_5197	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1400
Metarhizium_sp_EAMa_00/09-Su	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
Metarhizium_sp_EAMa_01/16-Su	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
Metarhizium_sp_EAMa_01/94-Su	CGCGATGCGT	GTTGTATATA	ATTTGTTTCT	TGTTGGTGGG	AATAGTCAGG	TCTCAGGGAG	GGGCTGAGAT	TATGCTGGCT	AGTCGAGATG	GCATATCGCT	-----	1400
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1500
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1500
M_caribense_INISAV_LBM-30	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	AAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
M_caribense_INISAV_LBM-41	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	AAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
M_caribense_INISAV_LBM-42	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	AAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
M_caribense_ARSEF_5197	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	AAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1500
Metarhizium_sp_EAMa_00/09-Su	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	GAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
Metarhizium_sp_EAMa_01/16-Su	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	GAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
Metarhizium_sp_EAMa_01/94-Su	GCAGGTGCCA	TCCGGCGACA	CAACCTGGAT	CGGGGGAGGC	TAAGGGCCGA	GAGGTCTATG	CTAATCCCGA	GGGGAGCCCT	ATGAGAGTGA	TCTTGTAATG	-----	1500
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1600
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1600
M_caribense_INISAV_LBM-30	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
M_caribense_INISAV_LBM-41	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
M_caribense_INISAV_LBM-42	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
M_caribense_ARSEF_5197	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1600
Metarhizium_sp_EAMa_00/09-Su	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
Metarhizium_sp_EAMa_01/16-Su	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600
Metarhizium_sp_EAMa_01/94-Su	GCCCCTGTAG	AGCGCGGAAA	GGTGTGGGCA	ACTCTCGAAT	ATTTCGAGTT	GCTTAAGGGA	CGTGCCAGGC	CCACGGGAAA	CCGTGCCGTG	TGCGAAGGAC	-----	1600

Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1700
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1700
<i>M_caribense</i> _INISAV_LBM-30	CTGCAGTCTG	GATCACATGG	AAAAGCGTTT	GAGTAGAGGG	GGGAAATACC	CTTTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
<i>M_caribense</i> _INISAV_LBM-41	CTGCAGTCTG	GATCACATGG	AAAAGCGTTT	GAGTAGAGGG	GGGAAATACC	CTTTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
<i>M_caribense</i> _INISAV_LBM-42	CTGCAGTCTG	GATCACATGG	AAAAGCGTTT	GAGTAGAGGG	GGGAAATACC	CTTTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
<i>M_caribense</i> _ARSEF_5197	CTGCAGTCTG	GATCACATGG	AAAAGCGTTT	GAGTAGAGGG	GGGAAATACC	CTTTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1700
<i>Metarhizium</i> _sp_EAMa_00/09-Su	CTGCAGTCTG	GATCACATGG	AAGAGCGTTT	GAGCAGAGGG	GGGAAATACC	CTCTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
<i>Metarhizium</i> _sp_EAMa_01/16-Su	CTGCAGTCTG	GATCACATGG	AAGAGCGTTT	GAGCAGAGGG	GGGAAATACC	CTCTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
<i>Metarhizium</i> _sp_EAMa_01/94-Su	CTGCAGTCTG	GATCACATGG	AAGAGCGTTT	GAGCAGAGGG	GGGAAATACC	CTCTGCGAGC	TTAGGTACTG	ATCACATATG	TAGGGGATGA	AGTATCAACT	1700
Meta28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1755
Mcar28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1755
<i>M_caribense</i> _INISAV_LBM-30	GCCTAGCCGG	AGTTGGGCTA	TGATGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
<i>M_caribense</i> _INISAV_LBM-41	GCCTAGCCGG	AGTTGGGCTA	TGATGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
<i>M_caribense</i> _INISAV_LBM-42	GCCTAGCCGG	AGTTGGGCTA	TGATGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
<i>M_caribense</i> _ARSEF_5197	GCCTAGCCGG	AGTTGGGCTA	TGATGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
Mmaj28Si4long-F1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1755
<i>Metarhizium</i> _sp_EAMa_00/09-Su	GCCTAGCCGG	AGTTGGGCTA	TGAGGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
<i>Metarhizium</i> _sp_EAMa_01/16-Su	GCCTAGCCGG	AGTTGGGCTA	TGAGGGCACT	GATAATTGGG	TGTGTGATCG	CCCCG	1755				
<i>Metarhizium</i> _sp_EAMa_01/94-Su	GC-----	-----	-----	-----	-----	-----	1755				