

Supplementary Table S7. Protein expression of the actin-like encoding gene fragments in proteomes reported of different *T. vaginalis* isolates and under distinct culture conditions.

Isolate			CNCD147 ^{23, 27}		T1 ^{19, 21}		FMV1 ¹⁵		1 ²⁸	FF28jT-Rio ¹⁶	SD7 ¹⁸	B7268 ¹⁸	G3 ¹⁸	SD10 ¹⁸	LSU 160 ²⁹	Unknown ²⁰	B7RC2 ^{24, 26}		RU393 ²⁵	TV17-48 ³⁰	FMV1 ¹⁷	FF28jT-Rio ¹⁷	FMV1 ²²					
Condition/Morph			Put	Zn ²⁺	IR	HI	TF	CLS	TF	IR	HI					Am	Ca ²⁺	Suc	HI/Am	Unknown	HVir	LVir	Infection (min)					
Extract/Organelle			TE	TE	Hyd	Hyd	TE	TE	TE	TE	MEP					TE	MVs	Exo	MEP	Lys	TE	TE	5	30	120			
Group	Name	TVAG_																										
I	TvACT1	160060					XX	X		X							±	X							X	X	X	
	TvACT2	172680					XX	X		X							±	X							X	X	X	
	TvACT3	200190	X		XX		XX	X		X								X							X	X	X	
	TvACT4	249200			±		XX	X		X								X							X		X	
	TvACT5	310030					XX	X		X								X				XX	X	X	X	X	X	
	TvACT6	485210					XX	X		X								X							X	X	X	
	TvACT7	149090				X	XX	X		X								X							X		X	
	TvACT8	54030	X	X			XX	X			X	X	X	X	X	X	±	X		X					X	X	X	
	TvACT9	90470					XX	X									X		X	X					X	X	X	
	TvACT10	337240		X			XX	X									X		X	X	X	X			X			
II	A		512800														X		X							X	X	X
			150270														X			X						X	X	X
			534990														X		X	X						X	X	X
	B		371880			XX		X	XX	X							X		X	X	X	X	XX	X				
			043970					XX	X																			
			094140					X	XX																	X		
			189860					XX	X																			
			027630					X	XX																			
			161530																							X		
			434970			±		XX	X	X																X	X	X
	C		248040																									
			071770																									
			495500																									
			247170																									
			167330																									
			276270																									
			225210																									
			354260																									
			238100																									

Morph: Morphology; TE: Total Extract; Put: Putrescine; Zn²⁺: Zinc; IR: Iron-restriction; HI: High iron; Ca²⁺: Calcium; Suc: Sucrose; Hyd: Hydrogenosomes; TF: Trophozoite; CLS: Cyst-Like Structure; MEP: Membrane-Enriched Pellet; Am: Amoeboid; HVir: High virulence; LVir: Low virulence; MVs Microvesicles; Exo: Exosome; Lys: Lysosome; X: Presence; XX: Overexpressed; ±: Down expression. Superindex numbers of references: ¹⁵Dias-Lopes et al., 2018; ¹⁶de Jesus et al., 2007; ¹⁷Cuervo et al., 2008; ¹⁸de Miguel et al., 2010; ¹⁹Schneider et al., 2011; ²⁰Huang et al., 2012; ²¹Beltrán et al., 2013; ²²Gould et al., 2013; ²³Quintas-Granados et al., 2013; ²⁴Twu et al., 2013; ²⁵Riestra et al., 2015; ²⁶Nievas et al., 2017; ²⁷Alvarez-Sánchez et al., 2018; ²⁸Beri et al., 2020; ²⁹Molgata et al., 2021; ³⁰Zimmann et al., 2022.