AF314223 rat unknown locality

 LCO63185 *Rattus norvegicus* unknown locality

 JN258042 *R. rattus* Spain

 JN258044 *R. norvegicus* Spain

 JN258047 *R. rattus* Spain

 JN258043 *R. rattus* Spain

 LCO63186 *R. rattus* Spain

 JN258048 *R. norvegicus* Spain

 KY462777 *R. rattus* South Africa (*n* = 3)

 JN258045 *R. rattus* Spain

 KY462778 *R. norvegicus* South Africa

 JN258046 *R. rattus* Spain

 KY462779 *R. norvegicus* South Africa

 LCO63184 *R. rattus* Madagascar

 LCO63187 *Hymenolepis nana*

**(90/80/0.96)**

**0.02**

**(92/89/-)**

**(88/79/0.96)**

**(99/-/1.00)**

**(a)**

 KY462823 unidentified heligmonellid *Mastomys coucha* South Africa

 KY462824 unidentified heligmonellid *M. coucha* South Africa

 JX877678 *Carolinensis perezponcedeleoni Nyctomys sumichrasti* Mexico

 JX877679 *Hassalstrongylus* sp. *Calomys* sp. Argentina

 KY462825 *Rattus norvegicus* South Africa

 AJ920356 *Nippostrongylus brasiliensis* *Rattus* sp. Australia

 AF036597 *Nippostrongylus brasiliensis* *Rattus norvegicus* UK

 KY462827 *R. rattus* South Africa

 KY462828 *R. tanezumi* South Africa

 EF464551 *Aspiculuris tetraptera* laboratory rodent USA

 KY462829 *R. tanezumi* South Africa

 EF464553 *Syphacia muris* laboratory rodent USA

 KY462826 *M. coucha* South Africa (n=2)

 EF464554 *Syphacia obvelata* laboratory rodent USA

 KY462830 *Protospirura durandi* n. sp *M. coucha* South Africa.

 HQ536017 *Moniliformis moniliformis*

**(79/-/-)**

**0.05**

heligmonellids

oxyurids

**(99/98/-)**

**(100/100/-)**

**(100/99/0.97)**

**(100/100/1.00)**

**(99/97/-)**

**(100/99/1.00)**

**(100/99/1.00)**

**(100/99/1.00)**

**(99/-/0.75)**

**(b)**

**Figure S1**. Phylogenies based on partial fragments of the COI gene region of cestode, *Hymenolepis diminuta* (**a)** and partial fragments of the 18S gene region of heligmonellid, oxyurid and *Protospirura durandi* n. sp. nematodes **(b)** from commensal murid rodents in Gauteng Province, South Africa