

Supplementary Figure1: Sequence alignment of resulting *nad1*-fragment, primer region excluded. All *Echinococcus* species potentially present in Armenia and the two *Taenia* spp. identified are added. This region was specifically selected to enable differentiation between species. The sequences obtained from wolf, dog, and lynx are inserted under the corresponding species and show 100% identity.

<i>E. granulosus</i> NC008075	TTAGGTTTGA	GGCTTGTTTT	ATGTGTGTTG	TGATTTTTTG	TGCTTTGTGT	AGTTGTAGGT	ATAATTTAAT	TGATTTTTAT	TATAATTGTT	GATTAAGTTT	G---TTATTA	TTTCCATTAA	TTTATGTGTT	ATTTTAAATA	TGTA
<i>E. equinus</i> NC020374	.....	.....C	.....	.....	.....	T...C	.....GG	.....	...G...	...G...G	----G...	....G...	A...G...	G....GG...	...G
<i>E. ortleppi</i> AB235846	.....	.....	.....	.....	.....	T.....	.....	.....	C..G.AC	.G.GG..G	----G...	....G...	....G...	...C..GG.G	...CG
wolf sample	.....	.....	.....	.....	.....	T.....	.....	.....	C..G.AC	.G.GG..G	----G...	....G...	....G...	...C..GG.G	...CG
<i>E. canadensis</i> G6 MH300930	.....	.....	.....	.....	C...A..	T...G..	.....	.....	.G.AC	.G.G...G	A---G...	...C...	....G...	...C..GG.G	...G
<i>E. canadensis</i> G7 MH301021	.....	.....	.....	.....	C...A.C	T...G..	.....	.....	.G.AC	.G.G...G	A---G...	...C...	....G...	...C..GG.G	...G
<i>E. multilocularis</i> NC000928	.....	A.....	.....	A.....	T.....	TAC.....	...G..	.....	.G..G...	.G...C..	---G..G	....G...	....GA..	G....GG.G	...G
dog sample	.....	A.....	.....	A.....	T.....	TAC.....	...G..	.....	.G..G...	.G...C..	---G..G	....G...	....GA..	G....GG.G	...G
<i>T. latifollis</i> JX860626	A.....	.....	.....A.TT	.G.....	.GA..AA.	TA..TGTC	...A..T.G	.....ATG	TA..GA..	T..G.T.C.C	AGCA..A..	....GGG..	..GT.A.AC	T.A...T..	AA..
lynx sample	-----	.....	.....A.TT	.G.....	.GA..AA.	TA..TGTC	...A..T.G	.....ATG	TA..GA..	T..G.T.C.C	AGCA..A..	-----	-----	-----	-----
<i>T. hydatigena</i> MG282271	A.....	.....	.....T..	T.....	C GT.G...A.G	TA..T...T.	.....GG.	.....A.T	TA.G.GA..	.G..TTC.G	A---G...	....G...G	.G.T.T.AC	T.A...G...	...G
lynx sample	A.....	.....	.....T..	T.....	C GT.G...A.G	TA..T...T.	.....GG.	.....A.T	TA.G.GA..	.G..TTC.G	A---G...	....G...G	.G.T.T.AC	T.A...G...	...G
Identity	*	*****	*****	*	*	*****	** *	*	*	*****	*	*	*	*	*

Supplementary Figure2: Sequence alignment of resulting *cob*-fragment, primer region excluded. All *Echinococcus* species potentially present in Armenia are added. This region was specifically selected to enable differentiation between species. The sequences obtained from wolf and dog are inserted under the corresponding species. The wolf shows 100% identity with *E. canadensis* 6/7, all five *E. multilocularis cob* sequences obtained from dog showed one substitution (arrow) compared to all reference sequences in GenBank.

[illegible]