

Table S1. Information on LRV1 sequences from previous studies used for phylogenetic analyses

CLIOC <i>Leishmania</i> Strain ID (IOCL)	GenBank Accession Number	International Code	Parasite Species	Geographic Origin	Reference
3562	MG202146	MHOM/BR/2014 /308	<i>L. braziliensis</i>	Porto Velho/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
NA	MG202144	MHOM/BR/2015 /386	<i>L. braziliensis</i>	Porto Velho/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
3545	MG202143	MHOM/BR/2014 /275	<i>L. braziliensis</i>	Porto Velho/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
3569	MG202145	MHOM/BR/2014 /299	<i>L. braziliensis</i>	Porto Velho/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
3567	MG202139	MHOM/BR/2014 /291	<i>L. braziliensis</i>	Porto Velho/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
3538	MG202140	MHOM/BR/2014 /271	<i>L. guyanensis</i>	Candeias do Jamari/Rondônia/ Brazil	Cantanhêde et al., 2018 [18]
3354	MG202141	MHOM/BR/2011 /S77-ABF	<i>L. guyanensis</i>	Santarem/Pará/ Brazil	Cantanhêde et al., 2018 [18]
1545	MG202142	MCEB/BR/1984/ M8408	<i>L. shawi</i>	Paraupébas/Pará/ Brazil	Cantanhêde et al., 2018 [18]
3460	MG202147	MHOM/BR/2013 /04LTAVMR	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
3461	MG202148	MHOM/BR/2013 /05LTAMVL	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
3486	MG202149	MHOM/BR/2013 /27JNS	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
3542	MG202151	MHOM/BR/2014 / 233CFS	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
3503	MG202150	MHOM/BR/2013 /33LGS	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
1398	JX313127	MHOM/BR/1989 /IM3597	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Cantanhêde et al., 2018 [18]
NA	KY750607	MHOM/FG/2011 /2001	<i>L. guyanensis</i>	Manaus/Amazonas/ Brazil	Tirera et al., 2017 [17]
565	KX808487	MHOM/BR/1975 /M4147	<i>L. guyanensis</i>	Monte Dourado/Pará/ Brazil	Brettmann et al., 2016 [32]
565	U01899	MHOM/BR/1975 /M4147	<i>L. guyanensis</i>	Monte Dourado/Pará/ Brazil	Tirera et al., 2017 [17]

NA	JX313126	IWHI/BR/1978/ M5313	<i>L. guyanensis</i>	Monte Dourado/Pará/ Brazil	Tirera et al., 2017 [17]
NA	KY750608	MHOM/FG/2013 /LF94	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750609	MHOM/FG/2013 XJ93	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750610	MHOM/FG/2013 YA70	<i>L. braziliensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750611	MHOM/FG/2013 /2014	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750612	MHOM/FG/2012 /2008	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750613	MHOM/FG/2012 /2015	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750614	MHOM/FG/2012 /2028	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750615	MHOM/FG/2012 /2028	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750616	MHOM/FG/2012 /2028	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750617	MHOM/FG/2013 /LF98	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750618	MHOM/FG/2012 /LL28	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750619	MHOM/FG/2012 /MC71	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750620	MHOM/FG/2012 /MJ25	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750621	MHOM/FG/2014 /PD46	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750622	MHOM/FG/2012 /VL19	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750623	MHOM/FG/2013 /VW21	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750624	MHOM/FG/2012 /WF69	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750625	MHOM/FG/2012 /WF69	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750626	MHOM/FG/2013/ XJ93	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750627	MHOM/FG/2013 /XK73	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750628	MHOM/FG/2013 /YE48	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750629	MHOM/FG/2014 /YR07	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KY750630	MHOM/FG/2012 /YZ58	<i>L. guyanensis</i>	French Guiana	Tirera et al., 2017 [17]
NA	KX808483	MHOM/BO/1990 /AN	<i>L. braziliensis</i>	Bolivia	Brettmann et al., 2016 [32]

NA	KX808486	MHOM/BO/IMT 252	<i>L. braziliensis</i>	Bolivia	Brettmann et al., 2016 [32]
NA	KX808485	MHOM/BO/1990 /CS	<i>L. braziliensis</i>	Bolivia	Brettmann et al., 2016 [32]
NA	KX808484	MHOM/BO/1990 /CS	<i>L. braziliensis</i>	Bolivia	Brettmann et al., 2016 [32]
NA	KC862308	MHOM/BO/2011 /2169	<i>L. braziliensis</i>	Bolivia	Parmentier et al., 2016 [33]
NA	M92355	MHOM/SR/1980/ CUMC1	<i>L. guyanensis</i>	Suriname	Parmentier et al., 2016 [33]

NA: Non applicated