

Supporting Information 8: Allele length, and microsatellite length and sequence variation

in at most four individuals for five cross-species microsatellite loci. L_{allele} : allele length (bp);

L_{micro} : microsatellite length (bp); an individual (Indiv 1) is used as a reference to measure length variation (+/-).

C2-1218

Species	Indiv	L_{allele}	L_{micro}	Sequence
Human	1	280	48	(CA) ₂₄
	2,4	+1	0	(CA) ₂₄
	3	-2	-2	(CA) ₂₃
Chimp	1,3	<i>n/a</i>	50	(CA) ₂₅
	2		-8	(CA) ₁₉
	4		+4	(CA) ₂₇
Mouse	1	291	64	(CA) ₁₈ (CCACACC) ₃ C(CA) ₃
	2	+5	+5	(CA) ₁₇ (CCACACC) ₄ C(CA) ₃
	3	+9	+9	(CA) ₁₉ (CCACACC) ₄ C(CA) ₃
	4	+7	+7	(CA) ₁₈ (CCACACC) ₄ C(CA) ₃
Rat	1,2,3,4	276	49	(CA) ₁₇ CTA(CA) ₆
Dog	1	274	44	(CA) ₄ TA(CA) ₁₃ CG(CA) ₃
	2,4	-6	-6	(CA) ₄ TA(CA) ₁₀ CG(CA) ₃
	3	-4	-4	(CA) ₄ TA(CA) ₁₁ CG(CA) ₃
Cat	1	265	38	(CA) ₁₉
	2,3,4	+6	+2	(CA) ₂₀
Cow	1	269	28	(CA) ₁₂ (GA) ₂
	3,4	0	0	(CA) ₁₃ GA
Sheep	1	276	43	(CA) ₁₁ CG(CA) ₄ (C) ₃ (CA) ₄
	2,4	-6	-6	(CA) ₁₃ (C) ₃ (CA) ₄
	3	+2	+2	(CA) ₁₂ CG(CA) ₄ (C) ₃ (CA) ₄
Dolphin	1	264	32	(CA) ₁₆
	2	+4	+4	(CA) ₁₈
Pilot Whale	1,2,3,4	265	34	(CA) ₈ TA(CA) ₈
Hedgehog	2	260	40	(CA) ₂₀
	3	0	+4	(CA) ₂₂
	4	+8	-2	(CA) ₁₉
Dugong	1	270	38	(CA) ₄ CG(CA) ₁₄
	2,4	+1	+2	(CA) ₄ CG(CA) ₁₅
	3	+2	0	(CA) ₄ CG(CA) ₁₅
T. wallaby	1,3	251	41	(CA) ₁₃ CG(CA) ₅ ACA
Platypus	2,3,4	245	12	(CA) ₄ (A) ₄

C2-6868

Species	Indiv	L_{allele}	L_{micro}	Sequence
Human	1,2	228	42	(CT) ₅ TT(CT) ₄ (T) ₄ C(CT) ₄ CC(CT) ₂ TTCT
Chimp	1,2,3,4	<i>n/a</i>	42	(CT) ₅ TT(CT) ₄ (T) ₄ C(CT) ₄ CC(CT) ₂ TTCT
Rat	2,3	236	50	(CT) ₇ CC(CT) ₆ (TC) ₂ (CT) ₄ CC(CT) ₄
Dog	4	262	76	(CT) ₈ CCTT(CT) ₁₂ TT(CT) ₃ TTCC(CT) ₅ CC(CT) ₄
Cow	1,2,3,4	231	44	(CT) ₅ TT(CT) ₅ (T) ₄ (CT) ₄ CC(CT) ₄
Sheep	2	231	44	(CT) ₅ TT(CT) ₅ (T) ₄ (CT) ₄ CC(CT) ₄
	4	-2	-2	(CT) ₅ TT(CT) ₄ (T) ₄ (CT) ₄ CC(CT) ₄
Dolphin	3,4	<i>n/a</i>	56	(CT) ₅ GTC(T) ₃ (CT) ₉ (T) ₃ C(CT) ₄ CC(CT) ₄
Pilot Whale	3	243	56	(CT) ₅ GTC(T) ₃ (CT) ₉ (T) ₃ C(CT) ₄ CC(CT) ₄
Hedgehog	3,4	230	44	(CT) ₅ AT(CT) ₄ (T) ₃ C(CT) ₅ CC(CT) ₄
Shrew	1,4	256	68	(CT) ₃ TT(CT) ₇ TT(CT) ₄ CCTT(CT) ₅ TCTT(CT) ₄ CC(CT) ₄
	2	-2	0	(CT) ₃ TT(CT) ₇ TT(CT) ₄ CCTT(CT) ₅ TCTT(CT) ₄ CC(CT) ₄
Dugong	1,3,4	225	40	(CT) ₅ TT(CT) ₃ (T) ₃ C(CT) ₄ TC(CT) ₄

C2-1915

Species	Indiv	L _{allele}	L _{micro}	Sequence
Human	1,2,3,4	283	49	CTGTGC(CT) ₁₄ TT(TC) ₅ TTC
Chimp	1,2,3	<i>n/a</i>	37	CTGTGC(CT) ₁₄ TTC
	4		+2	CTGTGC(CT) ₁₅ TTC
Rat	2,3,4	273	57	(CT) ₂ GC(CT) ₂₅ C
Cow	1,3,4	169	50	(CT) ₂ GC(CT) ₂ T(CT) ₈ CC(CT) ₉ TTC
	2	-2	0	(CT) ₂ GC(CT) ₂ T(CT) ₈ CC(CT) ₉ TTC
Sheep	2,4	181	58	(CT) ₂ GC(CT) ₂ T(CT) ₁₂ CC(CT) ₉ TTC
	3	-8	-8	(CT) ₂ GC(CT) ₂ T(CT) ₁₀ CC(CT) ₈ C
Dolphin	1,3,4	172	47	(CT) ₂₂ TTC
	2	-4	-4	(CT) ₂₆ TTC
Hedgehog	1,4	168	49	(CT) ₂ GCCTGCTT(CT) ₁₅ TTC(T)3C
	2,3	+2	+2	(CT) ₂ GCCTGCTT(CT) ₁₆ TTC(T)3C
Shrew	1	280	99	CAT(TC) ₂ TG(TC) ₂ TG(CCTCT) ₂ GC(CTCTGT) ₂ (CT) ₄ (GTCTCT) ₂ (CTGTCT) ₂ \\
	3	0	+2	\\(CT) ₆ (C) ₃ (T) ₃ (CCCTCT) ₁ (CT) ₂ TTC
				CAT(TC) ₂ TG(TC) ₂ TG(CCTCT) ₂ GC(CTCTGT) ₂ (CT) ₄ (GTCTCT) ₂ (CTGTCT) ₂ \\
				\\(CT) ₇ (C) ₃ (T) ₃ (CCCTCT) ₁ (CT) ₂ TTC
Dugong	1,2,3,4	274		(CT) ₂ GC(CT) ₈ GC(CT) ₃ TT(CT) ₃ CC(CT) ₇ TTC
Platypus	1,4	223	103	CTGTTC(T) ₆ C(A) ₅ (T) ₅ ATC(CCT) ₈ (CTT) ₂ T(CT) ₂ T(CT) ₂ CC(CT) ₄ TT(CT) ₅ (T)3A(T) ₇ CCTC
	2	-10	-9	CTGTTC(T) ₆ C(A) ₅ (T) ₅ ATC(CCT) ₅ (CTT) ₂ T(CT) ₂ T(CT) ₂ CC(CT) ₄ TT(CT) ₅ (T)3A(T) ₇ CCTC
	3	-3	-3	CTGTTC(T) ₆ C(A) ₅ (T) ₅ ATC(CCT) ₇ (CTT) ₂ T(CT) ₂ T(CT) ₂ CC(CT) ₄ TT(CT) ₅ (T)3A(T) ₇ CCTC

C4-1514

Species	Indiv	L _{allele}	L _{micro}	Sequence
Human	1,2,3,4	283	72	GA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₄ CGC(A) ₃ (CA) ₈ CT(CA) ₂ AACA
Chimp	1,2	<i>n/a</i>	70	GA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₄ CGC(A) ₃ (CA) ₁₂ AACA
	3		+2	GA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₄ CGC(A) ₃ (CA) ₁₁ AACA
	4		-1	GA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₄ CGC(A) ₃ (CA) ₉ C(AACA) ₂
Mouse	1,4	315	104	GATA(CA) ₅ AAGACT(CA) ₂ TA(C) ₄ TGTA(CA) ₂ TACATTCCT(GCAC) ₂ A(CG) ₃ (CA) ₄ //
	2,3	+2	+2	\\(CT) ₂ (CA) ₁₀ GTCTCG(CA) ₂
				GATA(CA) ₅ AAGACT(CA) ₂ TA(C) ₄ TGTA(CA) ₂ TACATTCCT(GCAC) ₂ A(CG) ₄ (CA) ₃ //
				\\CT(CA) ₁₂ GTCTCG(CA) ₂
Rat	1,2,3	274	66	GATA(CA) ₆ AAGACT(CA) ₅ (C) ₃ TTGTA(CA) ₃ CC(CA) ₅ CC(CA) ₅
	4	0	0	GATA(CA) ₆ AAGACT(CA) ₄ CTTGTA(CA) ₃ CC(CA) ₅ CC(CA) ₅
Dog	1,2,3,4	297	86	GA(CA) ₃ AA(CA) ₃ CC(TG) ₂ (CA) ₂ TA(CA) ₈ CGCAACG(CA) ₂ TA(CA) ₃ CG(CA) ₂ TA//
				\\(CA) ₅ AACA
Cow	1,2,3,4	280	70	GA(CA) ₃ (A) ₄ (CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₂ CGC(A) ₃ (CA) ₅ TACACGCTCACG(CA) ₂ TA//
				\\CA(C) ₃ G
Sheep	1,2,3,4	292	80	TAGA(CA) ₃ (A) ₄ (CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₂ CGC(A) ₃ (CA) ₅ TACACGCTCACGA(TA) ₂ //
				\\(CA) ₃ TACA(C) ₃ G
Dolphin	2	291	79	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₆ AACACGCATA(CA) ₁₀ TA(CA) ₃
	3,4	0	0	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₆ AACACGCATA(CA) ₇ CG(CA) ₂ TA(CA) ₃
P. Whale	1,2,3	292	79	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₆ AACACGCATA(CA) ₇ CG(CA) ₂ TA(CA) ₃
Hedgehog	1,3	322	117	(CA) ₅ (A) ₃ TA(CA) ₃ CC(T) ₃ (GC) ₂ AC(GC) ₂ GT(GC) ₃ A(CA) ₂ TA(CA) ₁₅ TATGC(A) ₃ (CA) ₇ //
				\\TA(CA) ₃ AATA
	2,4	-2	-2	(CA) ₅ (A) ₃ TA(CA) ₃ CC(T) ₃ (GC) ₂ AC(GC) ₂ GT(GC) ₃ A(CA) ₂ TA(CA) ₁₄ TATGC(A) ₃ (CA) ₇ //
				\\TA(CA) ₃ AATA
Shrew	1,2,4	281	69	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₄ CG(A) ₃ (CA) ₄ CG(CA) ₂ TA(CA) ₃ GACA
	3	0	0	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TACACG(CA) ₂ CG(A) ₃ (CA) ₄ CG(CA) ₂ //
				\\TA(CA) ₃ GACA
Dugong	1,2,3,4	274	67	CAGA(CA) ₃ AATA(CA) ₂ CC(TG) ₂ (CA) ₂ TA(CA) ₃ AA(CA) ₄ CT(CA) ₃ (CG) ₂ CATAC(A) ₃ CA
Tenrec	1,2,3,4	281	64	AGA(CA) ₄ AA(CA) ₃ CG(TG) ₂ (CA) ₂ TCCAC(GC) ₂ (A) ₃ CACG(CA) ₂ CTCACG(CA) ₄ GATG
T. wallaby	1,2,3,4	281	73	C(A) ₃ (CA) ₅ (CATA) ₂ CCT(TG) ₃ (CA) ₂ CG(CA) ₂ TG(CA) ₂ CT(CA) ₂ (CG) ₂ (CA) ₆ TCAG
Quoll	1,3,4	295	89	CAGA(CA) ₃ TGCCT(G) ₃ TG(CA) ₂ (C) ₃ GCCA(G) ₃ CA(C) ₃ ACGTG(CA) ₂ CG(CA) ₄ (C) ₃ ACG(CGCA) ₂ CAC
				G(CA) ₄ CC
Echidna	1,2,3,4	317	96	(CA) ₃ GACATACCAACG(CA) ₂ TA(CA) ₄ TGCAGGCACG(CA) ₃ GACACG(CA) ₂ C(CA) ₂ (CCCA) ₂ CA(C
				CCACA) ₂ (CA) ₃ GAACA

C17-4243

Species	Indiv	L _{allele}	L _{micro}	Sequence
Human	1,2,3,4	311	56	(TTC) ₂ (TC) ₇ CC(TC) ₅ (C) ₄ (TC) ₃ (T) ₈ (TC) ₂
Dolphin	1,2,3,4	303		(TC) ₂ (T) ₄ (TC) ₃ CC(TC) ₄ (C) ₄ (TC) ₃ (T) ₇ (TC) ₂
Tenrec	1,2,4	316	61	TGTC(T) ₄ (TC) ₅ CC(TC) ₅ (C) ₄ (TC) ₃ CC(TC) ₄ (T) ₇ (TC) ₂
	3	+2	+2	TGTC(T) ₄ (TC) ₆ CC(TC) ₅ (C) ₄ (TC) ₃ CC(TC) ₄ (T) ₇ (TC) ₂
Echidna	1,2,3,4	298	43	(TC) ₂ (T) ₄ (TC) ₄ CCTCGC(TC) ₂ CC(TC) ₃ (T) ₆ CTT
Platypus	1,2,3,4	298	43	(TC) ₂ (T) ₄ (TC) ₄ CCTTGC(TC) ₂ CC(TC) ₃ (T) ₆ CTT