

Supplementary file 1

Lungworm species used in the phylogenetic tree construction

	Host	Country	Accession no.
<i>Aelurostrongylus abstrusus</i>	x	Brazil	DQ029000
	x	Italy	EU034168
	x		DQ372965
	x		JX948745
	<i>Felis catus</i>	Italy	KM009116
			Romania
	<i>Felis silvestris</i>	Germany	KM506760
			KX518353
		Italy	KF751655
		Japan	KY774310
<i>Crenosoma vulpis</i>	<i>Vulpes vulpes</i>	Germany	KF836608
<i>Dictyocaulus filaria</i>	<i>Goat yearling</i>	Turkey	KF471018
	<i>Ovis aries</i>	x	U37717
	<i>Sheep</i>	Iran	KC569369
	<i>Soay sheep</i>	UK	AY439020
<i>Dictyocaulus viviparus</i>	<i>Bison bonasus</i>	X	KM359415
		Poland	KF007341
	<i>Bos taurus</i>	x	U37718
	<i>Cervus elaphus</i>	x	KM359414
	<i>Cattle</i>	Sweden	AF105257
	x	Austria	KU891914
<i>Metastrongylus elongatus</i>	<i>Sus scrofa</i>	Estonia	AJ305378
			AJ305379
			AJ305380
			AJ305381
			AJ305404
		Uzbekistan	KF811486
<i>Muellerius capillaris</i>	<i>Capra hircus</i>	USA	AY679530
	<i>Ovis aries</i>	Canada	AY679528
	<i>Ovis canadensis</i>	USA	AY679529
	<i>Ovibos moschatus</i>	Norway	KJ534592

<i>Oslerus osleri</i>	<i>Canis lupus</i>	Canada	JQ730005
<i>Protostrongylus rufescens</i>	Animals	USA	EU018485
	Caprinae	Uzbekistan	KF811499
<i>Troglostrongylus brevior</i>	Cat	Italy	KF241978
			JX290564
			KF751656
	<i>Felis catus</i>	Bosnia and Herzegovina	KT818789
		Italy	KM009117
		Romania	76
			223
			225
	304		
	<i>Felis silvestris</i>	Romania	MF997544
	<i>Lynx lynx</i>	Central Europe	KY826439
Japan		KY774311	