

Table S1. Key to names of Siwalik murine species used in this study in comparison to Jacobs and Flynn (2005). Major species are those known by five or more specimens of the upper first molars (M1). Minor species are those known by less than five specimens of M1.

Locality	Age (Ma)	Jacobs and Flynn (2005)	Major species (n>5 by M1)	Minor species (n<5 by M1)
DP13	6.5	<i>Pararoberti robertsi</i> <i>Karnimata huxleyi</i> <i>Mus auctor</i>	<i>Pararoberti robertsi</i> <i>Karnimata huxleyi</i> <i>Mus auctor</i>	
YGSP 581	7.2		<i>Karnimata</i> sp. <i>Mus</i> sp.	
YGSP 931, 921	7.4	<i>Parapelomys</i> cf. <i>P. robertsi</i> <i>Karnimata</i> sp. <i>Mus</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp. <i>Mus</i> sp.	<i>Parapelomys</i> sp.
YGSP 457	7.4	<i>Parapelomys</i> cf. <i>P. robertsi</i> <i>Karnimata</i> sp. <i>Mus</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp. <i>Mus</i> sp.	<i>Parapelomys</i> sp.
YGSP 898	7.8			morphotype 4 morphotype 8
YGSP 547	8.0			<i>Parapelomys</i> sp. <i>Karnimata</i> sp. morphotype 8 <i>Mus</i> sp.
YGSP 24	8.2	<i>Parapelomys</i> sp. <i>Karnimata</i> sp. <i>Progonomys</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	large <i>Karnimata</i> sp.
YGSP 387	8.7			<i>Karnimata</i> sp. morphotype 7 <i>Progonomys</i> sp.
YGSP 388	8.8	large <i>Karnimata</i> sp. <i>Karnimata</i> sp. <i>Progonomys</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	large <i>Karnimata</i> sp. morphotype 4 morphotype 7
YGSP 367	9.0	large <i>Karnimata</i> sp. <i>Karnimata darwini</i> <i>Progonomys debruijini</i>	<i>Karnimata darwini</i> <i>Progonomys debruijini</i>	
YGSP 182	9.2	<i>Parapodemus</i> sp. large <i>Karnimata</i> sp. <i>Karnimata darwini</i> <i>Progonomys debruijini</i>	<i>Karnimata darwini</i> <i>Progonomys debruijini</i>	<i>Parapodemus</i> sp. large <i>Karnimata</i> sp.
YGSP 410	9.4		<i>Karnimata darwini</i> <i>Progonomys debruijini</i>	
YGSP 311	10.1	<i>Karnimata</i> sp. <i>Progonomys</i> sp. unnamed sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	morphotype 2
YGSP 450	10.2	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	
YGSP 259	10.5	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	<i>Karnimata</i> sp. <i>Progonomys</i> sp.	morphotype 1

YGSP 797	11.2	? <i>Karnimata</i> sp. <i>Progonomys hussaini</i>	? <i>Karnimata</i> sp. <i>Progonomys hussaini</i>	
YGSP 791	11.2		same as Y76	
YGSP 809	11.3		same as Y76	
YGSP 76	11.4	<i>Progonomys hussaini</i>	<i>Progonomys hussaini</i>	
YGSP 634	12.3	<i>Progonomys</i> sp.		<i>Progonomys</i> sp.
YGSP 496	12.4	near <i>Progonomys</i>	near <i>Progonomys</i>	
YGSP 825	12.8		<i>Antemus chinjiensis</i>	
YGSP 690	13.1	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	
YGSP 718	13.2	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	
YGSP 651	13.6	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	
YGSP 430, 41	13.6	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	
YGSP 59, 640, 641	13.7	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	
YGSP 491	13.8	<i>Antemus chinjiensis</i>	<i>Antemus chinjiensis</i>	