- Figure S1. Detection of *FAM50B-AS* by Northern blot. Using DIG-labeled probe complementary to the FAM50B-AS, generated using the FAM-19R primer, a band was detected between 1.0 and 2.0kb. The same band was observed when the probe generated using the FAM-19R primer (data not shown). M, 0.1-2kb RNA ladder; CB1 (96-day gestation), conceptus brain; CK, conceptus liver; CTe conceptus tesis; CL, conceptus liver; CB1 (88-day gestation), ATe, adult testis; AL, adult liver; AB, adult brain. The positions of the anticipated products are indicated by the arrows.
 - Figure S2. Imprinting and paternal expression of FAM50B. A, FAM50B imprinting in human adult tissues. Genomic DNA from a normal adult human heterozygous for polymorphism rs6597007 (G/C). cDNA sequencing demonstrates monoallelic expression of FAM50B in adult testis and liver. B, Paternal expression of FAM50B. Pedigree of a matched maternal genotype (C/C) with an informative (G/C) 113-day gestation human conceptus. The cDNA sequences from the brain of the conceptus demonstrate that FAM50B is expressed monoallelically from the paternal allele (representative DNA sequences from one individual out of four matched maternal/informative conceptuses that demonstrated paternal imprinted expression at the FAM50B locus). The position of SNP rs6597007 (G/C) used to determine allelic expression is indicated by the arrows.
 - Figure S3. Allele-specific expression of *FAM50B* and *FAM50B-AS*. A, Strand-specific RACE-PCR results of *FAM50B* and *FAM50B-AS* on an agarose gel. 3' RACE-PCR was performed by independently amplifying the 3' end of *FAM50B* and *FAM50B-AS* containing SNP rs6597007. The results show 526bp products of the *FAM50B* and 1310bp products of the *FAM50B-AS* in human tissues. M, low DNA mass ladder. N, control reactions performed using cDNA prepared in the

absence of primers to eliminate the possibility of genomic DNA and RNA contamination. CB, conceptus brain; AL, adult liver; ATe, adult testis. The positions of the anticipated products are indicated by the arrows. **B**, cDNA sequencing demonstrates monoallelic expression of *FAM50B* and *FAM50B-AS* in human tissues. S, *FAM50B* sense transcript; AS, *FAM50B* antisense transcript.

- Figure S4. Expression of FAM50B and FAM50B-AS. Expression of FAM50B (A) and FAM50B-AS (B) is shown for a panel of human conceptus and adult tissues. Transcription levels were determined using quantitative RT-PCR, normalized to levels of GAPDH determined from parallel runs. CL, conceptus liver; CB, conceptus brain; CG, conceptus gut; CK, conceptus kidney; CP, placenta; CTh, conceptus thymus; CTe, conceptus testis; AB, adult brain; AL, adult liver; ATe, adult testis.
- Figure S5. Imprinting analysis of Human *C6orf145*. Biallelic expression of *C6orf145* demonstrated in cDNA from brain, heart, kidney, lung, muscle, and placenta tissues from a human conceptus heterozygous for polymorphism rs226959 (C/G) in genomic DNA. The position of the SNP used to determine allelic expression is indicated by the arrows.
- Figure S6. FAM50B gene expression in opossum and mouse tissues. Opossum FAM50B is expressed in kidney, liver, embryo and placenta (A), but expression is undetectable in the brain. Mouse FAM50B is expressed in liver, kidney, brain, and testes (B). M, 100 bp DNA ladder.

Figure S7. Allele-specific methylation at the FAM50B locus in testicular germ cell tumors (TGCTs). Clones obtained from bisulfite-treated DNA demonstrate that allele-specific methylation is partially lost in seminomas S2 (A) and S3 (B). CpG sites are represented by circles. Unfilled circle, unmethylated CpG site; filled circle, methylated CpG site.

Table S1. Primers	used in	this	study for	human	FAM50B.
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Primer Name	Nucleotide Sequence (5' to 3')		
FAM-1F	AGGAAGAGAGTTTAGGAAAAGGTTTAGGTTTTTGG	-1406 to -1382	
FAM-1R	CAGTAATACGACTCACTATAGGGAGAAGGCTAAACCTCTAACATACCAATTTCCAC	-1153 to -1128	
FAM-2F	AGGAAGAGAGTTGGGGTTATAAGAAAGAATTATAGGT	-918 to -892	
FAM-2R	CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCTAAAAAAAA	-496 to -473	
FAM-3F	AGGAAGAGAGTTAGGAGTTTGGTATTTTTTTAGGG	-498 to -473	
FAM-3R	CAGTAATACGACTCACTATAGGGAGAAGGCTAAATAACCACCAACCTAACAATATC	-179 to -153	
FAM-4F	AGGAAGAGAGGAAATTGGTGTTTGGTGATATTGTT	-194 to -168	
FAM-4R	CAGTAATACGACTCACTATAGGGAGAAGGCTCTCCCTAACCAAAACCTCCTAC	237 to 260	
FAM-5F	AGGAAGAGAGGGTAGGAGGTTTTGGTTAGGGA	238 to 260	
FAM-5R	CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAATAAAATCCTCCTTAATAAACATAA	714 to 743	
FAM-6F	AGGAAGAGAGGAGGAGATGGAGGTTATTTTAGTTA	558 to 284	
FAM-6R	CAGTAATACGACTCACTATAGGGAGAAGGCTCATCAACAATAACACAACCAATATAAA	1118 to 1144	
FAM-7F	ACAGCGGGGTAGCATCAG	-860 to -843	
FAM-7R	CTGGAGGAGGCGCTTCTG	-641 to -624	
FAM-8F	TTTTGAGGAGAGTGTTAGGTTTTTG	-472 to -495	
FAM-8R	ACTACACTTTAACTCAATATCCCATAA	-998 to -971	
FAM-9F	CTCATTTCTAGGCCCCATCA	1020 to 1039	
FAM-9R	TGGTTTCAATACAGCTCAGCA	1205 to 1225	
FAM-10R	TTTTACAAATATTAATTCA	1453 to 1471	
FAM-11F	GCCTCCTCCTTGCTGTGTAG	1335 to 1354	
FAM-11R	CCCAGCTAAAGCCCACTAGA	1652 to 1671	
FAM-12F	AGATGGAGGTCACCTTCA	551 to 568	
FAM-13F	CCTTGATTTCTTCCCCCAAA	1060 to 1079	
FAM-14F	GCCTCCTCCTTGCTGTGTAG	1335 to 1354	
FAM-14R	TCCATGCTCATAACCACCAG	1277 to 1296	
FAM-15F	CGCGTTTTTCCTCTTTGCT	-28 to -46	
FAM-15R	CCTCGTCCTTCACTTTCTCG	530 to 550	
FAM-16F	GTCAGCTCCCGCGTGTCT	-367 to -351	
FAM-16R	CGCATGGTGCCCTTGTACT	8 to 26	
FAM-17F	GCGCATGGTGCCCTTGTA	10 to 25	
FAM-17R	GGCGCAGAGCTGAGCATT	-79 to -96	
FAM-18F	TCTGGCAGGAAGCTGGTGTCCA	443 to 464	
FAM-18R	TAATACGACTCACTATAGGGCAGCTGGCCAAGCGCCAGCA	261 to 278	
FAM-19F	GTGGGCCCAGTCATGGTTTCA	1218 to1238	
FAM-19R	TAATACGACTCACTATAGGGCACCAGTCACTTGATTTCGTGA	1040 to1059	
GAPDH-F	CTCTCTGCTCCTGTTCGAC		
GAPDH-R	TGAGCGATGTGGCTCGGCT		

*Positions relative to the translational start codon

Opposum-IF CACGGAAGAACATGATGA Opposum-IR GTTTTTCCCGCCCCTTACCC Opposum-2F TGAATGACATGAAGGCCAAA Opposum-2R CAAGAACTGCTGCATGGTG Opposum-3R TGGATCATAAGGCTCCCAAC Opposum-4R AGCACATCCAGCAGTTACTTG Opposum-4F AGGAAGAAGAGTTAGGTATTGATGGTGTTTTAAGGTT Opposum-4F AGGAAGAAGAGTTAGGTAATGAGGAGAAGGCTATTAAACTCACATATTCCTCC Opposum-4R CAGTAATACGACTCACTATAGGGAGAAGGCTATTAAACTCACATATTCCCCC Opposum-5F AGGAAGAAGAGTTGTTTTATGGTTAATTAAGGGAGAAGGCTTCCTACTTAACTCCAAAACCTCCT Opposum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTAACTCCAAAACCCACT Opposum-7R CAGAAGAGAGGTTTTTGGTTATTAGGGAGAAGGCTTCCCACTTAAACTAAAAACCAAAA Mouse-1F TGACGCAGCGCTGACTGGTGTT Opposum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACCAAAA Mouse-1F TGACGCAGGAGAGGTTCTCGGCACA Mouse-2F GACACAGGAGAGGTTCTCGGCACA Mouse-2F GAGCCAGGAAGGTGCAAC Mouse-3R ACGCCAGGTACCCACTACCACTA Mouse-3R ACGCCAGGTACCCACTACACTACCACCACCACCACCACCACACC Mouse-3R ACGCCAGGTACCCACATAGGTGTAATCCCTAACACCACACACCACCACACACCACACACCAC	Primer Name	Nucleotide Sequence (5' to 3')
Oppossum-1R GTTTTTCCCGCCCCTTTACC Oppossum-2R CAAGAACTGCTGCATGGTGT Oppossum-3R TGGATCGATGAGGCCAAA Oppossum-3R TGGATCGATAGGCTCCCAAC Oppossum-3R TGGATCGATAGGGTGTACTTG Oppossum-4R CAGCAAGACGTAGGTAGTAGTGGTGTTTGAGGTT Oppossum-4R CAGTAATACGACTCACTATAGGGAGAAGGGCTATTAAACTTCATCATATTTCCCCCC Oppossum-4R CAGTAATACGACTCACTATAGGGAGAGGCTATTAAACTTCATCATATTCTCCCCCC Oppossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTTATCACATTAAACTCCAACACCCCCC Oppossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCCACATTAACTCACCATACCCATCCCCC Oppossum-7F AGGAAGAAGAGGGTTATCGGTTT AGGAAGAAGAAGGACGACTACCTAACGGAGAGGCTCCCTACTTAACCTCACATAACAAAAACCAAA Mouse-1F TGACGCAGCGTGTACTGGTTT Mouse-1F TGAGCGAGCGGTGACGTGAACT Mouse-2R GACACGAGAGGTGAAGCTGAAC Mouse-3R CAGCCAGGAGAGGTGAAG Mouse-3R CAGCCAGGAGAGGAGAGGCTGAAC Mouse-3R AGGCAGCGAGAAGCTCACT Mouse-3R CAGGCAGGAGAGGTGAAGCTAACCAA Mouse-3R CAGGCAGGAGAGGTGAACCAAC Mouse-3R AGGAAGAGAGAGAGCTACTCAA Mouse-4F AAGAAGCCTACCTAATAC	Opossum-1F	CACGGAGGAGAACATGATGA
Oppossum-2F TGAATGACATGAAGGCCAAA Oppossum-3F ACACCATGCAGCATGGTG Oppossum-3F ACACCATGCAGCAGGTGT Oppossum-3F TGATCTGATGGTGATCTTG Oppossum-4F TGATCTGATGGTGATCTTG Oppossum-4F AGGAAGAGGTTAGGTAATGATGGGGGTTTGAGGTA Oppossum-4F AGGAAGAGGTTGCACTATAGGGAGAGGCTATTAAACTTCATCATATTCTCCTCC Oppossum-4F AGGAAGAGGGTTATGGTTTTATGGGAGAAGGCTATCACATTAAACTCCAAACCTCCT Oppossum-4F AGGAAGAGGGTTATGGTTTATGGGAGAAGGCTTCACTACTAACTTCCCATCCCACC Oppossum-4F AGGAAGAGGGGTTATGGTTTATATGAGGAGAAGGCTTCACTACTACCATCCCACC Oppossum-4F AGGAAGAGAGGGTTTTGCTAATGGGAGAAGGCTTCACCACTACACATCACCATCCCCC Oppossum-4F CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCACATCACCATAAACATAAAAACAAAA Mouse-4F TGAGCGCACGACTACACTATAGGGAGAAGGCTTCACCCTACATAAACATAAAAACAAAA Mouse-2F GAACGCCAGGAAGAGTGAA Mouse-3F GAACGCCCAGGAAAGAGGTAAC Mouse-3F GAACGCCCAGGAAACAACAC Mouse-4F AAAAGCCTTCCACTATAGGGAAGAGGCTAATTCACCTAAATTTCCCCAAACCCCAAACTTCACATATAGGAAGAGGAGTTTTAGGTTTTGGTGG Mouse-4F AAAGCCCTCGCCTGAATCCA Mouse-4F AAAGCCCTCGCCTGAATCCA Mouse-4F AAAGCCCTCGCCTGAATCCAAAC	Opossum-1R	GTTTTTCCCGCTCCTTTACC
Opposum-2R CAAGAACTGCTGCATGGTGT Oppossum-3R TGGATCATAAGGCTCCCAAC Oppossum-3R TGGATCATAAGGCTCCCAAC Oppossum-4R CAGTAATACGACTCACTATAGGGAGTAGGTT Oppossum-4R CAGTAATACGACTCACTATAGGGAGAAGGCTATTAAACTTCATCATATTCTCCTCC Oppossum-5F AGGAAGAAGGTGGTTTTATTAGGGAGAAGGCTATTAAACTTCATCATATTCTCCTCC Oppossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACATATAACTCCAAAACCTCCT Oppossum-6F AGGAAGAGAGGTTCACATATAGGGAGAAGGCTTCCTACATTAAACTTCACATACCACATAGGGAGAAGGCTTCCACCTATAACTCACATATAGGAGGAGAGGCTTCCACCTATAACTCACCATATAGGAGAAGGCTTCACCCTAAATAACAATAAAAACCAAA Mouse-1F TGACGCAGCTGTACTGGTTT Mouse-1F TGACGCAGCTGTACTGGTTA Mouse-1F TGACGCAGCTGTACTGGTTAC Mouse-1F TGACGCCAGCTGACAGGGTGAA Mouse-2R GACACAGAAGGTGTACAG Mouse-3R ACGCCCAGGTACAGAACCAAC Mouse-3R ACGCCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCATTCACTATAGGGAGAAGGCTAATTCCCAAACTTAACCAAAATTTTATTTA	Opossum-2F	TGAATGACATGAAGGCCAAA
Oppossum-3F ACACCATECAGACAGTTCTTE Oppossum-RT-S TGATCTATAAGGCTCCCAAC Oppossum-4F AGGAAGAGAGTTAGGTAATGATGGTGGTTTGAGGTA Oppossum-4F AGGAAGAGAGTTAGGTAATGATGGTGGTTTGAGGTA Oppossum-4R CAGTAATACGACTCACTATAGGAGAAGGCTATTAAACTTCATCATATTCCCCCC Oppossum-5F AGGAAGAGAGGTTGGTTTTATGTTATTAGGGAGAAGGCTACTACAAACCTCCCT Oppossum-6R CAGTAATACGACTCACTATAGGGAGAAGGCTTCATCATATAACTCACATCCCATCCCACC Oppossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACTACTACTCACCTCCCTC	Opossum-2R	CAAGAACTGCTGCATGGTGT
Oppossum-3R TGATCATAAGGCTCCCAAC Oppossum-4F AGGAAGAGAGTTAGGTAACTG Oppossum-4F CAGTAATACGACTCACTATAGGGAGAAGGCTATTAAACTTCATCATCATATTCTCCTCC Oppossum-5F AGGAAGAGAGTTGGTTTATTAGGGAGAAGGCTATCAACATTCATCATCATCATCCCCC Oppossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTATCACATTTAAACTCACAAACCTCCT Oppossum-6R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTAAACTTCACCATAACCCCACC Oppossum-7F AGGAAGAGAGGTTTTTGTATAGGAGAAGGCTTCCACCTAAAAAACCAAA Oppossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAAAAACCAAA Mouse-1F TGACGCAGCTCACTACTGATGGGAGAGGCTTCACCCCAAATAACATAAAAACCAAAA Mouse-1R CTGGCCCTCACTACTGCGTTA Mouse-1R CAGGCCATCCCCAGTACTGACAC Mouse-2R GAACCCATCCCCAGTAGCTGAA Mouse-3R ACGCCCAGGACAGGTAAG Mouse-3R ACGCCCAGGACAGAGCTAAC Mouse-4R CTTGGCCTTCATTCCA Mouse-4R CTTGGCCTCACTATAGGGACAAGGCTAATTCCCTAACCTAACTTACCCTAAATTCCCTAACTTACCGCCAAAACCATC Mouse-4R CAGTAATACGACTCACTATAGGGACAAGGCTAATTCCCTAACCTAAATTCCCCTAACAACCATCCCTAACAAC	Opossum-3F	ACACCATGCAGCAGTTCTTG
Opposyum-RT-S TGATCIGATGGTGTAACGTAATGATGGTGTTTGAGGTT Opposyum-4R CAGTAATACGACTCACTATAGGGAGAAGGCTATTCAACTTCATCATATTCTCCTCC Opposyum-5F AGGAAGAGGTTGGTTTTTTTGTTATTTAGGGTGA Opposyum-5F AGGAAGAGGGGTTATGGTTTTATATGGGAGAAGGCTATCACATTAATCCAAAACCTCCT Opposyum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCACCATTAACTCCAAAACCTCCT Opposyum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCACCTTAACTCACAAAACCTCCCC Opposyum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAATAACATAAAAAAACCAAA Mouse-1R CTTGGCCTTCATGTCATTGGGAGAAGGCTTCACCCTAATAACATAAAAAACCAAA Mouse-1R CTTGGCCTTCATGTCATTCA Mouse-2F GACCAAGGAAGGTGAAG Mouse-3F GAAGCCCGGAGAAGGTGAAG Mouse-3R ACGCCAGGTACACGAACCAAC Mouse-3R ACGCCTTCCATGTCATTAGGAAACCAAC Mouse-4R CTTGGCCTTCATGTCATTAGGAAAGCCTAACT Mouse-4R CTTGGCCTTCATGTCATTAGGAAAGCCTAATTCCCTAACCTAAATTCCCTAACTTAATCCCT Mouse-5F AGGAAGAGAGGAGTTATGGTTTTGGTTGTTATTAGTG Mouse-5F AGGAAGAGAGCTCATATAGGGAGAAGCCTAATCCCTAAATTCAAAATTCTCCCT Mouse-5F AGGAAGAGAGCTCATATAGGGAGAAGCCTAATCCCTAAATTCAAAAAAAA	Opossum-3R	TGGATCATAAGGCTCCCAAC
Opposum-4F AGGAAGAGAGTTAGGTAATGATGATGGTTTIGAGGTT Oppossum-5F AGGAAGAGAGTTGGTTTAGGTATTAGGGAGAGAGGCTATTAAAACTCATATTCCCCCC Oppossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTATCACATTTAAATCCAAAACCTCCT Oppossum-6R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCCACTTAAATCCAAAACCTCCT Oppossum-7F AGGAAGAGAGGGTTATGGTTTAATATAAGGGGGT Oppossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCCTACTTAACTTCACATTACCCACACAA Mouse-1R CAGCAGAGAGGTTATGGTTGATGGGAGAAGGCTTCACCCTAAATAACATAAAAAACCAAA Mouse-2F GACCAGGAGAGGTGATCGGTTA Mouse-2F GACCAGGAGAGGTGACGGAAA Mouse-2F GACCAGGAGAGGTGAAG Mouse-3F GAGCCCCGAGGAAGCTGCACA Mouse-3F GAGCCCCCAGTACCTGACCA Mouse-3F GAGCCCCCCAGTACCTGAAC Mouse-3F GAAGCCCCCCAGTACCTACACA Mouse-4F AAAACCCTTGCCCTAACT Mouse-4F AAAACCCTGCCCAAAC Mouse-4F AGGAAGAGAGCTGTTAAGGTTGTGTTGTTGTGTGA Mouse-8F CAGCAAGAGAGCTGTTAAGGTTAGGGATAATCCCTAACCTAAATTCCCTAACCTAACTTCCCT Mouse-8F CAGGAAGAGAGCTGTTAAGTTTAGGGAGAAGCCTAATTCCCTAACCTAACTATCCC Mouse-8F CAGGAAGAGAGCTGTTATAGGGAGAAGGCTAAATCCCAACAAATCACCC Mouse	Opossum-RT-S	TGATCTGATGGTGTACTTG
Opossum-4R CAGTAATACGACTCACTATAGGGAGAGGCTATTAAACTTCATCATTCTCCTCC Opossum-5R CAGTAATACGACTCACTATAGGGAGAAGGCTATCACATTTAAATCCAAAACCTCCT Opossum-6F AGGAAGAGAGGTTATGGTTTATATGAGGAGAAGGCTATCACATTTAAATCCCAAAACCTCCT Opossum-6F AGGAAGAGAGGTTTTGGTTTAATAGGGAGAAGGCTATCACCATTAACTCCAAAACCTCCT Opossum-7F AGGAAGAGAGGGTTTTTGTTAATAGGAGAGGGCTTCACCTACTTAACTCCCATTCCTACC Opossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAATAACATAAAAACCAAA Mouse-1F TGAGCAGCTGACTGACTGACTGATGGGAGA Mouse-1R CTTGGCCTTCATGTCGATCGAA Mouse-2F GAACGCGCGAGAAGGTGAAG Mouse-3R ACGCCAGCCGAGAAGGTGAAG Mouse-3R ACGCCCAGCACCACCAC Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-4R CTTGGCCTTCATGTCATTAGGGAGAAGCTAACCCAAC Mouse-5F AGGAAGAGAGAGGTTTAAGGAAGGCTAACTCCAAACTAACCTAACTAA	Opossum-4F	AGGAAGAGAGTTAGGTAATGATGGTGTTTGAGGTT
Opossum-SF AGGAAGAGAGTTGGTTTTTTATGTTATTTAGGGTGA Opossum-SF CAGTAATACGACTCACTATAGGGAGAGGGCTACCACATATAAGCGGGT Opossum-FR CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTAAATCCAAAACCTCCC Opossum-FR CAGTAATACGACTCACTATAGGGAGAAGGCTTCCACCTAAATAACAACCAAAA Mouse-IF TGACCCAGCTGACTGGTTT TGACGCAGCTGACTGGTTT GAGAAGAAGAGGCTTACCGATAGGAAGGCTTCACCCTAAATAACATAAAAAACCAAA Mouse-IF TGACGCAGCGTGTACTGGGTT Mouse-IF GAAGCGCGGAGAGGTGAAG Mouse-2R GACCCCCCAGTGCTGACT Mouse-3R CACCCCAGGTAACGAACCAAC Mouse-3R ACCCCCCAGTGACTGAAG Mouse-3R ACCCCCCAGTACCAAACCAAC Mouse-3R ACCCCCCAGTGAACT Mouse-4F CTTGGCCTTCATGTCATTCA Mouse-4F CTTGGCCTCACTATAGGGAAGGCTAATTCCCAACATACAAAATTCCCT Mouse-5F AGGAAGAGAGGTTTTAGTGTGTTTGGTGA Mouse-5F AGGAAGAGAGGTTTAAGTTTAGGGAGAGGCTAAACCCACAAATTCAACAAAAAAAA	Opossum-4R	CAGTAATACGACTCACTATAGGGAGAAGGCTATTAAACTTCATCATATTCTCCTCC
Opossum-SR CAGTAATACGACTCACTATAGGGAGAAGGCTATCACATTTAAATCCAAAACCTCCT Opossum-FR CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCATTAACTTCCAATCCCAACACCCTCCC Opossum-FR CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCATTAACTTCCATTCCCATCCCACC Opossum-FR CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAAAAACCAAA Mouse-IF TGACGCACCTGTCCTGCTGCTT Mouse-IR CTTGGCCTTCATGTCATTCA Mouse-IR CTTGGCCACCGAGAAGGTGAAG Mouse-SF GAACGCGCGAGAAGGTGAAG Mouse-3F GAACGCCCCCAGTACCTGAA Mouse-3F GAACGCCCAGGTCAAGGACCAAC Mouse-3F GAACGCCCCCAGTACCTGAA Mouse-3F GAACGCCCCCCAGTACCTGAACT Mouse-3F GAACGCCCCCCAGTACCCACAC Mouse-3F CAGTAATACGACCAACCAAC Mouse-3F AGGAAGAGGGTTTAAGGTTACAGAG Mouse-3F AGGAAGAGGGTTAATCCCTACACAC Mouse-4F AAAGGCCTTCCCCTATAGGGAGAGGCTAATTCCCTAACCTAACTCACCT Mouse-5F AGGAAGAGGGTTAATGTTTTGTTGTTGTTTGTGA Mouse-8R CAGTAATACGACTCACTATAGGGAGAGGCTAATCCCAAAATCAAAAACCATACCC Mouse-7F AGGAAGAGGTTTATGGTGTTTTTTGTTGTTGAA Mouse-7F AGGAAGAGGAGTTAGTTGGTGTTTTTGTTGGA	Opossum-5F	AGGAAGAGAGTTGGTTTTTATGTTATTTAGGGTGA
Opossum-6F AGGAAGAGGGTTATGGTTTAATATAAGGGGGT Opossum-6R CAGTAATACGACTCACTATAGGGAGAGGCTTCCTACTTAACTTCCCATTCCTACC Opossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTAACTTCCCATTCCTACC Opossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAAAAACCAAA Mouse-1F TGACGCAGCTGTACTGGTTT Mouse-2F GACAAGAAGTTCCCGGCACA Mouse-2F GAACCCAGCTGCAGTGCAGA Mouse-3R ACGCCAGGACGTGAAGCGAAG Mouse-3R ACGCCCGGGACAGCGTGAAC Mouse-4F AAAGCCTTGCCGTGAACT Mouse-4F AAAGCCTTGCCTGCATGTCATTCA Mouse-5F AGGAAGAGAAGGGTGATACGAAGGGTAATCCCTAACCTAACTAA	Opossum-5R	CAGTAATACGACTCACTATAGGGAGAAGGCTATCACATTTAAATCCAAAACCTCCT
Opossum-6R CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTACT	Opossum-6F	AGGAAGAGAGGGTTATGGTTTAATATAAGGGGGGT
Opossum-7F AGGAAGAGAGGGTTTTTTGTAAGAATTGTTGTATGG Opossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAACATAAAACCAAA Mouse-1R CTTGGCCTTCATGTCATTGA Mouse-2F GACAAGAAGTTCTCGGCACA Mouse-3F GAAGCCATCCCAGTAGCTGAAC Mouse-3F GAAGCCATCCCAGTAGCTGAAC Mouse-3R ACGCCAGGTACAGAAACCAAC Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-4R CTTGGCCTTCATGCATTCA Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-5F AGGAAAGAGAGAGTTTTTGGGTGTTATTTAGTGTGG Mouse-6F AGGAAGAGAGAGGTGTTACAGAAGGCTAACCCCACAAATTCCCTAAATTCCCT Mouse-6F AGGAAGAGAGGTTTTTAGGGAAGGGCTAACCCCACAAATTCAAAAAAAA	Opossum-6R	CAGTAATACGACTCACTATAGGGAGAAGGCTTCCTACTTAACTTCCCATTCCTACC
Opossum-7R CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAAAAACCAAA Mouse-1F TGACGCAGCTGTACTGGTTT Mouse-1F TGACGCAGCTGTACTGGTTT Mouse-2R GACACAGAGTTCTCGGCACA Mouse-3F GAACGCAGGTACAGACGAAG Mouse-3R ACGCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-5F AGGAAGAGAGAGAGGTTTAATTTCA Mouse-5F AGGAAGAGAGGGTTTAAATTTTCGAT Mouse-5F AGGAAGAGGGGTGTAAAATTTGGGGTTTGTGTATTTCCCTAACCTAAATTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAAAGGCTTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGGTTTAAATTGGAGTTTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTAAAACAACCCACAAATTCAAAAAAAA	Opossum-7F	AGGAAGAGAGGGTTTTTTGTAAGAATTGTTGTATGG
Mouse-IF TGACGCAGCTGTACTGGTTT Mouse-2F GACAGCAAGTTCTCGGCACA Mouse-2F GAACCCAGTCCCAGTAGCTGAAG Mouse-3F GAACCCAGGTACCCAGTAGCTGAAG Mouse-3F GAACCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCAGTATTCA Mouse-5F AGGAAGAGAGAGGTGTTATTCA Mouse-5F AGGAAGAGAGAGGTGTTAATGTGTGTTGTTATTTAGTGG Mouse-5F AGGAAGAGAGAGGTGTTAAGGGAGAGGGCTAATTCCCTAACCTAAATTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAGGGTTAAGCCAACACAAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTAGTTGTGTGTGTTTTTGGTGTCCCAACACACCCACAAATTCAAAAAAACA Mouse-8F CAGTAATACGACTCACTATAGGGAGAGGCTAACCCACACAACACAAAAAAAA	Opossum-7R	CAGTAATACGACTCACTATAGGGAGAAGGCTTCACCCTAAATAACATAAAAACCAAA
Mouse-1R CTTGGCCTTCATGTCATTCA Mouse-2F GACAAGAAGTTCTCGGCACA Mouse-2R GAGCATCCCAGTAGCTGAA Mouse-3F GAAGCGCGAGAAGGTGAAG Mouse-3R ACGCCAGGTACAGAACCAAC Mouse-3R ACGCCAGGTACAGAACCAAC Mouse-4F AAAAGCTTGCGCTGAACT Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-5F AGGAAGAGAGAGAGGTTTTGTGTTGTTATTTAGTGG Mouse-5F AGGAAGAGAGAGGTGTTAAGGTAGGTATTCCCTAACCTAAATTCCCCTA Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGGTAATTCCCTAACCTAAAATTCTCCCT Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-6F AGGAAGAGAGCTTACTGTGTGTGTTGTTTGTTTGGAT Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTTGTTTGTTTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTAAAACACACAC	Mouse-1F	TGACGCAGCTGTACTGGTTT
Mouse-2F GACAAGAAGTTCTCGGCACA Mouse-2R GAGCCATCCCAGTAGCTGAA Mouse-3F GAACGGCGAAGAGTGAAG Mouse-3F GAACGCCCAGTACCAAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-5F GTATTTATTAATTTCGAT Mouse-5F AGGAAGAGAGAGGTGTTAAGGGTGTGTATTCCCTAACCTAAATTCTCCCT Mouse-5R CAGTAATACGACTCACTATAGGGAGAGGCTAATTCCCTAACCTAAAATTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTTTTGGAGTTGGAGTTGGAGT Mouse-7R AGGAAGAGAGTTAATGTGTGTGTTTTTTGGATT Mouse-8R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAAAA	Mouse-1R	CTTGGCCTTCATGTCATTCA
Mouse-2R GAGCCATCCCAGTAGCTGAA Mouse-3F GAAGCGCGAGAAGGTGAAG Mouse-3F GAAGCGCCAGGAAGGTGAAG Mouse-3F ACGCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-5F AGGAAGAGAGAGATTTTGTGTTGTTATTTAGTGG Mouse-5F AGGAAGAGGAGCTTTTAAGTTTAGGGAAGGCTAATTCCCTAACCTAAAATTCTCCCT Mouse-6F AGGAAGAGGGTGTTAAAGTTTAGGGATTGGTGGA Mouse-6F AGGAAGAGGAGTGTTAAAGTTTGGGAAGGCTAACCCAACAAATTCAAAAATCTATCC Mouse-6R CAGTAATACGACTCACTATAGGGAGAGGCTTAACCCAACAAAATTCAAAAAATCTATCC Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTGTGTTGTTTGGATT Mouse-8R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAACAAAACCAAAACCCCAAAAAA Mouse-9F AGGAAGAGAGTAAATGTTATGGGAAATGCTTAGCAAAAAAAA	Mouse-2F	GACAAGAAGTTCTCGGCACA
Mouse-3F GAAGCGCGAGAAGGTGAAG Mouse-3R ACGCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-5F AGGAAGAGAGAGAGAGTTTTGGTTGTTATTTAGTGG Mouse-6F AGGAAGAGAGAGAGGTTTAAGGGAGAAGGCTAATTCCCTAACCTAAATTTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCAACATAATTCCAAAATTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCAACAATTCAAAAATCTATCC Mouse-7F AGGAAGAGGTTTTTTTGGAATTGGAGTTAGAGATG Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTAAAACATTACCCCAAAAAAAA	Mouse-2R	GAGCCATCCCAGTAGCTGAA
Mouse-3R ACCCCAGGTACAGAACCAAC Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-RT-S GTATITATATTTTTGGAT Mouse-5F AGGAAGAGAGAGAGGTGTTAAGGGAGAGGCTAATTCCCTAACCTAAATTTCTCCCT Mouse-5R CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCTAACCTAAAATTTCTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCCAAAAATCTATCC Mouse-7F AGGAAGAGAGGTTTTGGTGGTGTTTGGTGA Mouse-7R AGGAAGAGAGTAGTTGGTGTGTGTGTGTGTGTGGATT Mouse-8R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAACAACCCCTACAATAAAAAAA Mouse-8R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAACATTACCCCAAAAAACAAAAT Mouse-9F AGGAAGAGAGTGAAATGGAAATGGAAAGCCTAACACCCTACCAACAACCCTACCAAAAAAAA	Mouse-3F	GAAGCGCGAGAAGGTGAAG
Mouse-4F AAAAGCCTTGCGCTGAACT Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-RT-S GTATTTATTATTTTCGAT Mouse-SF AGGAAGAGAGAGAGTTTTGGTGTTGTTATTTAGTGG Mouse-SF CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCTAACCTAACATATTCTCCCT Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGATTGGGGA Mouse-7F AGGAAGAGAGCTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAATTCTCC Mouse-7R AGGAAGAGAGTTTGTGTGTTTTGGAGTT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTACAACACCCCAACAACCCTACAATAAAAAAA Mouse-7R AGGAAGAGAGTTAGTTGTGTGTTTTTGGAGTT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAACATTACCAACCCTACAATAAAAAAA Mouse-8R CAGTAATACGACTCACTATAGGGAGAAAGGCTAAAAAACAAAACAAAAACCAAAAT Mouse-9F AGGAAGAGAGTTGAGAAATGTTATGGGAAATTGGAAAAGA Mouse-9R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAACAAAACCAAAACCTCCTCCACC Mouse-10F AGGAAGAGAGTGTGAGAAATTTTGGGATTGGTTA Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCAAAAAACAAAACCTACCAAAA Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTTAATCCCAAAAAACCTACCCAAATCCCAAAC Mouse-12F AGGAAGAGAGGGGGAAATAGGGATAGGGATAAGGGTTAAA Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTTAAACCAAAAAACCAAAAACCAAAAACAAAACCAAAAACAAACCAAAA	Mouse-3R	ACGCCAGGTACAGAACCAAC
Mouse-4R CTTGGCCTTCATGTCATTCA Mouse-RT-S GTATTTATTAATTTTCGAT Mouse-5F AGGAAGAGGAAGGTTTTGTGTTGTTATTTAGTGG Mouse-5R CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCTAACCTAACCTAAATTTCTCCCT Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGTTTGGGA Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTTTTGGGTGTGTTTGTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAGGCTAACACACACA	Mouse-4F	AAAAGCCTTGCGCTGAACT
Mouse-RT-S GTATITATTAATITICGAT Mouse-SF AGGAAGAGAGAGAGAGGTITIGTGTTGTTATTTAGTGG Mouse-SR CAGTAATACGACTCACTATAGGGAGAGGCTAATTCCCTAACTTACCCTA Mouse-SR CAGTAATACGACTCACTATAGGGAGAGGCTAATTCCCTAACTTCCCT Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTAGTTGTGGTGTTTTGTTGGAGT Mouse-7R AGGAAGAGAGTTACTCACTATAGGGAGAGGCTTAACACACCCTACAATAAAAAAAA	Mouse-4R	CTTGGCCTTCATGTCATTCA
Mouse-5F AGGAAGAGAGAGAGGTTTTGTGTTATTTAGTGG Mouse-5R CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCTAACCTAAATTTCTCCCT Mouse-6F AGGAAGAGAGAGGTGTTAAAGTTTAGGGATTTGGGTGA Mouse-6R CAGTAATACGACTCACTATAGGGAGAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7R AGGAAGAGAGATTTTTGGAATTGGAGGTAGAGAGTG Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTACAACACACCCTACAATAAAAAAAA	Mouse-RT-S	GTATTTATTAATTTTCGAT
Mouse-SR CAGTAATACGACTCACTATAGGGAGAAGGCTAATTCCCTAACCTAAATTTCTCCCT Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGATTGGTGA Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTTTTTGGAATTGGAGTTGGAGATG Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTGTGTTTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTACAACAACCCTACAATAAAAAAAA	Mouse-5F	AGGAAGAGAGAGGTTTTGTGTTGTTATTTAGTGG
Mouse-6F AGGAAGAGAGGTGTTAAAGTTTAGGGTTTTGGTGA Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTAGTTGTGTGTGTGTTTGGTTGGATT Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTGTTGTTTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTACAACACCCTACAATAAAAAAAA	Mouse-5R	CAGTAATACGACTCACTATAGGGAGAGGCTAATTCCCTAACCTAAATTTCTCCCT
Mouse-6R CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC Mouse-7F AGGAAGAGAGTTTTTTGGAATTGGAGTTAGAGATG Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTGTGTGTGTGTTTGTT	Mouse-6F	AGGAAGAGAGGTGTTAAAGTTTAGGGTTTTGGTGA
Mouse-7FAGGAAGAGAGTTTTTTGGAATTGGAGTTAGAGATGMouse-7RAGGAAGAGAGTAGTTGTGTGTGTGTGTGTTGGTTGGATTMouse-8FCAGTAATACGACTCACTATAGGGAGAAGGCTAAAAACCTCCCAAAAAAAA	Mouse-6R	CAGTAATACGACTCACTATAGGGAGAAGGCTAACCCACAAATTCAAAAATCTATCC
Mouse-7R AGGAAGAGAGTTAGTTGTGTGTGTGTGTTTGTTTGGATT Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTCCAACAACCCTACAATAAAAAAAA	Mouse-7F	AGGAAGAGAGTTTTTGGAATTGGAGTTAGAGATG
Mouse-8F CAGTAATACGACTCACTATAGGGAGAAGGCTTCCAACAACCCTACAATAAAAAAAA	Mouse-7R	AGGAAGAGAGTTAGTTGTGTGTGTGTTTGGATT
Mouse-8RCAGTAATACGACTCACTATAGGGAGAAGGCTAAAAACATTACCCCCAAAAACAAAATMouse-9FAGGAAGAGAGAGAAATGTTATGGGAAATGGAAAGAMouse-9RCAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAAAA	Mouse-8F	CAGTAATACGACTCACTATAGGGAGAAGGCTTCCAACAACCCTACAATAAAAAAAA
Mouse-9FAGGAAGAGAGTAAATGTTATGGGAAATTGGAAAGAMouse-9RCAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAAAA	Mouse-8R	CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAACATTACCCCCAAAAACAAAA
Mouse-9R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAAACAAAACTCCTTCCT	Mouse-9F	AGGAAGAGAGTAAATGTTATGGGAAATTGGAAAGA
Mouse-10F AGGAAGAGAGTTGAGAAATATTTTGGGTTTGGTTA Mouse-10R CAGTAATACGACTCACTATAGGGAGAAGGCTACTCTAACATTCCATATCATTCCAAAA Mouse-11F AGGAAGAGAGAGAGTTTTTGGAATGATATGGAATGTT Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-12F AGGAAGAGAGAGAGGGGAAGTTTTTAAGGAATGGTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAGGCTAATCCCAAAAACTCCCAATCCCTATTC Mouse-13F AGGAAGAGGAGAAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTAACCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGAGAGTTATTTTTAGGTAGGTGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAAC Mouse-15F AGGAAGAGAGATAGTTGGTGGGTTAGTAGACTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-9R	CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAAAA
Mouse-10R CAGTAATACGACTCACTATAGGGAGAAGGCTACTCTAACATTCCATATCATTCCAAAA Mouse-11F AGGAAGAGAGGAGTTTTTGGAATGATATGGAATGTT Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-12F AGGAAGAGAGAGAGGGGAAGTTTTTAAGGATGTTTTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAAGGCTTATTTTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAAGGCTTTTTAACCTACCCAATCCCTATTCC Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAAGGCTTACCCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGGAGATTATTTTAGGGAGAAGGCTACACAAAAAAAA	Mouse-10F	AGGAAGAGAGTTGAGAAATATTTTGGGTTTGGTTA
Mouse-11F AGGAAGAGAGAGAGATTTTTGGAATGATATGGAATGTT Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-12F AGGAAGAGAGAGAGGGGAAGTTTTTAAGGATGTTTTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAGGCTTATTTTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAGGCTTTTTAACCTACCCAATCCCTATTTC Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGAGGAGATTATTTTTAGGTATGGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAGGCTACACAAAAAAACCACAAAAAAC Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAAC Mouse-15F AGGAAGAGGAGTAGTTAGTTGGGGGTAGAAGGCTCAAAAAAAA	Mouse-10R	CAGTAATACGACTCACTATAGGGAGAGGCTACTCTAACATTCCATATCATTCCAAAA
Mouse-11R CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-12F AGGAAGAGAGAGAGGGGAAGTTTTAAGGAAGGCTAATCCCAAAAAACTTTCATCCTAAC Mouse-12R CAGTAATACGACTCACTATAGGGAGAGGCTTTTTAACCTACCCAATCCCTATTTC Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGGAGATTATTTTTAGGTATTGGGATGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAC Mouse-15F AGGAAGAGGAGTAGTTAGTTGGGGGTAGAAGGCTCAAAAAAAA	Mouse-11F	AGGAAGAGAGGATTTTTGGAATGATATGGAATGTT
Mouse-12F AGGAAGAGAGAGAGGGGAAGTTTTTAAGGATTTTTT Mouse-12R CAGTAATACGACTCACTATAGGGAGAAGGCTTTTTAACCTACCCAATCCCTATTTC Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTAACCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGAGAGTTATTTTTAGGTATGGGATGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAAC Mouse-15F AGGAAGAGGAGTTAGTTGGTGGGTTAGTAGACTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-11R	CAGTAATACGACTCACTATAGGGAGAAGGCTAATCCCAAAAAACTTTCATCCTAAC
Mouse-12R CAGTAATACGACTCACTATAGGGAGAAGGCTTTTTAACCTACCCAATCCCTATTTC Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13F AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAGGCTTTACCCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGGAGATTATTTTTAGGTATGGGATGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAAC Mouse-15F AGGAAGAGGAGTTAGTTTGGTGGGTTAGTAGACTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-12F	AGGAAGAGAGAGGGGAAGTTTTTAAGGATTTTTT
Mouse-13F AGGAAGAGAGAGAGAAATAGGGATTGGGTAGGTTAAA Mouse-13R CAGTAATACGACTCACTATAGGGAGGGCTTAAC Mouse-14F AGGAAGAGAGGGAGATTATTTTTAGGTAGGCTTAACCAAATTCTTCTTAACTCCAA Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTTACCCAAAATACCACAAAAAACCAAAAAAC Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCAAAAAAAC Mouse-15F AGGAAGAGAGATTAGTTTGGTGGGTTAGTAGATTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-12R	CAGTAATACGACTCACTATAGGGAGAAGGCTTTTTAACCTACCCAATCCCTATTTC
Mouse-13R CAGTAATACGACTCACTATAGGGAGAAGGCTTACCCAAATTCTTCTTAACTCCAA Mouse-13R CAGTAATACGACTCACTATAGGGAGAAGGCTTACCCAAATTCTTCTTAACTCCAA Mouse-14F AGGAAGAGGGAGAGTATTTTTAGTATGGGATGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-15F AGGAAGAGGAGTTAGTTGGTGGGTTAGTAGATTGG Mouse-15F CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAACAAAAAACCAAAA Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-13F	AGGAAGAGAGAGAAATAGGGATTGGGTAGGTTAAA
Mouse-14F AGGAAGAGAGGAGGAGATTATTTTAGTTATTGGGATGG Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-15F AGGAAGAGAGTTAGTTTGGTGGGTTAGTAGATTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAACAAAAATCCAAAA Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAAAA	Mouse-13R	
Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-14R CAGTAATACGACTCACTATAGGGAGAAGGCTACACAAAAAAACCACAAAAAAC Mouse-15F AGGAAGAGAGTTAGTTTGGTGGGTTAGTAGATTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAAACAAAAAACAAAAAATCCAAAA Mouse-16F AGGAAGAGAGATAATTTGGTGGATATTGGGAGGAGGCTCAAAAAACAAAAACAAAAAATCCAAAA Mouse-16R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAACAAAC	Mouse-14F	
Mouse-15F AGGAAGAGAGTTAGTTAGTGGGGTTAGTAGATTGG Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAACAAAACAAAAATCCAAAA Mouse-16F AGGAAGAGAGATAATTTGGTGATATTGGGTGTG Mouse-16R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAACAAAC	Mouse-14R	
Mouse-15R CAGTAATACGACTCACTATAGGGAGAAGGCTCAAAAACAAAACAAAAAATCCAAAA Mouse-16F AGGAAGAGAGATAATTTGGTGATATTGGGTGTTG Mouse-16R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAACAAAC	Mouse-15F	
Mouse-16F AGGAAGAGAGATAATTTTGGTGATATTGGGTGTTG Mouse-16R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAACAAAC	Mouse-15R	
Mouse-16R CAGTAATACGACTCACTATAGGGAGAAGGCTAAAAAAACAAAC	Mouse-16F	AGGAAGAGAGATAATTTTGGTGATATTGGGTGTTG
Mouse-17F AGGAAGAGAGTAGGAAAATTTTATGGGAGGATTGT Mouse-17R CAGTAATACGACTCACTATAGGGAGAAGGCTAATAAAAAAAA	Mouse-16R	
Mouse-17R CAGTAATACGACTCACTATAGGGAGAAGGCTAATAAAAAAAA	Mouse-17F	
	Mouse-17R	
Mouse-18E AGGAAGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Mouse-18F	
	Mouse-18R	

Table S2. Primers used in this study for opossum and mouse FAM50B.



Figure S1



Figure S2



Figure S3









