

		10	20	30	40	50	60	70	80	90	100
MT396206 P.	toraliformis	T	TATGGTTCCTTGAC	TGAGAAACCAACATCGTTGTCTT	T	ATGACTTGG	TCAT	AATGGTGGGA	GATACAG	CTAAA	TGTAATATC
MT396205 P.	toraliformis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT396201 P.	typicus	.....	.....	C	.....	C	.....	A	A	A	.AC.CAT
MT396202 P.	typicus	.....	.....	C	.....	C	.....	A	A	A	.AC.CAT
MT396203 P.	iugalis	.....	T	.....	C	.....	C	A	A	A	.AC.CAT
MT396204 P.	iugalis	.....	T	.....	C	.....	C	A	A	A	.AC.CAT
MT396199 Pa.	turleyi	.....	.....	.....	.....	.....	.....	GA	A	A	.AC.CCCCC
MT396200 Pa.	turleyi	.....	.....	.....	.....	.....	.....	GA	A	A	.AC.CCCCC
MT396191 O.	giltneri	.....	.....	C	.....	.....	.....	A	A	A	.TAC.CCCCC
MT396194 O.	giltneri	.....	.....	C	.....	.....	.....	A	A	A	.TAC.CCCCC
MT396197 O.	stirtoni	.....	.....	C	.....	.....	.....	A	A	A	.TAC.CCCCC
MT396198 O.	stirtoni	.....	.....	C	.....	.....	.....	A	A	A	.TAC.CCCCC
MT396196 O.	longispicularis	.....	.....	C	.....	.....	.....	GA	A	A	.TAC.CCCCC
MT396193 M.	ocydromi	.....	.....	.....	A	C	G	.....	A	A	.A.T.T
MT396208 H.	macropi	C	A	.....	G	.....	A	.....	A	A	.CCA.AT.GCA
MT396207 H.	macropi	CA	.....	G	.....	A	.....	A	A	A	.TAC.AT.CCA
MR842122 Ma.	yamaquiti	.....	.....	A	C	.....	A	.....	A	A	.C.C.AA
MR842123 Ma.	lasiorhini	.....	A	.....	G	C	.....	A	A	A	.C.C.AA
MR842124 Ma.	lasiorhini	.....	.....	.....	G	C	.....	A	A	A	.C.C.AA
MR842127 Ma.	dissimilis	.....	.....	RC	.....	T	A	.....	A	A	.C.CCT.TY
MR842128 Ma.	dissimilis	.....	.....	C	.....	T	A	.....	A	A	.T.C.TCT.T.A
MR842130 Ma.	woodi	.....	.....	.....	A	C	.....	A	A	A	.C.C.AA
MR842131 Ma.	spearlei	.....	.....	.....	.....	.....	.....	A	A	A	.C.C.AA
MR842145 Ma.	baylisi	C	GC	.....	.....	.....	.....	A	A	A	.C.AA
MR842146 Ma.	mawsonae	.....	.....	.....	.....	.....	.....	A	A	A	.CC.CA
MK284677 C.	ernabella	.....	A	G	.....	A	AGC	C	G	.....	.CC.CCC.T
		110	120	130	140	150	160	170	180	190	200
MT396206 P.	toraliformis	CACTTA	GGGGTGTCTACG	TACAACATGACCGGTTT	CGGGTGGGTC	CGGTGATTG	TGTGCGAAGTTC	CGCGATAAAAA	TAC	GCTGAGC	TTTTAGA
MT396205 P.	toraliformis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT396201 P.	typicus	.....	T	G	A	.....	T	.....	T	.....	.....
MT396202 P.	typicus	.....	T	G	A	.....	T	.....	T	.....	.....
MT396203 P.	iugalis	.....	T	G	A	.....	T	.....	T	.....	.....
MT396204 P.	iugalis	.....	T	G	A	.....	T	.....	T	.....	.....
MT396199 Pa.	turleyi	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396200 Pa.	turleyi	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396195 O.	giltneri	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396194 O.	giltneri	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396197 O.	stirtoni	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396198 O.	stirtoni	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396196 O.	longispicularis	.....	GT	.....	A	.....	T	.....	G	.....	.....
MT396193 M.	ocydromi	.....	T	A	.....	T	.....	.....	.....	.....	.....
MT396207 H.	macropi	.....	T	C	T	A	.....	T	.....	G	G
MT396208 H.	macropi	.....	T	C	T	A	.....	T	.....	G	G
MR842122 Ma.	yamaquiti		T		A		T		A		
MR842123 Ma.	lasiorhini		T		A		T		A		
MR842124 Ma.	lasiorhini		T</								

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MK842146 Ma. mawsonae .....CCATAG.GC.....TA...G.....ACAC.TG...A..G..G.....-CT.T.
MK284677 C. ernabella .....C.....CTC.....T.A...AG.....G.A..TG.....C.....T.G.G.....A..TC.....C...TT..

410      420
MT396206 P. toraliformis T-----CACAAATTG
MT396205 P. toraliformis -----
MT396201 P. typicus -----
MT396202 P. typicus -----
MT396203 P. iugalis -----
MT396204 P. iugalis -----
MT396199 Pa. turleyi .....C.
MT396200 Pa. turleyi .....C.
MT396194 O. giltneri .....C.
MT396197 O. giltneri .....C.
MT396196 O. stirtoni .....C.
MT396193 O. stirtoni .....C.
MT396207 O. longispicularis .....C.
MT396193 M. ocydromi A-----
MT396207 H. macropi .....ATATGTATATAAAAAGTCA..A....
MT396208 H. macropi .....AAAGTCA..A....
MK842122 Ma. yamagutii .....A.
MK842123 Ma. lasiorhini .....A.
MK842124 Ma. lasiorhini .....
MK842127 Ma. dissimilis .....
MK842128 Ma. dissimilis .....
MK842130 Ma. woodi .....
MK842131 Ma. spearei .....A.
MK842145 Ma. baylisi GTCACACA.....
MK842146 Ma. mawsonae .....
MK284677 C. ernabella .....C.

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B

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10      20      30      40      50      60      70      80      90      100
MT396206 P. toraliformis TT ATG AAT ACTACAGTGTGGCGTGAAG CACTGTTGTCGAACGACGCTTGCCCA TATGTGGGTACGTGCGTTGTATGTGTATATGGT
MT396205 P. toraliformis .....
MT396201 P. typicus .....AC.....C.....A.....CACAT.....C.A..G..AA
MT396202 P. typicus .....AC.....C.....FA.....CACAT.....C.A..G..AA
MT396203 P. iugalis .....AC.....C.....A.....CACAT.....C.A..G..AA
MT396204 P. iugalis .....AC.....C.....A.....CACAT.....C.A..G..AA
MT396199 Pa. turleyi .....T.....A.....G.....
MT396200 Pa. turleyi .....A.....T.....A.....G.....
MT396195 O. giltneri .....A.....T.....G..A.....T.....A.....G.....
MT396194 O. giltneri .....A.....T.....G..A.....T.....A.....G.....
MT396197 O. stirtoni .....A.....T.....A.....T.....A.....G.....
MT396198 O. stirtoni .....A.....T.....A.....T.....A.....G.....
MT396196 O. longispicularis .....A.....T.....G..AC.....T.....A.....G.....
MT396193 M. ocydromi TCTGCGAC.....C.....G..A.....TACATT..C.....C.GGT..
MT396207 H. macropi .....C..AT.....A.....T.....A.....T.....T.....GC.T.....ACATA..T..AT..A.A..CA.A...TGT
MT396208 H. macropi .....C..AT.TA.....A.....A.....T.....T.....GC.T.....ACA.A...A.A.G...TGT
MK842122 Ma. yamagutii .....C.A..T.....C.....T..A..T.....T.....GC.T.....CC
MK842123 Ma. lasiorhini .....C.A..T.....C.....T..A..T.....T.....T.....CC
MK842124 Ma. lasiorhini .....C.A..T.....C.....T..A..T.....T.....T.....TC
MK842127 Ma. dissimilis .....ACT.....C.....T..A..T.....T.....C.....TC...AG
MK842128 Ma. dissimilis .....ACT.....C.....T..A..T.....T.....C.....TC...AG
MK842130 Ma. woodi .....C.A..T.....C.....TGA.T.....G.A.T..A.....CC
MK842131 Ma. spearei .....C.A..T.....A.....C.....T..A..T.....R.T.....CC
MK842145 Ma. baylisi .....C.A..T.....C.....T..A..T.....A.T.....T.....AT.TCA...G
MK842146 Ma. mawsonae .....C.A..T.....C.....T..A..T.....T..T.....T.....CC
MK284677 C. ernabella TCAAT.....C.....T.TA.....T.....T.....G..C.GC

110     120     130     140     150     160     170     180     190     200
MT396206 P. toraliformis GCGTCTCTGTTCTAGTTCAGAA TTATAT TGCACAGGTGCTTT GG AGCA-ATC
MT396205 P. toraliformis .....
MT396201 P. typicus .....A.....T..A.....ACATCTA.....T.....
MT396202 P. typicus .....A.....T..A.....ACATCTA.....T.....
MT396203 P. iugalis .....A.....T..A.....ACATCTA.....T.....
MT396204 P. iugalis .....A.....T..A.....ACATCTA.....T.....
MT396199 Pa. turleyi GAC.....A.G.....TG.G.....A.....T.....
MT396200 Pa. turleyi GAC.....A.G.....TG.G.....A.....T.....
MT396195 O. giltneri GAC.....A.G.....TA.G.....A.....T..G..
MT396194 O. giltneri GAC.....A.G.....TA.G.....A.....T..G..
MT396197 O. stirtoni GAC.....A.G.....TG.G.....A.....T.....
MT396198 O. stirtoni GAC.....A.G.....TG.G.....A.....T.....
MT396196 O. longispicularis GAC.....A.G.....TG.G.....A.....T.....
MT396193 M. ocydromi .....C..A.A.....T..CT.....T.....A.....
MT396207 H. macropi .....A.....A.A.....TAAT.....T.....GTFA.....G.G.GG...GCTTGTCACCTTATCCGTCOCCCA
MT396208 H. macropi .....A.....A.A.....TAAT.....T.....GTGT.....G.....GCTTGTCACCTTATCCGTCOCCCA
MK842122 Ma. yamagutii .....A.....T..A.A.A.....T..C..C.....T.....T.....
MK842123 Ma. lasiorhini T.A..T.....A.A.A.....T..C..C.....T.....T.....T
MK842124 Ma. lasiorhini .....A.....T..A.A.....T..C..C.....T.....T.....
MK842127 Ma. dissimilis .....A.....A.....ACATCTC...AA.....T.....A.....T.....
MK842128 Ma. dissimilis T.A..T.....A.....ACATCTA..A.....T.....C..A.....T.....
MK842130 Ma. woodi .....A.....T..A.A.A.....TAC..C.....T.....T.....
MK842131 Ma. spearei .....A.....T..A.A.A.....T..C..C.....T.....T.....
MK842145 Ma. baylisi .....A.....T..A.A.A.A.A.....T..C..C.....T.....TGTTTC..
MK842146 Ma. mawsonae .....A.....T..A.A.A.....T..C..C.....T.....T.....
MK284677 C. ernabella A.A..A.....A.....A.G.....C.G..C..C.....T..A.A.....T..TG.

210     220     230     240     250     260     270     280     290     300
MT396206 P. toraliformis CAT TGCACA CGAATGTCAATG ACAA ACCTAGTTGTCACTGTGAGTGCATTAGCGAA TAAA AA
MT396205 P. toraliformis .....
MT396201 P. typicus .....AG.....AG.....AC.....C..AG.....C..TG..
MT396202 P. typicus .....AG.....AG.....AC.....C..AG.....C..TG..
MT396203 P. iugalis .....AG.....AG.....AC.....C..AG.....C..TG..
MT396204 P. iugalis .....AG.....AG.....AC.....C..AG.....C..TG..
MT396199 Pa. turleyi .....T.....CT.....C.....AA.....C..G..
MT396200 Pa. turleyi .....T.....CT.....C.....AA.....C..G..
MT396195 O. giltneri T.A..T.....T.....CT.....C.....AA.....C..G..
MT396194 O. giltneri T.A..T.....T.....CT.....C.....AA.....C..G..
MT396197 O. stirtoni .....A.....CT.....C.....AA.....C..G..
MT396198 O. stirtoni .....A.....CT.....C.....AA.....C..G..
MT396196 O. longispicularis .....A.....T.....TCT.....AA.....C..G..
MT396193 M. ocydromi .....C.....ATGGC.....TG.CACACATAA.C.....C..AT..
MT396207 H. macropi T.....T.....T.....AAGACACACAC CACACAC.TA.C.....T.....AA.....GAA.TGG..
MT396208 H. macropi T.....T.....T.....A.....T.....AC.TA.C.....T.....AA.....GAA.TG..
MK842122 Ma. yamagutii .....T.....T.....T.....T.....T.....T.....T.....T.....T.....
MK842123 Ma. lasiorhini .....C.....T.....T.....T.....T.....T.....T.....T.....T.....T.....
MK842124 Ma. lasiorhini .....T.....T.....T.....T.....T.....T.....T.....T.....T.....
MK842127 Ma. dissimilis T.....G.....TG.....TC.....TG.....T.....T.....A.AG.....CTT.TTG
MK842128 Ma. dissimilis T.....G.....TG.....TC.....TG.....T.....T.....A.AG.....CTT.TTG

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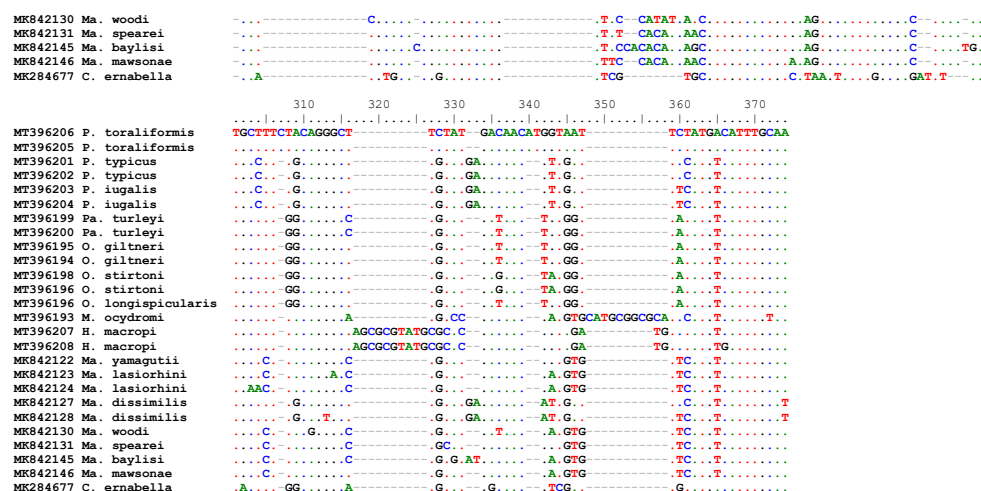


Figure S1. Alignments of the first (A) and second (B) internal transcribed spacers. A dot indicates an identical nucleotide with respect to the top sequence for each alignment. International Union of Pure and Applied Chemistry (IUPAC) codes indicate polymorphic positions in the sequences.