

Supplementary Materials

Table S1. The information of primers for PCR.

Species	Genetic Marker	Primer	Primer Sequence	Annealing Temperature (°C)	Length (bp)	Reference
Rodent	<i>Cytb</i>	L14723	5' - CCAATGACATGAAAAATCATCGTT - 3'	52	1140	[71]
		H15915	5' - TCTCCATTCTGGTTTACAAGAC - 3'			
Rodent	<i>COI</i>	COIF	5' - TTGCAATTCGATGTGATT - 3'	50-60	1542	[22]
		COIR	5' - ATGATGCTGGCTTGAAAC - 3'			
Rodent	<i>GHR</i>	GHR5	5' - GGCRTTCATGAYAACTACAAAC-CTGACYTC - 3'	53-61	921	[72]
		GHR6	5' - GAGGAGAGGAACCTTCTTTTT-WTCAGGC - 3'			
Rodent	<i>FGB</i>	β17-mammL	5' - ACCCCAGTAGTATCTGCCGTTT-GGATT - 3'	60	204	[73]
		βfib-mammU	5' - CACAACGGCATGTTCTTCAGCAC - 3'			
<i>Taeniidae</i>	<i>COI</i>	COIF	5' - TTGAATTTGCCACGTTTGAATGC - 3'	52	880	[74]
		COIR	5' - GAACCTAACGACATAACATAATGA - 3'			
<i>Taeniidae</i>	<i>NDI</i>	JP11	5' - AGATTCGTAAGGGGCCTAATA - 3'	55	500	[75]
		JP12	5' - ACCACTAACTAATTCACCTTC - 3'			
<i>Echinococcus multilocularis</i>	<i>COI</i>	Em1	5' - GTCATATTTGTTTAAAGTATAAGTGG - 3'	52	243	[76]
		Em2	5' - CACTCTTATTTACACTAGAAATTAA - 3'			
<i>Echinococcus multilocularis</i>	<i>NDI</i>	EmF19/3	5' - TAGTTGTTGATGAAGCTTGTTG - 3'	53	207	[77]
		EmR6/1	5' - ATCAACCATGAAAACACAT-ATACAAC - 3'			
<i>Echinococcus shiquicus</i>	<i>COI</i>	Es1	5' - GTTGGTTACGTTACCGGT - 3'	52	420	[74]
		Es2	5' - TCTTATTAACATTTGAATTCAAC - 3'			
<i>Echinococcus shiquicus</i>	<i>NDI</i>	EsF50	5' - TTATTCTCAGTCTCGTAAGGGTCCG - 3'	60	442	[77]
		EsR73	5' - CAATAACCAACTACATCAATAATT - 3'			
<i>Echinococcus granulosus</i>	<i>NDI</i>	Eg1F81	5' - GTTTTTGGCTGCCGCCAGAAC - 3'	62	226	[77]
		Eg1R83	5' - AATTAATGGAAATAA-TAACAACTTAATCAACAAT - 3'			
<i>Echinococcus granulosus</i>	Genome	EgG1F	5' - GAATGCAAGCAGCAGATG - 3'	55	113	[78]
		EgG1R	5' - GAGATGAGTGAGAAGGAGTG - 3'			

Table S2. PCR reaction program.

Genetic Marker	Pre-Denaturation	Denaturation	Annealing	Extension	Cycles	Final-Extension
<i>Cytb</i>	9 °C 3 min	94 °C 30 s	55°C 30s	72 °C 75s	35	725 min
<i>COI</i>	9 °C 3min	95 °C 45 s	605060s(Decrease by 0.5per cycle)	72 °C 90s	20	7210 min
		95 °C 45 s	5060s	72 °C 90s	20	
<i>GHR</i>	9 °C 5 min	95 °C 30 s	615330s(Decrease by 2every 5 cycles)	72 °C 60s	25	725 min
<i>FGB</i>	9°C 5 min	94 °C 60 s	6030s	72 °C 60s	30	727min

Table S3. Details of the sequences we downloaded from GenBank.

Accession number	Genetic marker	Species	Region	References/Author
KP190222	<i>Cytb</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190223	<i>Cytb</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190224	<i>Cytb</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190225	<i>Cytb</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KX455506	<i>Cytb</i>	<i>Neodon leucurus</i>	-	-
KU214679	<i>Cytb</i>	<i>Neodon fuscus</i>	Dari, Qinghai, China	-
KU214680	<i>Cytb</i>	<i>Neodon fuscus</i>	Dari, Qinghai, China	-
KU214681	<i>Cytb</i>	<i>Neodon fuscus</i>	Dari, Qinghai, China	-
KU214682	<i>Cytb</i>	<i>Neodon fuscus</i>	Dari, Qinghai, China	-
KU214683	<i>Cytb</i>	<i>Neodon fuscus</i>	Dari, Qinghai, China	-
JF906122	<i>Cytb</i>	<i>Neodon fuscus</i>	-	[79]
KU214684	<i>Cytb</i>	<i>Neodon irene</i>	Guide, Qinghai, China	-
KU214685	<i>Cytb</i>	<i>Neodon irene</i>	Guide, Qinghai, China	-
KU214686	<i>Cytb</i>	<i>Neodon irene</i>	Guide, Qinghai, China	-
KU214687	<i>Cytb</i>	<i>Neodon irene</i>	Guide, Qinghai, China	-
KU214688	<i>Cytb</i>	<i>Neodon irene</i>	Guinan, Qinghai, China	-
KU214689	<i>Cytb</i>	<i>Neodon irene</i>	Guinan, Qinghai, China	-
AM392370	<i>Cytb</i>	<i>Neodon irene</i>	-	[81]
JF906127	<i>Cytb</i>	<i>Neodon irene</i>	-	[79]
HQ123595	<i>Cytb</i>	<i>Neodon irene</i>	Luding, Sichuan, China	[23]
HQ123596	<i>Cytb</i>	<i>Neodon irene</i>	Luding, Sichuan, China	[23]
HQ123597	<i>Cytb</i>	<i>Neodon irene</i>	Luding, Sichuan, China	[23]
HQ123611	<i>Cytb</i>	<i>Neodon irene</i>	Dege, Sichuan, China	[23]
HQ123614	<i>Cytb</i>	<i>Neodon irene</i>	Dege, Sichuan, China	[23]
HQ123616	<i>Cytb</i>	<i>Neodon irene</i>	Dege, Sichuan, China	[23]
HQ123619	<i>Cytb</i>	<i>Neodon irene</i>	Yajiang, Sichuan, China	[23]
HQ123599	<i>Cytb</i>	<i>Neodon sikimensis</i>	Linzhi, Tibet, China	[23]
HQ123600	<i>Cytb</i>	<i>Neodon sikimensis</i>	Linzhi, Tibet, China	[23]
HQ123603	<i>Cytb</i>	<i>Neodon sikimensis</i>	Linzhi, Tibet, China	[23]
HQ123604	<i>Cytb</i>	<i>Neodon sikimensis</i>	Linzhi, Tibet, China	[23]
HQ123605	<i>Cytb</i>	<i>Neodon sikimensis</i>	Linzhi, Tibet, China	[23]
KU214690	<i>Cytb</i>	<i>Alexandromys limnophilus</i>	Menyuan, Qinghai, China	-
KU214691	<i>Cytb</i>	<i>Alexandromys limnophilus</i>	Menyuan, Qinghai, China	-
KU214692	<i>Cytb</i>	<i>Alexandromys limnophilus</i>	Menyuan, Qinghai, China	-
KU214693	<i>Cytb</i>	<i>Alexandromys limnophilus</i>	Menyuan, Qinghai, China	-
KU214694	<i>Cytb</i>	<i>Alexandromys limnophilus</i>	Menyuan, Qinghai, China	-
KM067270	<i>Cytb</i>	<i>Cricetulus longicaudatus</i>	Qinhai, China	[80]
DQ673914	<i>Cytb</i>	<i>Rattus norvegicus</i>	-	[81]
KP190277	<i>COI</i>	<i>Neodon fuscus</i>	Zhiduo, Qinghai, China	[22]
KP190278	<i>COI</i>	<i>Neodon fuscus</i>	Zhiduo, Qinghai, China	[22]
KP190279	<i>COI</i>	<i>Neodon fuscus</i>	Zhiduo, Qinghai, China	[22]
KP190280	<i>COI</i>	<i>Neodon fuscus</i>	Yushu, Qinghai, China	[22]
KP190288	<i>COI</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190289	<i>COI</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190290	<i>COI</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190291	<i>COI</i>	<i>Neodon leucurus</i>	Lasa, Tibet, China	[22]
KP190292	<i>COI</i>	<i>Neodon leucurus</i>	Zhiduo, Qinghai, China	[22]

KM067270	COI	<i>Cricetulus longicaudatus</i>	Qinhai, China	[80]
DQ673914	COI	<i>Rattus norvegicus</i>	-	[81]
KX455565	GHR	<i>Neodon leucurus</i>	-	-
AY294924	GHR	<i>Neodon irene</i>	Yushu, Qinghai, China	[82]
GQ374493	GHR	<i>Neodon irene</i>	-	[79]
GQ374495	GHR	<i>Neodon fuscus</i>	-	[79]
MG685559	GHR	<i>Cricetulus longicaudatus</i>	Luun, central part, Mongolia	[83]
MG685560	GHR	<i>Cricetulus longicaudatus</i>	Qinghai, China	[83]
MG685561	GHR	<i>Cricetulus longicaudatus</i>	Tuva, Russia	[83]
BC103659	GHR	<i>Rattus norvegicus</i>	-	[84]
BC088102	FGB	<i>Rattus norvegicus</i>	-	[84]

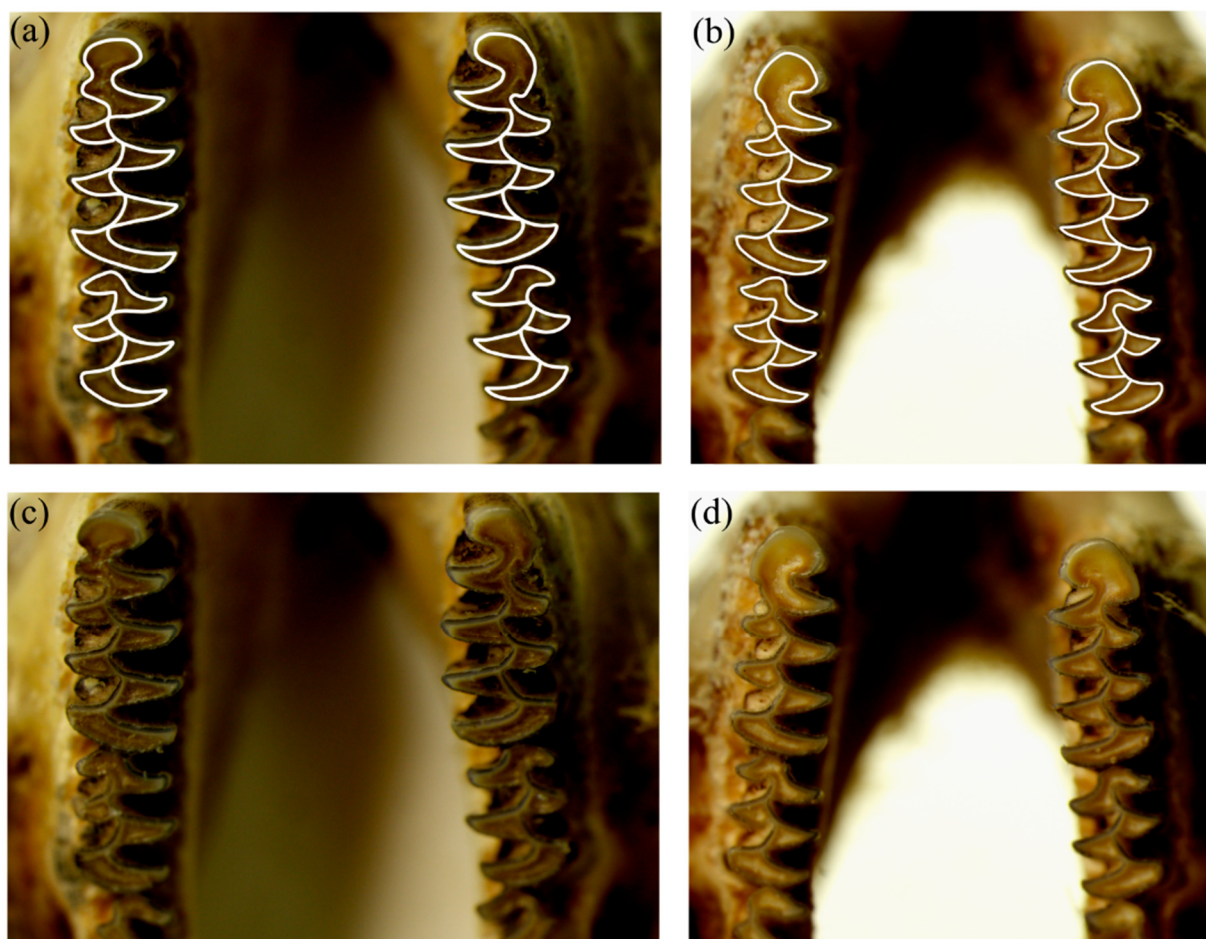


Figure S1. The lower molars of the individuals showed different species characteristics in each side (1.6×). Figure S1 a and S1b showed the morphological characteristics of *N. fuscus* on the left lower molars and *N. leucurus* on the right. Original photos were presented in S1c and S1d.

Table S4. The body and skull measurements of the rodent species.

Measurements	<i>Neodon fuscus</i> <i>n</i> = 33	<i>Neodon leucurus</i> <i>n</i> = 13	<i>Neodon irene</i> <i>n</i> = 4	Unidentified <i>n</i> = 7	<i>Alexandromys</i> <i>limnophilus</i> <i>n</i> = 12	<i>Cricetulus</i> <i>longicaudatus</i> <i>n</i> = 3
WT	42.62(26.30–76.60)	35.03(24.60–52.40)	52.98(35.90–70.90)	39.90(28.80–63.90)	25.54(18.00–45.50)	30.23(25.70–36.70)
HBL	110.27(94.53–135.13)	104.09(92.94–122.83)	115.13(99.12–130.34)	105.60(98.09–117.2)	95.90(79.77–115.07)	96.56(88.23–106.33)
TL	31.36(24.68–36.67)	29.52(24.16–33.81)	33.71(32.34–35.57)	30.69(25.67–36.62)	31.59(27.41–36.55)	32.56(29.86–35.40)
EL	12.34(11.01–14.52)	11.73(8.93–14.19)	12.80(11.38–14.10)	13.43(13.10–13.76)	13.84(12.52–16.90)	17.80(17.69–17.90)
FFL	12.14(10.34–13.24)	12.16(11.25–13.14)	12.54(11.43–13.07)	12.26(12.12–12.40)	8.95(8.24–9.67)	9.90(9.31–10.48)
SH	35.88(30.91–39.78)	35.39(31.49–39.35)	40.39(32.99–47.62)	40.63(36.84–44.42)	36.96(33.93–40.55)	39.40(38.79–40.00)
HLL	37.53(30.98–43.96)	37.09(30.31–41.39)	45.54(35.41–55.41)	38.70(38.13–39.26)	42.82(38.40–46.74)	39.30(38.24–40.35)
HFL	21.19(19.15–25.50)	20.24(19.22–22.22)	20.87(19.98–22.30)	20.52(20.05–20.98)	17.87(16.35–19.16)	17.95(17.86–18.04)
GSL	28.29(25.92–31.87)	26.94 (24.84–29.14)	28.46(27.11–29.93)	28.16(26.74–31.49)	24.75(23.43–26.01)	27.73(26.86–28.41)
ZB	16.68(14.93–19.16)	15.69(14.14–17.83)	17.13(15.97–17.78)	16.13(13.95–18.11)	14.09(13.02–16.26)	14.25(14.25–14.25)
BRO	5.31(4.83–6.11)	5.07(4.72–5.49)	5.41(5.19–5.74)	5.28(5.03–5.87)	4.55(4.20–5.03)	5.09(4.83–5.55)
LMxt	6.03(5.62–6.90)	5.68(5.34–6.32)	6.13(5.81–6.62)	5.93(5.59–6.39)	5.86(5.53–6.27)	4.13(4.07–4.22)
ORL	10.09(9.14–11.34)	9.68(9.21–10.84)	10.11(9.40–10.64)	10.04(9.47–10.72)	9.01(8.53–9.69)	9.15(8.27–10.02)
BM1	1.34(1.22–1.50)	1.31(1.23–1.38)	1.37(1.18–1.55)	1.36(1.25–1.47)	1.28(1.19–1.47)	1.19(1.13–1.23)
M1M	5.59(5.03–6.16)	5.39(5.16–5.85)	5.78(5.52–6.08)	5.57(5.36–5.91)	4.89(4.71–5.27)	5.66(5.57–5.82)
LIF	4.83(4.05–6.09)	4.72(4.18–5.44)	5.09(4.78–5.68)	4.91(4.30–5.39)	4.13(3.54–4.71)	5.20(4.98–5.57)
BIF	1.10(0.66–1.34)	0.97(0.81–1.16)	1.18(1.10–1.27)	1.03(0.87–1.33)	0.88(0.72–1.09)	1.47(1.22–1.68)
SKH	11.65(10.79–12.50)	11.24(10.61–12.09)	12.05(11.70–12.30)	11.88(11.20–12.74)	10.66(9.94–11.53)	10.34(9.94–10.82)
BB	13.81(12.38–15.12)	13.42(12.36–14.19)	13.81(13.26–14.13)	14.34(13.21–16.83)	11.94(11.06–13.57)	11.52(11.23–11.70)
LMbT	5.88(5.24–6.72)	5.59(5.01–6.11)	5.92(5.65–6.39)	5.70(5.45–6.25)	5.68(5.22–5.84)	4.18(4.14–4.20)

The unit of WT is g and the units of other measurements are mm. Unidentified represents the individuals whose morphological characteristics of bilateral lower molars on both sides are inconsistent. Measurements: WT (weight), HBL (head and body length), TL (tail length), EL (ear length), FFL (forefoot length), SH (shoulder height), HLL (hind leg length), HFL (hind foot length), GSL (greatest skull length), ZB (zygomatic breadth), BRO (rostrum breadth), LMxT (length of maxillary tooththrow), ORL (orbital length), BM1 (breadth of first maxillary molars), M1M (external alveolar breadth), LIF (length of incisive foramen), BIF (breadth of incisive foramen), SKH (skull height), BB (breadth of braincase), LMbT (length of the mandibular tooththrow).

Table S5. Principal components analysis of the variables that responded to the morphological data of rodent species.

Variable	Component		
	PC1	PC2	PC3
WT	0.708	0.553	0.294
HBL	0.643	0.538	0.246
TL	0.280	0.244	0.593
EL	0.070	−0.431	0.742
FFL	0.700	0.266	−0.466
SH	0.165	0.056	0.730
HLL	−0.199	0.182	0.780
HFL	0.615	0.307	−0.440
GSL	0.878	0.365	0.143
ZB	0.722	0.560	−0.015
BRO	0.860	0.353	0.011
LMxT	0.081	0.923	0.035
ORL	0.710	0.583	0.032
BM1	0.314	0.655	0.071
M1M	0.851	0.237	0.015
LIF	0.735	−0.141	0.136
BIF	0.709	−0.140	0.324

SKH	0.628	0.593	-0.051
BB	0.665	0.590	-0.140
LMbT	0.103	0.929	-0.010
Eigenvalues	9.931	2.822	2.103
Percent of variance (%)	49.657	14.112	10.513
Accumulative contribution rate (%)	49.657	63.769	74.282

Loadings of variables with absolute values > 0.6 were marked in bold. Measurements: WT (weight), HBL (head and body length), TL (tail length), EL (ear length), FFL (forefoot length), SH (shoulder height), HLL (hind leg length), HFL (hind foot length), GSL (greatest skull length), ZB (zygomatic breadth), BRO (rostrum breadth), LMxT (length of maxillary tooththrow), ORL (orbital length), BM1 (breadth of first maxillary molars), M1M (external alveolar breadth), LIF (length of incisive foramen), BIF (breadth of incisive foramen), SKH (skull height), BB (breadth of braincase), LMbT (length of the mandibular tooththrow).

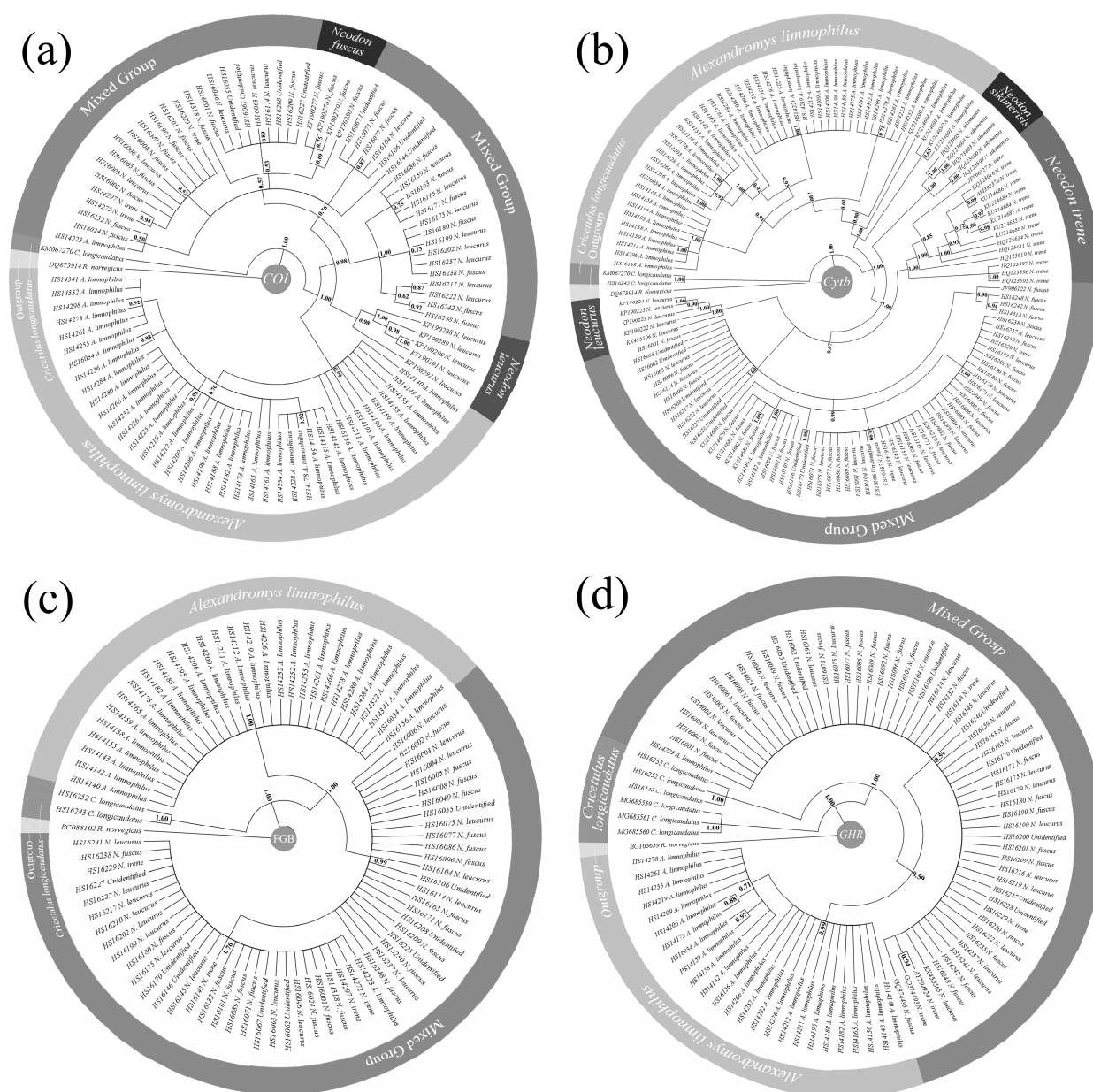


Figure S2. BI tree of five rodent species in Shiqu based on COI (a), Cyth (b), GHR (d) and FGB (c) gene sequences.

Table S6. Statistical value of the χ^2 test was used to compare the difference in the prevalence of *Echinococcus multilocularis* (Gray font, Lower-left), *E. shiquicus* (Dark font, Lower-left) and *Echinococcus* species (Dark font, Upper-right) between different small mammal species.

	<i>Neodon fuscus</i>	<i>Ochotona curzoniae</i>	<i>Neodon leucurus</i>	<i>Alexandromys limnophilus</i>	Rodentia
<i>Neodon fuscus</i>		$\chi^2 = 0.000, P = 1.000$	$\chi^2 = 1.690, P = 0.194$	$\chi^2 = 14.244, P < 0.001$	$\chi^2 = 0.030, P = 0.862$
<i>Ochotona curzoniae</i>	$\chi^2 = 0.951, P = 0.442$ $\chi^2 = 1.279, P = 0.258$		$\chi^2 = 1.682, P = 0.195$	$\chi^2 = 12.582, P < 0.001$	$\chi^2 = 0.003, P = 0.960$
<i>Neodon leucurus</i>	$\chi^2 = 1.679, P = 0.195$ $\chi^2 = 0.014, P = 0.907$	$\chi^2 = 0.615, P = 0.433$ $\chi^2 = 0.674, P = 0.412$		$\chi^2 = 14.491, P < 0.001$	$\chi^2 = 2.082, P = 0.149$
<i>Alexandromys limnophilus</i>	$\chi^2 = 4.135, P = 0.042$ $\chi^2 = 8.278, P = 0.004$	$\chi^2 = 6.515, P = 0.011$ $\chi^2 = 3.520, P = 0.061$	$\chi^2 = 6.949, P = 0.008$ $\chi^2 = 4.880, P = 0.027$		$\chi^2 = 13.645, P < 0.001$
Rodent assemblage	$\chi^2 = 0.000, P = 1.000$ $\chi^2 = 0.091, P = 0.763$	$\chi^2 = 0.627, P = 0.429$ $\chi^2 = 0.634, P = 0.426$	$\chi^2 = 1.693, P = 0.193$ $\chi^2 = 0.138, P = 0.710$	$\chi^2 = 4.416, P = 0.037$ $\chi^2 = 7.041, P = 0.008$	

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