

p-values from pairwise t-tests comparing proportion of sequence in each repeat class  
between each species in orthologous imprinted regions

**Additional data file 5**

Repeat family		Human	Mouse	Dog	Opossum	Platypus
LTRs	Mouse	0.7	-	-	-	-
	Dog	<u>0.01</u>	<u>0.001</u>	-	-	-
	Opossum	0.4	0.2	0.4	-	-
	Platypus	<u><math>6 \times 10^{-9}</math></u>	<u><math>4 \times 10^{-10}</math></u>	<u>0.002</u>	<u><math>6 \times 10^{-6}</math></u>	-
	Chicken	<u><math>2 \times 10^{-7}</math></u>	<u><math>2 \times 10^{-8}</math></u>	<u>0.03</u>	<u>0.0002</u>	0.7
DNA elements	Mouse	<u>0.02</u>	-	-	-	-
	Dog	0.08	0.97	-	-	-
	Opossum	0.2	0.97	1	-	-
	Platypus	<u><math>7 \times 10^{-5}</math></u>	<u>0.02</u>	<u>0.002</u>	<u>0.006</u>	-
	Chicken	<u><math>3 \times 10^{-5}</math></u>	<u>0.006</u>	<u>0.001</u>	<u>0.002</u>	1
Simple repeats	Mouse	<u><math>7 \times 10^{-7}</math></u>	-	-	-	-
	Dog	0.4	<u><math>2 \times 10^{-5}</math></u>	-	-	-
	Opossum	1	<u>0.0004</u>	1	-	-
	Platypus	0.4	<u><math>1 \times 10^{-7}</math></u>	<u>0.01</u>	0.4	-
	Chicken	0.4	<u><math>5 \times 10^{-10}</math></u>	<u>0.0007</u>	0.3	1
Low complexity	Mouse	0.08	-	-	-	-
	Dog	0.2	1	-	-	-
	Opossum	1	1	1	-	-
	Platypus	1	<u>0.05</u>	<u>0.07</u>	1	-
	Chicken	1	0.5	0.6	1	1
SINEs	Mouse	0.1	-	-	-	-
	Dog	0.2	1	-	-	-
	Opossum	1	0.1	0.2	-	-
	Platypus	<u>0.02</u>	<u><math>3 \times 10^{-5}</math></u>	<u><math>8 \times 10^{-5}</math></u>	0.06	-
	Chicken	<u><math>2 \times 10^{-11}</math></u>	<u><math>4 \times 10^{-10}</math></u>	<u><math>2 \times 10^{-11}</math></u>	<u><math>3 \times 10^{-9}</math></u>	<u><math>5 \times 10^{-11}</math></u>
LINEs	Mouse	0.2	-	-	-	-
	Dog	1	0.5	-	-	-
	Opossum	0.9	<u>0.02</u>	0.8	-	-
	Platypus	1	<u>0.01</u>	1	1	-
	Chicken	<u><math>6 \times 10^{-5}</math></u>	0.08	<u>0.001</u>	<u><math>4 \times 10^{-5}</math></u>	<u><math>3 \times 10^{-8}</math></u>
RNAs	Mouse	1	-	-	-	-
	Dog	1	0.2	-	-	-
	Opossum	0.6	<u>0.04</u>	1	-	-
	Platypus	0.8	0.09	1	1	-
	Chicken	0.08	<u>0.005</u>	0.2	0.8	1
Total repeats	Mouse	0.06	-	-	-	-
	Dog	0.3	1	-	-	-
	Opossum	1	0.1	0.3	-	-
	Platypus	1	0.06	0.3	1	-
	Chicken	<u><math>4 \times 10^{-13}</math></u>	<u><math>4 \times 10^{-10}</math></u>	<u><math>3 \times 10^{-7}</math></u>	<u><math>8 \times 10^{-8}</math></u>	<u><math>9 \times 10^{-12}</math></u>

p-values from pairwise t-tests comparing proportion of sequence in each repeat class  
between each species in the whole genome

**Table S2B**

Repeat family		Human	Mouse	Dog	Opossum	Platypus
LTRs	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
DNA elements	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	0.005	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$5 \times 10^{-13}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
Simple repeats	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	0.2
Low complexity sequence	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	0.002	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	0.1	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
SINEs	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	0.01	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
LINEs	Mouse	0.01	-	-	-	-
	Dog	0.1	0.2	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	0.0003	$4 \times 10^{-10}$	$7 \times 10^{-10}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
RNA	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	0.05	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$
Total repeats	Mouse	$2 \times 10^{-16}$	-	-	-	-
	Dog	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-	-
	Opossum	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-	-
	Platypus	$2 \times 10^{-6}$	$4 \times 10^{-8}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	-
	Chicken	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$	$2 \times 10^{-16}$