

## Supporting Information for:

**Phylogeny of parasitic Parabasalia and free-living relatives inferred from conventional markers vs. *Rpbl*, a single-copy gene**

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**Table S1:** Primers used to amplify and sequence fragments of parabasalid *Rpb1* genes, listed from 5' to 3' positions within the gene.

	Forward primer (5' – 3')	Reverse primer (5' – 3')
<b>General degenerate oligos</b>		
Rpb1AF1 (ECPGHFG) [56]	GAGTGTCCAGGNCAYYTTYGG	
Rpb1AF2 (SHPKWMI)	TCNCATCCARARTGGATGAT	
Rpb1C2F (IDQVGVP)	ATMGAYCARGTNGGWGTTCC	
Rpb1C1F (KMSMMGH)	AARATGTCTATGATGGGNAC	
Rpb1DF (TPYNA)	ACWACWCCWTAYAAAYGC	
Rpb1DF2 (PYNADFDGDEM)	CCGTACAATGCAGAYTTYGAYGGNGAYGARATG	
Rpb1FR (FHAMGG)		CCAGCCATNGCRTGRAA
Rpb1GR2 (PGEMVGT)		GTGCCGACCATYTCNCCNGG
Rpb1GR1 (MTLNTFH) [56]		GTGGAACGTGTTNARNGTCAT
<b><i>Trichomonas vaginalis</i></b>		
TrichomonRpb1ASR1		ATGTATTGAATTTCTGGATC
TvRpb1iF	GAAGATTATTTATCCGCCG	
TvRpb1iR		GGGAGTATGAGTTGTGGG
TvRpb1DF (IFNRQP)	CATTTTCAACCGTCAGCC	
<b>TvRpb1DR (MNLHVPQ)</b>		TGTGGAACGTGAAGGTTTCAT
TvB7Rpb1SFD2	GCGCGATACATTCCTTAC	
TvRpb1SF1	ACTCCATTCTCTTGCGG	
TvRpb1SF2	GGTAACCTCCTCGCTGG	
TvRpb1SF3	GGTCTCATCGACTGCG	
TvRpb1GSF4	TGATAACATCTCTCGTAC	
TvRpb1SR1		CATCGAGAACGAAATCGTCC
<b><i>Trichomonas tenax</i></b>		
TtxRpb1SF1	GGATGTCAGACTCATGGGC	
TtxRpb1SF2	GCTGATTTCAACATCACACAGG	
TtxRpb1SF3		
TtxRpb1SF4	GATCAATCGTCGCTCCAGG	
TtxRpb1SR1		CCGTTTGAATATGAGTCATATG
TtxRpb1SR3 (GHLRGH)		GTGTCTCTCAAGTGACC
TtxRpb1SR4		GGGTGAATCACAGCAGTCC
<b><i>Trichomonas</i> sp. RWG-2007-1 GRDO1</b>		
Tg393Rpb1ASF2	TCCAACAAACAATGCC	
Tg393Rpb1CSR1		CTGTTCTTGTACCACGATC
Tg393Rpb1DSF1	CTGTTGCTAGATCAGAAGG	
Tg393Rpb1ESF3	ATTCGGCTTTAGTGGTAG	
Tg393Rpb1GSF4	CAAGACGTGCTCAAGATAATGC	
<b><i>Trichomonas gallinae</i></b>		
Tg394Rpb1BSF1	GGCCAAAGCGTCCCATCACAGG	
Tg394Rpb1ESR1		GCACCCTTCGAACCGGCAGTAAGC
Tg394Rpb1GSF2	GCGCAGGAGAACGCCACGC	
Tg8855C306Rpb1R4		GGGACTTTCATACGTCTGTG
Tg8855C306Rpb1F2	GCTGAAAGTTATCTCACAGCGTC	

Tg8855C306Rpb1R3		GTCTTCGACTTCGTTAATCTTCTC
Tg8855C306Rpb1R2		TGAGGAACTCGTCGAGTACG
Tg8855C306Rpb1F3	AGAAACTCTCTCAACGAAGTTGTC	
Tg8855C306Rpb1F4	CGCGTGCTTCAATTTCCGAC	
<b><i>Pentatrichomonas hominis</i></b>		
PhRpb1SF1 (DTGTKTD)	CAGATACGGGAACGAAGACCG	
PhRpb1SF2	GCTGTGGTCAGGTAAGC	
PhRpb1SF3	GGCGCACATCCGCCGCG	
PhRpb1SR1 (TYFIND)		ATCATTGATAAAGTATGT
PhRpb1SR2		CCTCGTCAGCTTGAGATGGG
PhRpb1SR3		CGACTTCCATCTCGTACTCCTC
PhRpb1GSF1	CAAGCACAGGCTCGACG	
<b><i>Pseudotriconomonas keilini</i></b>		
PkRpb1ASR1		GCATTCATGATTTGACGAC
PkRpb1BSF1	GATCGCATCCCAAGTGG	
PkRpb1DSF1	ATAGACAGCCATCACTCC	
PkRpb1DSF2	GAGCTGTATTAATGAGTGG	
<b><i>Tritrichomonas foetus</i></b>		
TfRpb1SF1 (SHPEWM)	TCGCATCCAGAATGGATG	
TfRpb1SF2 (TDGDIV)	ACCGATGGTGATATTGTT	
TfRpb1SF3	GGATACCTGTTGATGATACACG	
TfRpb1SF4	GCACTTTCTAGAGAAGC	
TfRpb1SR3		GTGACCACGAATGTGTCC
TfRpb1SR4		GGTTAGGATTACTCATTAATTC
<b><i>Dientamoeba fragilis</i></b>		
DfRpb1SF1 (PVPPPH)	CCAGTTCACCACCACACG	
DfRpb1SF2 (SIVERH)	CTATCGTTGAGCGTCACC	
DfRpb1DSF3	GTCACCATGCTGTGATTATGAG	
DfRpb1ASR1		GCTCGCATGATGATAAGCGGC
DfRpb1SR1 (DDGSIV)		CGATAGAGCCATCATCC
<b><i>Trichomitus batrachorum</i></b>		
TbRpb1ASF1	GGACCCTGCGCGTGGAGAACCCG	
TbRpb1ASR1		TGCATGAATGGCCAGAAGAC
TbRpb1CSR2		CGATGGAGATCGAAGGATCGGG
TbRpb1DSF2	ATGTCCATGATGGGGCACTATGC	
TbRpb1GSR3		CGATGATACGCTTCAGG
TbRpb1GSF4	TTCATGCCACGCTCGCCTC	
TbRpb1DSR4		GTGTCCATAATCCACAT
TbRpb1DSF5	TGGACACAAAGCCTGACC	
TbRpb1ESF6	CGCTCACCGGTACATTTGAAGCG	
TbRpb1FSR4		CGCGAACGGTTCCGTCGTATTGG
<b><i>Hypotriconomonas acosta</i></b>		
HaRpb1ASR1		GGTAATGTGTGACAGCGC
HaRpb1AF1	ATGCGGTCTGTTACTTGC	

HaRpb1CSR1		CCTGTGGTGTAAATGACATAG
HaRpb1DSR1		CCACATCATCAAGTTTG
HaRpb1DSF1	CAATCGTCAACCATCTCTCC	
HaRpb1FF1	CTCCTCCAGGTCTCACTTTTCATGG	
HaRpb1FR1		TGCACAGTGGCACCAGT
HaRpb1GSF1	GCCCAAGACAATGCAACTC	
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<i>Monocercomonas colubrorum</i>		
McRpb1ASR1		GATACAAGTAAACGGCCAC
McRpb1BSF1	GGAGAAGATGTTTCATCCTG	
McRpb1DSR1		CTGGTCCATTATGGACAAGC
McRpb1DSF1	GTAGAACGCCATCTCCGAG	
McRpb1ESF1	GCCTGAAATTAACCATGATGG	
McRpb1GSF1	GAAGCTCAAGATAATGCAAC	
McRpb1GSR1		CTGATCTATCAGAATGTGG
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<i>Monocercomonas sp.</i>		
MspRpb1ASF1	CAAAGTTAAAGATCCCGC	
MspRpb1ASR1		ATGAGCCTCTGCTTTCCATG
MspRpb1DSR1		GCTATCTCAAGTGGCACACC
MspRpb1DF1	AAAATGTCTATGATGGGTC	
MspRpb1ESF1	GCGCGATGTCGTTCTCCCACC	
MspRpb1FSR1		GTGAGTTACGAATAGTTCC
MspRpb1GSR1		CCTTGAAATGTAATCATC
MspRpb1GSF1	GATGATTACATTCCAAGG	
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<i>Monotrichomonas carabina</i>		
MtRpb1DR1		GAACCAAGCCGATGATTGG
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