

**Supporting Information 6: Polymorphic Information Content (PIC) at nine cross-species microsatellite loci based on at most 20 individuals per species.**

	<b>C2-1218*</b>	<b>C2-6868*</b>	<b>C2-1915*</b>	<b>C4-1514*</b>	<b>C6-1112</b>	<b>C9-1918</b>	<b>C14-9692</b>	<b>C15-3531</b>	<b>C17-4243*</b>
<b>Human</b>	0.78	0	0.56	0.22	0.17	0.38	0.14	0.22	0
<b>Chimpanzee</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Mouse</b>	0.71	0.90	0.87	0.46	0.40	0	0.45	0.11	0.53
<b>Rat</b>	0.29	0	0.28	0	0.47	n/a	n/a	0	0
<b>Dog</b>	0.79	0.46	0.73	0.11	n/a	n/a	0	n/a	0
<b>Cat</b>	0.78	n/a	0.65	n/a	n/a	n/a	n/a	n/a	0
<b>Cow</b>	0.05	0	0.20	0	0	0.37	0	0.05	0
<b>Sheep</b>	0.78	0.33	0.57	0	0	0.09	0.51	n/a	0
<b>Dolphin</b>	0.53	n/a	0.76	0.11	0.21	0.48	0.23	0	0.31
<b>Pilot Whale</b>	0	0	0.73	0	0	0.62	0	0	0
<b>Hedgehog</b>	0.62	0.10	0.46	0.36	0.25	0	0.25	0.76	0
<b>Shrew</b>	0.84	0.36	0	0	n/a	n/a	n/a	n/a	0.23
<b>Dugong</b>	0.50	0.05	0	0	0	0	n/a	0	0.35
<b>Tenrec</b>	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	0.45
<b>Tammar wallaby</b>	0.77	n/a	0.06	0	0	n/a	n/a	0.90	0.60
<b>Quoll</b>	0.10	0.72		0	0	n/a	0	n/a	0
<b>Platypus</b>	0.12	0.64	0.32		0	n/a	0	n/a	0
<b>Echidna</b>	0.51	0.58		0	0	0	0.69	0.08	0

\* Sequenced loci; n/a : data not available