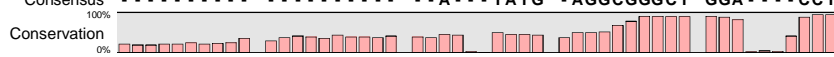
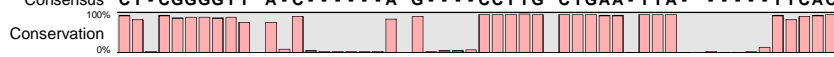


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KX118413.1_Alternaria_alternata_strain_BHU-LMMT02
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15
KX118427.1_Alternaria_solani_strain_BHU-LMMT16
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42
KX179482.1_Alternaria_solani_strain_BHU-LMMT39
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25
JQ070079.1
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45
KX179481.1_Alternaria_solani_strain_BHU-LMMT38
KX179487.1_Alternaria_sp._2_MM-2016
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31
KX179490.1_Alternaria_sp._3_MM-2016
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34
KX179486.1_Alternaria_sp._1_MM-2016
KX179491.1_Alternaria_sp._4_MM-2016
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33
KX139150.1_Alternaria_solani_strain_BHU-LMMT17
KX139151.1_Alternaria_solani_strain_BHU-LMMT18
KX139162.1_Alternaria_porri_strain_BHU-LMMT29
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24
KX139161.1_Alternaria_porri_strain_BHU-LMMT28
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23
Consensus
Conservation

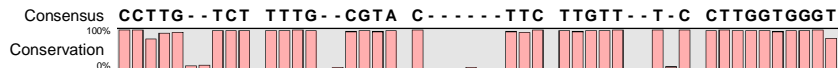
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KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	-----	-----	-----	---GGCTT GGA---CCT 10	
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	-----	-----	-----	---GGGGCT GGA---CCT 13	
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	-----	-----	-----	---GGGCT GGA---CCT 11	
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	-----	-----	-----	---GGGCT GGA---CCT 11	
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	-----	-----	-----	---GGCT GGA---CCT 10	
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	-----	-----	-----	---GGGCT GGA---CCT 11	
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	-----	-----	-----	---GGCT GGA---CCT 10	
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	-----	-----	-----	---GGGCT GGA---CCT 11	
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	-----	-----	-----	---GGGCT GGA---CCT 11	
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	-----	-----	-----	---GGGGCT GGA---CCT 12	
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	-----	-----	-----	---GGGGCT GGA---CCT 12	
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	-----	-----	-----	---GGCT GGA---CCT 10	
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	-----	-----	-----	---GGGGCT GGA---CCT 12	
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	-----	-----	-----	---GGGGCT GGA---CCT 12	
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	-----	-----	-----	---GGGGCT GGA---CCT 12	
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	-----	-----	-----	---GGGGGCT GGA---CCT 13	
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	-----	-----	-----	-----	GGA---CCT 6
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	-----	-----	-----	---C--TCAT GAG--GGGGCT GGA---CCT 20	
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	-----	-----	-----	---GGA--CCCT GAG--GGGGCT GGA---CCT 22	
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	-----	-----	-----	---GAAA--ATAT GAGGGGGGCT GGA---CCT 25	
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	-----	-----	-----	---T--TAAT GAG--GGGGCT GGA---CCT 20	
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	-----	-----	-----	---AAA TCAA--ATAT GAGGGGGGCT GGA---CCT 27	
JQ070079.1	NCE GGGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 50				
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	---GGGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 42				
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	---GGGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 42				
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	CCTGCGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 60				
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	CCTGCGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 59				
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	-----	-----	-----	---ATCATTACA CAAA--TATG AAGGGGGGCT GGA---ATCT 34	
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	-----	-----	-----	---CCTCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 35	
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	-----	-----	-----	---GG GTTTTGTGTC ATGG--TATG A--GGGGGGCT GGA---CCT 35	
KX179487.1_Alternaria_sp._2_MM-2016	CCCAAGT GCG ACTC--TTACA CAA--TATG A--GGGGGGCT GGA---ACCT 45				
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	-----	-----	-----	---AATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 35	
KX179490.1_Alternaria_sp._3_MM-2016	CCTGCGGGGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 75				
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	CATTGCC-TG CAAAGCTTA CCAA--TATG A--GGGGGGCT GGA---CCT 47				
KX179486.1_Alternaria_sp._1_MM-2016	GTTTGCAATG CGA-GTCTTA CCAA--TATG A--GGGGGGCT GGA---ACCT 44				
KX179491.1_Alternaria_sp._4_MM-2016	CCTGCGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGA---ACCT 82				
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	CCTGCGGAGG GATCATTACA C-AA--TATG AAGGCAGGCT GAA---ATCT 85				
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	-----	-----	-----	---AA--ATCT 6	
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	-----	-----	-----	---AGG GATCATTACA CAAA--TATG AAGGGGGGCT GGC---ACCT 38	
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	-----	-----	-----	---ATCATTACA CAAA--TATG AAGGGGGGCT GGC---ACCT 34	
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	-----	-----	-----	-----	GGC---ACCT 13
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	CCTGCGGAGG GATCATTACA CAAAAATATG AAGGGGGGCT GGC---ACCT 97				
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	CCTGCGGAGG GATCATTACA CAAA--TATG AAGGGGGGCT GGC---ACCT 94				
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	-----	-----	-----	---ATCATTACA CAA--TATG AAAGGGGGCT GGACTCACCT 36	
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	C -----GG GATCATTACA CAA--TATG AAAGGGGGCT GGACTCACCT 42				
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	-----	-----	-----	---TTGCGAG GATCTT-- --AAAGTATG A--GGGGGGCT GGA---CCT 36	
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	CCTGCGGAAG GATCATTACC TAGAGTTGTA ----- GGCT ----- TTGCCT 56				
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	-----	-----	-----	-----	
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	-----	-----	-----	-----	
Consensus	-----	-----	-----	---A--TATG A--GGGGGGCT GGA---CCT	



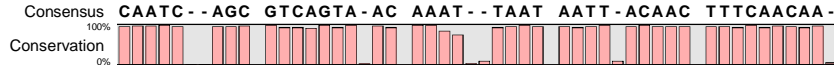
	120	140	
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 41
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 44
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 42
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 42
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 41
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 42
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 41
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 42
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 42
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 43
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 43
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 41
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 43
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 43
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 43
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 44
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 37
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 51
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 53
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 56
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 51
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 58
JQ070079.1	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 81
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTAA AAATTTTCAC 79
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 73
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	CT-CGGGGTT	AAC	G---CCTTG CTGAA-TTA-----TTCAC 92
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	CT-CGGGGTT	A-C	GG-GCCTTG CTGAA-TTA-----TTCAC 92
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	CT-CGGGGTT	-	-ACAGCCTTG CTGAA-TTA-----TTCAC 65
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 66
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 66
KX179487.1_Alternaria_sp._2_MM-2016	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 76
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 66
KX179490.1_Alternaria_sp._3_MM-2016	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 106
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 78
KX179486.1_Alternaria_sp._1_MM-2016	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 75
KX179491.1_Alternaria_sp._4_MM-2016	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC 113
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	CT-CGAGACG	A-C	G---CCTTG CTGAA-TTA-----TTCAC 116
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	CT-CGAGACG	A-C	G---CCTTG CTGAA-TTA-----TTCAC 37
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	CT-CGGGGTG	GCC	G---CCTTG CTGAA-TTA-----TTC-AC 70
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	CT-CGGGGTG	GCC	G---CCTTG CTGAA-TTA-----TTCAC 67
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	CC-CGGGGTG	GCC	G---CCTTG CTGAA-TTA-----TTCAC 46
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	CC-CGGGGTG	GCC	G---CCTTG CTGAA-TTA-----TTCAC 130
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	CC-CGGGGTG	GCC	G---CCTTG CTGAA-TTA-----TTCAC 127
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	CAGCAGCATC	TGCTGTTGGG	GCCAGCCTTG CTGAA-TTA-----TTCAC 79
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	CAGCAGCATC	TGCTGTTGGG	GCCAGCCTTG CTGAA-TTA-----TTCAC 85
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	CT-CAGGGTT	-----AA	G---CCTTG CTGAA-TTA-----TTCAC 66
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	-----GCT	ATCT-----	-----CTTA-----C 69
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT23	-----	-----A	CAGGTCTGTG ATGCCCTTAG ATGTTCTGGG 31
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT22	-----	-----	-----
Consensus	CT-CGGGGTT	A-C	G---CCTTG CTGAA-TTA-----TTCAC



	160	180	200												
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	78		
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	81		
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	79		
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	79		
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	78		
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	79		
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	78		
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	79		
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	79		
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	80		
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	80		
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	78		
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	80		
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	80		
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	CCTTG	-TCT	TTTG	-CGTA	CCGGGAT	TTC	TTGTT	-T	C	CCTGGT	GGGT	86			
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	81		
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	74		
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	CCTTG	-TCT	TTTGAAC	CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	90		
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	90		
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	93		
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	88		
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	95		
JQ070079.1	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	118		
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	116		
KX179479.1_Alternaria_alternata_strain_BHU-LMMT38	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	110		
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	129		
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	129		
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	CCTTGGG	TCT	TTTG	-CGTA	C	-----	TTC	T-GTT	-T	C	CCTGGT	GGGT	103		
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	103		
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	103		
KX179487.1_Alternaria_sp._2_MM-2016	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	113		
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	104		
KX179490.1_Alternaria_sp._3_MM-2016	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	143		
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	115		
KX179486.1_Alternaria_sp._1_MM-2016	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	112		
KX179491.1_Alternaria_sp._4_MM-2016	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	150		
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	CCGTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	153		
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	CCGTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	74		
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	CCG	-TGTCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	107		
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	CCGGG	TGTCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	106		
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	CCG	-TGTCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	84		
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	CCGTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	167		
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	CCGTG	-TCT	TTTG	-GG	-	C	-----	T	C	TTGTT	-T	C	CCTGGT	GGGC	161
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	CCGTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	116		
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	CCGTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGC	122		
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	CCTTG	-TCT	TTTG	-CGTA	C	-----	TTC	TTGTT	-T	C	CCTGGT	GGGT	103		
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	CCATG	-TCT	TTTG	-AGTA	C	-----	-	C	TTCGT	-TTC	CTCGGC	GGGT	105		
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT23	CCGCACGGGC	GCTACACTGA	CAGAGCCAAC	GAGTCTTTT	TTTTCAACGA								81		
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT22															




	260	280	300								
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 162
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 165
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 162
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 162
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 164
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 164
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 160
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 162
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 162
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 170
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 163
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 156
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 172
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 172
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 175
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 170
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT29	CAATC	- GC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 179
JQ070075.1	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 200
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 198
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 192
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 214
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 211
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 185
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 185
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 185
KX179487.1_Alternaria_sp._2_MM-2016	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 195
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 186
KX179490.1_Alternaria_sp._3_MM-2016	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 225
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 197
KX179486.1_Alternaria_sp._1_MM-2016	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 195
KX179491.1_Alternaria_sp._4_MM-2016	CAATC	- AGC	GTCAGTA	- AC	AAAT	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 232
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	AAATC	- AGC	GTCAGTA	- AC	AAAAAA	TAAT	AATT	- ACAAC	TTTCAA	CAA	- 239
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	AAATC	- AGC	GTCAGTA	- AC	AAAA	- TAAT	AATT	- ACAAC	TTTCAA	CAA	- 158
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	CAATC	- AGC	GTCAGTA	- AC	AA	T - GTAAT	AATT	- ACAAC	TTTCAA	CAA	- 192
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	CAATC	- AGC	GTCAGTA	- AC	AA	T - GTAAT	AATT	- ACAAC	TTTCAA	CAA	- 193
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	CAATC	- AGC	GTCAGTA	- AC	AA	T - GCAAT	AATTTACAAC		TTTCAA	CAA	- 170
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	CAATC	- AGC	GTCAGTA	- AC	AA	T - GTAAT	AATTTACAAC		TTTCAA	CAA	- 253
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	CAATC	- AGC	GTCAGTA	- AC	AA	T - GTAAT	AATTTACAAC		TTTCAA	CAA	- 247
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	CAATC	- AGC	GTCAGTA	- AC	AA	CA - TAAT	AATT	- ACAAC	TTTCAA	CAA	- 199
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	CAATC	- AGC	GTCAGTA	- AC	AA	CA - TAAT	AATT	- ACAAC	TTTCAA	CAA	- 205
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	CAATC	- T - T	GATGGTACAC		AAAT	- TAAT	AATT	- ACAAC	TTGC	- - CTT	184
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	CAATC	- AGC	GTCAGTA	- AC	AA	CTTTAAT	AGTT	- ACAAC	TTTCAA	CAA	- 189
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	CCTTTG	TACC	GGAGGAAAAG		AA	CCAACAG	GGATTGCC	- - - -	CTAGTAA		176
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	CAATA	- - AGC	GGAGGAAAAG		AA	CCAACAG	GGATTGCC	- - - -	CTAGTAA		48

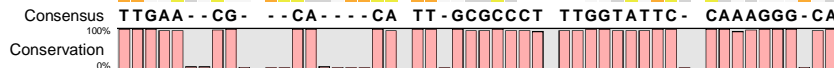


KX118413.1_Alternaria_alternata_strain_BHU-LMMT02 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 202
 KX118415.1_Alternaria_alternata_strain_BHU-LMMT04 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 205
 KX118418.1_Alternaria_alternata_strain_BHU-LMMT07 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118419.1_Alternaria_alternata_strain_BHU-LMMT08 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 202
 KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 202
 KX118427.1_Alternaria_solani_strain_BHU-LMMT16 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118414.1_Alternaria_alternata_strain_BHU-LMMT03 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 204
 KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 204
 KX118412.1_Alternaria_alternata_strain_BHU-LMMT01 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 200
 KX118417.1_Alternaria_alternata_strain_BHU-LMMT06 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 202
 KX118420.1_Alternaria_alternata_strain_BHU-LMMT09 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 202
 KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 210
 KX179478.1_Alternaria_alternata_strain_BHU-LMMT35 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 203
 KX118416.1_Alternaria_alternata_strain_BHU-LMMT05 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 196
 KX179483.1_Alternaria_alternata_strain_BHU-LMMT40 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 212
 KX179484.1_Alternaria_alternata_strain_BHU-LMMT41 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 212
 KX179485.1_Alternaria_alternata_strain_BHU-LMMT42 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 215
 KX179482.1_Alternaria_solani_strain_BHU-LMMT39 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 210
 KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 219
 JQ070079.1 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 240
 KX179480.1_Alternaria_alternata_strain_BHU-LMMT37 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 238
 KX179479.1_Alternaria_alternata_strain_BHU-LMMT36 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 232
 KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 254
 KX179489.1_Alternaria_alternata_strain_BHU-LMMT46 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 251
 KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGACCA**-GA **ACGCAGCGAA** 227
 KX179488.1_Alternaria_alternata_strain_BHU-LMMT45 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 225
 KX179481.1_Alternaria_solani_strain_BHU-LMMT38 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 225
 KX179487.1_Alternaria_sp._2_MM-2016 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 235
 KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 226
 KX179490.1_Alternaria_sp._3_MM-2016 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 265
 KX179477.1_Alternaria_alternata_strain_BHU-LMMT34 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 238
 KX179486.1_Alternaria_sp._1_MM-2016 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 235
 KX179491.1_Alternaria_sp._4_MM-2016 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 272
 KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 279
 KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 198
 KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 232
 KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 233
 KX139150.1_Alternaria_solani_strain_BHU-LMMT17 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 210
 KX139151.1_Alternaria_solani_strain_BHU-LMMT18 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGAAGA**-AA **ACGCAGCGAA** 295
 KX139162.1_Alternaria_porri_strain_BHU-LMMT29 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGAAGA**-A - **CGCAGCGAA** 287
 KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 239
 KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 245
 KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24 **TGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCTGCGA** - - - **TTA** - - **A-AA** **ACACACCGAAA** 224
 KX139161.1_Alternaria_porri_strain_BHU-LMMT28 **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA** 229
 KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22 **GGCGGAGTGA** **AGCGGCAACA** **GC** - - **TCAAAT** **TTGAAATCTG** **GCTCTTTTAG** 98
 KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23 **GGCGGAGTGA** **AGCGGCAACA** **GCCCTCAAAT** **TTGAAATCTG** **GCTCTTTTAG** 98
 Consensus **CGGA** - - - **TCT** **CTTGGTT** - **CT** **GGCATCGA** - - - **TGA** - - **A-GA** **ACGCAGCGAA**



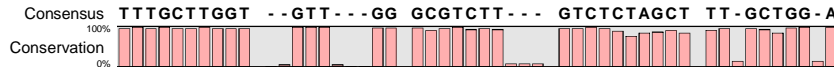
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KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 252
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 249
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 249
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 251
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 251
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 247
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 249
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 249
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 257
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 250
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 243
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 259
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 259
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 262
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 257
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 266
JQ070079.1	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 287
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 285
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 279
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 301
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 298
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 274
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 272
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 272
KX179487.1_Alternaria_sp._2_MM-2016	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 282
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 273
KX179490.1_Alternaria_sp._3_MM-2016	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 312
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 286
KX179486.1_Alternaria_sp._1_MM-2016	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 282
KX179491.1_Alternaria_sp._4_MM-2016	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 319
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 326
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 245
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 279
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 280
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	AGG TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 259
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 342
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 334
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 286
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 292
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	A - - TGGGATA	AGTTCGTGTGA	ATTGCAGAAT	TCT - CGAATC ATCGAA - TCT 270
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT 276
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	AG - TCCGA - -	-GT - -TGTAA	TTTGCAGAGG	GCG - - - - - C TTTGG - - - CT 259
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	AG - TCCGA - -	-GT - -TGTAA	TTTGCAGAGG	GCG - - - - - C TTTGG - - - CT 133
Consensus	A - - TGGGATA	AGTAGTGTGA	ATTGCAGAAT	TCAGTGAATC ATCGAA - TCT
Conservation				

KX118413.1_Alternaria_alternata_strain_BHU-LMMT02 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 287
 KX118415.1_Alternaria_alternata_strain_BHU-LMMT04 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 290
 KX118418.1_Alternaria_alternata_strain_BHU-LMMT07 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118419.1_Alternaria_alternata_strain_BHU-LMMT08 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 287
 KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 287
 KX118427.1_Alternaria_solani_strain_BHU-LMMT16 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118414.1_Alternaria_alternata_strain_BHU-LMMT03 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 289
 KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 289
 KX118412.1_Alternaria_alternata_strain_BHU-LMMT01 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 285
 KX118417.1_Alternaria_alternata_strain_BHU-LMMT06 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 287
 KX118420.1_Alternaria_alternata_strain_BHU-LMMT09 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 287
 KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 295
 KX179478.1_Alternaria_alternata_strain_BHU-LMMT35 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 288
 KX118416.1_Alternaria_alternata_strain_BHU-LMMT05 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 281
 KX179483.1_Alternaria_alternata_strain_BHU-LMMT40 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 297
 KX179484.1_Alternaria_alternata_strain_BHU-LMMT41 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 297
 KX179485.1_Alternaria_alternata_strain_BHU-LMMT42 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 300
 KX179482.1_Alternaria_solani_strain_BHU-LMMT39 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 295
 KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 304
 JQ070079.1 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 325
 KX179480.1_Alternaria_alternata_strain_BHU-LMMT37 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 323
 KX179479.1_Alternaria_alternata_strain_BHU-LMMT36 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 317
 KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 339
 KX179489.1_Alternaria_alternata_strain_BHU-LMMT46 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 336
 KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 312
 KX179488.1_Alternaria_alternata_strain_BHU-LMMT45 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 310
 KX179481.1_Alternaria_solani_strain_BHU-LMMT38 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 310
 KX179487.1_Alternaria_sp._2_MM-2016 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 320
 KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31 TTGAA -CG - -CAAA - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 313
 KX179490.1_Alternaria_sp._3_MM-2016 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 350
 KX179477.1_Alternaria_alternata_strain_BHU-LMMT34 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 324
 KX179486.1_Alternaria_sp._1_MM-2016 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 320
 KX179491.1_Alternaria_sp._4_MM-2016 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 357
 KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 364
 KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 284
 KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 317
 KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33 TTGAAAAGCG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 320
 KX139150.1_Alternaria_solani_strain_BHU-LMMT17 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 297
 KX139151.1_Alternaria_solani_strain_BHU-LMMT18 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 380
 KX139162.1_Alternaria_porri_strain_BHU-LMMT29 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 372
 KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 324
 KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 330
 KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24 TTGAA -CG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CAAAGGG-CA 309
 KX139161.1_Alternaria_porri_strain_BHU-LMMT28 TTGAACGGG - -CA - - -CA TT -GCGCCCT TTGGTATTC -CATGGGG-CA 316
 KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22 TTGGCAGCGG TCCAAGTTC TTGGAACA - - -GGAAGTCA CAGAGGGTGA 305
 KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23 TTGGCAGCGG TCCAAGTTC TTGGAACA - - -GGAAGTCA CAGAGGGTGA 179



	460	480	500		
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 319	
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 322	
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 320	
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 320	
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 319	
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 320	
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 319	
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 320	
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 320	
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 321	
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 321	
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 317	
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 319	
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 319	
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 327	
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 320	
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 313	
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 329	
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 329	
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 332	
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 327	
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 336	
JQ070079.1	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 357	
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 355	
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 349	
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 372	
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 368	
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 344	
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 342	
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 342	
KX179487.1_Alternaria_sp._2_MM-2016	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 352	
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 345	
KX179490.1_Alternaria_sp._3_MM-2016	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 382	
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAAAGC 357	
KX179486.1_Alternaria_sp._1_MM-2016	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 352	
KX179491.1_Alternaria_sp._4_MM-2016	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 389	
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 396	
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 316	
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 349	
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 352	
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 329	
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 412	
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 404	
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC 356	
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	G - TCAA - GC 362	
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	TG - CCTGTT	CAAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GA 341	
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	T - TCAA - GC 348	
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	GAA TCCCGTA	CGTGGTCGCT	GGCTATTGCC	G TGTAAAGCC	CCTTCGACGA 355
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	GAA TCCCGTA	CGTGGTCGCT	GGCTATTGCC	G TGTAAAGCC	CCTTCGACGA 229
Consensus	TG - CCTGTT	CGAG - - - C	GTCATTTG - - - TA - - - CC	C - TCAA - GC	
Conservation					

KX118413.1_Alternaria_alternata_strain_BHU-LMMT02 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 359
 KX118415.1_Alternaria_alternata_strain_BHU-LMMT04 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 362
 KX118418.1_Alternaria_alternata_strain_BHU-LMMT07 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118419.1_Alternaria_alternata_strain_BHU-LMMT08 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 359
 KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 359
 KX118427.1_Alternaria_solani_strain_BHU-LMMT16 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118414.1_Alternaria_alternata_strain_BHU-LMMT03 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 361
 KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 361
 KX118412.1_Alternaria_alternata_strain_BHU-LMMT01 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 357
 KX118417.1_Alternaria_alternata_strain_BHU-LMMT06 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 359
 KX118420.1_Alternaria_alternata_strain_BHU-LMMT09 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 359
 KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 367
 KX179478.1_Alternaria_alternata_strain_BHU-LMMT35 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 360
 KX118416.1_Alternaria_alternata_strain_BHU-LMMT05 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 353
 KX179483.1_Alternaria_alternata_strain_BHU-LMMT40 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 369
 KX179484.1_Alternaria_alternata_strain_BHU-LMMT41 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 369
 KX179485.1_Alternaria_alternata_strain_BHU-LMMT42 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 372
 KX179482.1_Alternaria_solani_strain_BHU-LMMT39 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 367
 KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 376
 JQ070079.1 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 397
 KX179480.1_Alternaria_alternata_strain_BHU-LMMT37 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 395
 KX179479.1_Alternaria_alternata_strain_BHU-LMMT36 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 389
 KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 412
 KX179489.1_Alternaria_alternata_strain_BHU-LMMT46 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 408
 KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30 TTTGCTTGGT TTGTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 386
 KX179488.1_Alternaria_alternata_strain_BHU-LMMT45 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 382
 KX179481.1_Alternaria_solani_strain_BHU-LMMT38 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 382
 KX179487.1_Alternaria_sp._2_MM-2016 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 392
 KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 385
 KX179490.1_Alternaria_sp._3_MM-2016 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 422
 KX179477.1_Alternaria_alternata_strain_BHU-LMMT34 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 397
 KX179486.1_Alternaria_sp._1_MM-2016 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 392
 KX179491.1_Alternaria_sp._4_MM-2016 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 429
 KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TTTGCTGG-A 437
 KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCTGG-A 355
 KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT TT-GCGGGGA 388
 KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33 TTTGCTTGGT --GTT--GG GCGTCTT TTTT GTCACCCCTT -GCGGGGA 396
 KX139150.1_Alternaria_solani_strain_BHU-LMMT17 TTTGCTTGGT --GTT--GG GCGTCTT TTTT GTCT--CTCC TT-CGGGG 370
 KX139151.1_Alternaria_solani_strain_BHU-LMMT18 TTTGCTTGGT --GTTGGGG GCGTCTT TTTT GTCT--CC CTTGC-GGGA 456
 KX139162.1_Alternaria_porri_strain_BHU-LMMT29 TTTGCTTGGT --GTT--GG --GTCTTTT GTCTC--CC CTTGC-GGGA 441
 KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT --TTTGTGG-A 395
 KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTAGCT --TTTGTGG-A 401
 KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24 TTTGCTTGGT --GTT--GG GCGTCTT --GTCCTACT TTTG--GGGA 381
 KX139161.1_Alternaria_porri_strain_BHU-LMMT28 TTTGCTTGGT --GTT--GG GTGTTT--GTCCT--GCC TCTGGCGCA 387
 KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22 GTCGAGT-- --TGTTT--GG GAAT----- -GC--AGCT CTAATGGGA 389
 KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23 GTCGAGT-- --TGTTT--GG GAAT----- -GC--AGCT CTAATGGGA 263



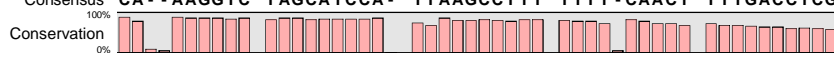
	560	580	600	
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
JQ070079.1	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179487.1_Alternaria_sp._2_MM-2016	GACTCG	CTT-AAAG	TAATTGGC	CAACT
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179490.1_Alternaria_sp._3_MM-2016	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179486.1_Alternaria_sp._1_MM-2016	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX179491.1_Alternaria_sp._4_MM-2016	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACTGCGCT
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	GACTCG	CTT-AAAG	TCATTGGC	AGCCGGC CTACT
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	AACCCA	CTT-AGAA	AAATTGGC	AACCCGGC CTAAT
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	GACTCG	CTT-AAAA	CAATTGGC	AGCCGGC GTATT
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	GGTACATTTT	TTCTAAAGCT	AAATATTGGC	CAGAGACCGA TAGCGCACAA
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	GGTACATTTT	TTCTAAAGCT	AAATATTGGC	CAGAGACCGA TAGCGCACAA
Consensus	GACTCG	CTT-AAAG	TAATTGGC	AGCCGGC CTACT



KX118413.1_Alternaria_alternata_strain_BHU-LMMT02 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 430
 KX118415.1_Alternaria_alternata_strain_BHU-LMMT04 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 433
 KX118418.1_Alternaria_alternata_strain_BHU-LMMT07 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118419.1_Alternaria_alternata_strain_BHU-LMMT08 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 430
 KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 430
 KX118427.1_Alternaria_solani_strain_BHU-LMMT16 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118414.1_Alternaria_alternata_strain_BHU-LMMT03 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 432
 KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 432
 KX118412.1_Alternaria_alternata_strain_BHU-LMMT01 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 428
 KX118417.1_Alternaria_alternata_strain_BHU-LMMT06 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 430
 KX118420.1_Alternaria_alternata_strain_BHU-LMMT09 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 430
 KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 438
 KX179478.1_Alternaria_alternata_strain_BHU-LMMT35 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 431
 KX118416.1_Alternaria_alternata_strain_BHU-LMMT05 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 424
 KX179483.1_Alternaria_alternata_strain_BHU-LMMT40 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 440
 KX179484.1_Alternaria_alternata_strain_BHU-LMMT41 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 440
 KX179485.1_Alternaria_alternata_strain_BHU-LMMT42 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 443
 KX179482.1_Alternaria_solani_strain_BHU-LMMT39 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTCGCAC T CT - CTATCAG 440
 KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 447
 JQ070079.1 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 468
 KX179480.1_Alternaria_alternata_strain_BHU-LMMT37 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 466
 KX179479.1_Alternaria_alternata_strain_BHU-LMMT36 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 460
 KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 483
 KX179489.1_Alternaria_alternata_strain_BHU-LMMT46 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 479
 KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 457
 KX179488.1_Alternaria_alternata_strain_BHU-LMMT45 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 453
 KX179481.1_Alternaria_solani_strain_BHU-LMMT38 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 453
 KX179487.1_Alternaria_sp._2_MM-2016 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 455
 KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 456
 KX179490.1_Alternaria_sp._3_MM-2016 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 493
 KX179477.1_Alternaria_alternata_strain_BHU-LMMT34 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 468
 KX179486.1_Alternaria_sp._1_MM-2016 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 463
 KX179491.1_Alternaria_sp._4_MM-2016 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG 500
 KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CT - - - - 503
 KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTCGCGCTCT CT - TAAACCAG 428
 KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32 - - - - TTTCTGGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CTTCCAG 469
 KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CTTCCAG 467
 KX139150.1_Alternaria_solani_strain_BHU-LMMT17 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CTTCCAG 441
 KX139151.1_Alternaria_solani_strain_BHU-LMMT18 - - - - GGTTT CG -- GAG - C G - 503
 KX139162.1_Alternaria_porri_strain_BHU-LMMT29 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTCGCGCT - - - - - - - - - - - - - - - - 503
 KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CTTCCAG 466
 KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27 - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCGCT CT - CTTCCAG 472
 KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24 - - - - GGTTG CG -- AAATC GCACCACAA - GGCTGACACT C - - CAA - CAG 453
 KX139161.1_Alternaria_porri_strain_BHU-LMMT28 - - - - GATTTT CG -- GAG - C GCAGTACA - - - TCTGCGCT TTGCACTCA - 459
 KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22 - GTAGAGTGAT CGAAAGATGA AAAGCACTTT GAAAAGAGAG - - TCAAACAG 487
 KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23 - GTAGAGTGAT CGAAAGATGA AAAGCACTTT GAAAAGAGAG GGTCAAACAG 363
 Consensus - - - - GGTTT CG -- GAG - C GCAGCACAA - GTC - - GCAC T CT - CTATCAG



	660	680	700			
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	476
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	479
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	476
KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	476
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	478
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	478
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	474
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	476
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	476
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	484
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	477
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	470
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	486
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	486
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	489
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	486
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	493
JQ070079.1	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAAC	-----	503
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	T-----	503
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTTCAACT	TTTGAC	--- 503
KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20	CA - - AAGGTC	TAGCATCCA -	TTA-----	-----	-----	503
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	CA - - AAGGTC	TAGCATCCA -	TTAAGCC--	-----	-----	503
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	502
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	499
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	499
KX179487.1_Alternaria_sp._2_MM-2016	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	501
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	501
KX179490.1_Alternaria_sp._3_MM-2016	CA - - AAGGTC	TA-----	-----	-----	-----	503
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAAC	-----	503
KX179486.1_Alternaria_sp._1_MM-2016	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTTCAACT	TTT-----	503
KX179491.1_Alternaria_sp._4_MM-2016	CA - A-----	-----	-----	-----	-----	503
KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21	-----	-----	-----	-----	-----	503
KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19	CA - - AAGGTC	-AGTATCCAC	AAAAGCCTTT	TTTT - CAACT	TTTGACCTCG	474
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	CCCCAAGGTC	TAGCATCCA -	CCAAGCCTTT	TTTT - C---	-----	503
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	CCCCAAGGTC	TAGCATCCA -	ACAAGCCTTT	TTTT - CAA--	-----	503
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	CCCCAAGGTC	TAGCATCCA -	CCAAGCCTTT	TTTTCAACT	TTTGACCTCG	490
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	-----	-----	-----	-----	-----	503
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	-----	-----	-----	-----	-----	503
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	CC - - AAGGTC	-AGCATCCA -	TAAAGCCTTT	TTTT - CAACT	TTT-----	503
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	CC - - AAGGTC	-AGCATCCA -	TAAAGCCTTT	TTTT - CA--	-----	503
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	--GTAAGGTC	TAGCATCCA -	TAAATCCGTTT	TGATAC - - CT	TTTGACGTTT	499
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	--TAACGAC	GA - CATCCAA	AAAGTACATT	TTTTACACT	TATGACCT--	503
KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22	CAC - GTGAAA	TTGTTGA - - -	-----	-----	-----	503
KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23	CAC - GTGAAA	TTGTTGAAAG	GGAAGCGCTT	GCAGCCAGAC	TT - GCTTACA	411
Consensus	CA - - AAGGTC	TAGCATCCA -	TTAAGCCTTT	TTTT - CAACT	TTTGACCTCG	



KX118413.1_Alternaria_alternata_strain_BHU-LMMT02 G-- -ATCAGG TAGGGATACC CGCTGAACTT 503
 KX118415.1_Alternaria_alternata_strain_BHU-LMMT04 G-- -ATCAGG TAGGGATACC CGCTGAA 503
 KX118418.1_Alternaria_alternata_strain_BHU-LMMT07 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118419.1_Alternaria_alternata_strain_BHU-LMMT08 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10 G-- -ATCAGG TAGGGATACC CGCTGAACTT 503
 KX118425.1_Alternaria_brassicicola_strain_BHU-LMMT14 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118426.1_Alternaria_brassicicola_strain_BHU-LMMT15 G-- -ATCAGG TAGGGATACC CGCTGAACTT 503
 KX118427.1_Alternaria_solani_strain_BHU-LMMT16 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118414.1_Alternaria_alternata_strain_BHU-LMMT03 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118412.1_Alternaria_alternata_strain_BHU-LMMT01 G-- -ATCAGG TAGGGATACC CGCTGAACTT AA 503
 KX118417.1_Alternaria_alternata_strain_BHU-LMMT06 G-- -ATCAGG TAGGGATACC CGCTGAACTT 503
 KX118420.1_Alternaria_alternata_strain_BHU-LMMT09 G-- -ATCAGG TAGGGATACC CGCTGAACTT 503
 KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11 G-- -ATCAGG TAGGGATACC CG 503
 KX179478.1_Alternaria_alternata_strain_BHU-LMMT35 G-- -ATCAGG TAGGGATACC CGCTGAACT- 503
 KX118416.1_Alternaria_alternata_strain_BHU-LMMT05 G-- -ATCAGG TAGGGATACC CGCTGAACTT AAGCAT 503
 KX179483.1_Alternaria_alternata_strain_BHU-LMMT40 G-- -ATCAGG TAGGGATACC 503
 KX179484.1_Alternaria_alternata_strain_BHU-LMMT41 G-- -ATCAGG TAGGGATACC 503
 KX179485.1_Alternaria_alternata_strain_BHU-LMMT42 G-- -ATCAGG TAGGGAT 503
 KX179482.1_Alternaria_solani_strain_BHU-LMMT39 G-- -ATCAGG TAGGGATACC 503
 KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25 GGGGATCAGG 503
 JQ070079.1 503
 KX179480.1_Alternaria_alternata_strain_BHU-LMMT37 503
 KX179479.1_Alternaria_alternata_strain_BHU-LMMT36 503
 KX139153.1_Alternaria_brassicicola_strain_BHU-LMMT20 503
 KX179489.1_Alternaria_alternata_strain_BHU-LMMT46 503
 KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30 G- - - - - 503
 KX179488.1_Alternaria_alternata_strain_BHU-LMMT45 G-- -ATC- - - - - 503
 KX179481.1_Alternaria_solani_strain_BHU-LMMT38 G-- -ATC- - - - - 503
 KX179487.1_Alternaria_sp._2_MM-2016 G-- -A - - - - - 503
 KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31 G-- -A - - - - - 503
 KX179490.1_Alternaria_sp._3_MM-2016 503
 KX179477.1_Alternaria_alternata_strain_BHU-LMMT34 503
 KX179486.1_Alternaria_sp._1_MM-2016 503
 KX179491.1_Alternaria_sp._4_MM-2016 503
 KX139154.1_Alternaria_brassicicola_strain_BHU-LMMT21 503
 KX139152.1_Alternaria_brassicicola_strain_BHU-LMMT19 G-- -ATCAGG TAGGGATACC CGCTGAACTT AA 503
 KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32 503
 KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33 503
 KX139150.1_Alternaria_solani_strain_BHU-LMMT17 G-- -ATCAGG TAGGGATACC 503
 KX139151.1_Alternaria_solani_strain_BHU-LMMT18 503
 KX139162.1_Alternaria_porri_strain_BHU-LMMT29 503
 KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26 503
 KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27 503
 KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24 G-- -ATC- - - - - 503
 KX139161.1_Alternaria_porri_strain_BHU-LMMT28 503
 KX139155.1_Alternaria_brassicicola_strain_BHU-LMMT22 503
 KX139156.1_Alternaria_brassicicola_strain_BHU-LMMT23 GTTGCTCATC CGGGCTTTTG CCCGGTGAC TCTTCTGTAG GCAGGCCAGC 461
 Consensus G-- -ATCAGG



	760	780	
KX118413.1_Alternaria_alternata_strain_BHU-LMMT02	-----	-----	503
KX118415.1_Alternaria_alternata_strain_BHU-LMMT04	-----	-----	503
KX118418.1_Alternaria_alternata_strain_BHU-LMMT07	-----	-----	503
KX118419.1_Alternaria_alternata_strain_BHU-LMMT08	-----	-----	503
KX118421.1_Alternaria_brassicicola_strain_BHU-LMMT10	-----	-----	503
KX118425.1_Alternaria_brassiccae_strain_BHU-LMMT14	-----	-----	503
KX118426.1_Alternaria_brassiccae_strain_BHU-LMMT15	-----	-----	503
KX118427.1_Alternaria_solani_strain_BHU-LMMT16	-----	-----	503
KX118424.1_Alternaria_brassicicola_strain_BHU-LMMT13	-----	-----	503
KX118414.1_Alternaria_alternata_strain_BHU-LMMT03	-----	-----	503
KX118423.1_Alternaria_brassicicola_strain_BHU-LMMT12	-----	-----	503
KX118412.1_Alternaria_alternata_strain_BHU-LMMT01	-----	-----	503
KX118417.1_Alternaria_alternata_strain_BHU-LMMT06	-----	-----	503
KX118420.1_Alternaria_alternata_strain_BHU-LMMT09	-----	-----	503
KX118422.1_Alternaria_brassicicola_strain_BHU-LMMT11	-----	-----	503
KX179478.1_Alternaria_alternata_strain_BHU-LMMT35	-----	-----	503
KX118416.1_Alternaria_alternata_strain_BHU-LMMT05	-----	-----	503
KX179483.1_Alternaria_alternata_strain_BHU-LMMT40	-----	-----	503
KX179484.1_Alternaria_alternata_strain_BHU-LMMT41	-----	-----	503
KX179485.1_Alternaria_alternata_strain_BHU-LMMT42	-----	-----	503
KX179482.1_Alternaria_solani_strain_BHU-LMMT39	-----	-----	503
KX139158.1_Alternaria_tenuissima_strain_BHU-LMMT25	-----	-----	503
JQ070079.1	-----	-----	503
KX179480.1_Alternaria_alternata_strain_BHU-LMMT37	-----	-----	503
KX179479.1_Alternaria_alternata_strain_BHU-LMMT36	-----	-----	503
KX139153.1_Alternaria_brassiccae_strain_BHU-LMMT20	-----	-----	503
KX179489.1_Alternaria_alternata_strain_BHU-LMMT46	-----	-----	503
KX139163.1_Alternaria_eichhorniae_strain_BHU-LMMT30	-----	-----	503
KX179488.1_Alternaria_alternata_strain_BHU-LMMT45	-----	-----	503
KX179481.1_Alternaria_solani_strain_BHU-LMMT38	-----	-----	503
KX179487.1_Alternaria_sp._2_MM-2016	-----	-----	503
KX139164.1_Alternaria_eichhorniae_strain_BHU-LMMT31	-----	-----	503
KX179490.1_Alternaria_sp._3_MM-2016	-----	-----	503
KX179477.1_Alternaria_alternata_strain_BHU-LMMT34	-----	-----	503
KX179486.1_Alternaria_sp._1_MM-2016	-----	-----	503
KX179491.1_Alternaria_sp._4_MM-2016	-----	-----	503
KX139154.1_Alternaria_brassiccae_strain_BHU-LMMT21	-----	-----	503
KX139152.1_Alternaria_brassiccae_strain_BHU-LMMT19	-----	-----	503
KX139165.1_Alternaria_macrospora_strain_BHU-LMMT32	-----	-----	503
KX139166.1_Alternaria_macrospora_strain_BHU-LMMT33	-----	-----	503
KX139150.1_Alternaria_solani_strain_BHU-LMMT17	-----	-----	503
KX139151.1_Alternaria_solani_strain_BHU-LMMT18	-----	-----	503
KX139162.1_Alternaria_porri_strain_BHU-LMMT29	-----	-----	503
KX139159.1_Alternaria_brassicicola_strain_BHU-LMMT26	-----	-----	503
KX139160.1_Alternaria_brassicicola_strain_BHU-LMMT27	-----	-----	503
KX139157.1_Alternaria_tenuissima_strain_BHU-LMMT24	-----	-----	503
KX139161.1_Alternaria_porri_strain_BHU-LMMT28	-----	-----	503
KX139155.1_Alternaria_brassiccae_strain_BHU-LMMT22	-----	-----	503
KX139156.1_Alternaria_brassiccae_strain_BHU-LMMT23	ATCAGTTTGG GCGGTAGGAT AAAGGTCTCT GTCACGTACC TC	-----	503
Consensus	-----	-----	503
Conservation	-----	-----	503
100%	-----	-----	503
0%	-----	-----	503