

SI. Sequences used for genetic analyses. Newly sequenced samples are indicated in bold. Sequence uploaded as: *Globodera pallida**; *Globodera* sp.**

Species	Gene	Origin	GenBank accession	
<i>Globodera ellingtonae</i>	ITS	Argentina	DQ097514*	
		Chile	GU084807, GU084808**	
		USA	GQ896542-GQ896547**	
<i>Globodera mexicana</i>	ITS	Mexico	EU006707-EU006709	
<i>Globodera pallida</i>	ITS	Canada	GQ294522, GQ294523	
		Chile	GU084801, GU084814, GU084815, GU084817	
		Chile	EF153834	
		New Zealand	EF622533	
		Peru	GU084797, GU084818	
		Peru	EU006704-EU006706	
		Poland	EU855119	
		Ukraine	AJ606687	
		United Kingdom	DQ847110	
		United Kingdom	EF153838	
		USA	EF153835	
		D2-D3	Canada	GQ294489-GQ294491
			Czech Republic	GU338022
			France	GU338020
			Germany	GU338021
			Netherlands	GU338019
			United Kingdom	GU338018
		Hsp90	Canada	GQ401350
		Canada	HQ171927-HQ171929	
	Peru	KF834985		
	USA	GQ401351		
<i>Globodera rostochiensis</i>	ITS	Australia	EF622524	
		Canada	FJ212164, FJ212166, GQ294519	
		Russia	DQ847120	

		Slovenia	AY700060
		United Kingdom	EF153840
		USA	EF153839
	D2-D3	Canada	GQ294484-GQ294488
		Czech Republic	GU338015
		Germany	GU338016-GU338017
	Hsp90	Bolivia	KF834986-KF834987
		Canada	GQ401343-GQ401347
		France	GQ401348
		USA	GQ401349
<i>Gobodera tabacum</i>	ITS	Argentina	DQ097515
		Japan	AB207272
		USA	DQ847112, DQ847114, DQ847116
		USA	EF153841, EF153842
		USA	GQ294525
	D2-D3	USA	GQ294492
	Hsp90	Argentina	KF834984
		France	GQ401352
		USA	GQ401353
Outgroups			
<i>Punctodera chalcoensis</i>	ITS	Mexico	AY090885
<i>Punctodera punctata</i>		Belgium	AF274416
<i>Globodera artemisiae</i>	D2-D3	Poland	EU855121
<i>Globodera millefolii</i>		Estonia	DQ328700
<i>Heterodera</i> sp.	Hsp90	Ukraine	EU284036
<i>Meloidogyne artiellia</i>		Italy	FM897370
<i>Pratylenchus teres</i>		-	AF457583
