Table S2: Genes in RetroFat chromosome 1 QTL interval.

| Gene Symbol | Gene Name | Start location | Gene Function (UniProt) | Non-synonymous variants in founders with the haplotype effect† |
|--------------|--|-------------------|--|---|
| LOC103691392 | uncharacterized | 280573647 | Unknown | |
| Emx2 | empty spiracles homeobox 2 | 280633938 | Transcription factor which acts to generate the boundary between the roof and archipallium in the developing brain. | |
| LOC108349711 | uncharacterized | 280653842 | Unknown | |
| LOC502394 | hypothetical | 280753676 | Unknown | |
| LOC102555781 | uncharacterized | 280796426 | Unknown | |
| LOC108349712 | uncharacterized | 280934585 | Unknown | |
| Rab11fip2 | RAB11 family interacting protein 2 | 281065346 | A Rab11 effector binding preferentially phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and phosphatidic acid (PA) and acting in the regulation of the transport of vesicles from the endosomal recycling compartment (ERC) to the plasma membrane. Involved in insulin granule exocytosis. Also involved in receptormediated endocytosis and membrane trafficking of recycling endosomes, probably originating from clathrin-coated vesicles. | |
| LOC102556164 | uncharacterized | 281227923 | Unknown | |
| LOC102556108 | uncharacterized | 281289720 | Unknown | |
| LOC102556023 | acyl carrier protein, mitochondrial- like | 281304776 | Unknown | |
| Fam204a | family with sequence similarity 204, member A | 281343692 | Unknown | |

| Gene Symbol | Gene Name | Start location | Gene Function (UniProt) | Non-synonymous variants in founders with the haplotype effect† |
|--------------|---|-------------------|--|---|
| LOC103691393 | uncharacterized | 281395030 | Unknown | |
| LOC108349713 | uncharacterized | 281397476 | Unknown | |
| Prlhr | prolactin releasing hormone receptor | 281754472 | Receptor for prolactin- releasing peptide (PrRP). Implicated in lactation, regulation of food intake and pain-signal processing. | 281755911 C to T translation start site in BUF and WKY |
| Cacul1 | CDK2- associated, cullin domain 1 | 281814226 | Cell cycle associated protein capable of promoting cell proliferation through the activation of CDK2 at the G1/S phase transition. | |

The gene in bold (Prlhr) is the most likely candidate in the region.

[†]RetroFat chromosome 1 haplotype effects: BUF, MR, WKY haplotypes lead to increased fat pad weight (Figure 6D).