



Figure 3: Candidate genes and syntenic regions of human chromosomes in the eight bins with highest significance.

Black horizontal bars represent genomic regions of mouse chromosomes where the bin number and boundaries (in Mbp, M) as well as LOD score values (>4.3) for body weight (bw) and body fat (fat weight and fat percentage; fw, f%) from the meta-analysis are indicated. Arrows denote corresponding syntenic regions on human chromosomes with physical positions in Mbp. Indicated are QTL for body weight (blue), fat weight (red), body fat percentage (green) and both body weight and body fat (cyan), respectively, which map into the bins. Ticks indicate the position of peak markers. Diamonds represent physical positions of candidate genes and genetic loci which have been implicated in regulation of body weight and body composition in rodents and/or humans. *APOA2*, apolipoprotein A-II; *ASIP*, agouti signaling protein; *ATP1A2*, Na⁺,K⁺-ATPase alpha2 subunit; *BBS5*, Bardet-Biedl syndrome 5; *BF*, complement factor B; *C/EBPA*, CCAAT/enhancer binding protein alpha; *CLPS*, pancreatic colipase; *DGAT1*, diacylglycerol O-acyltransferase 1; *GPD2*, glycerol-3-phosphate dehydrogenase 2; *DPP4*, dipeptidylpeptidase 4; *GLO1*, glyoxalase I; *GHRH*, growth hormone releasing hormone; *GPR24*, G protein-coupled receptor 24 (Melanin concentrating hormone receptor 1); *GYS1*, glycogen synthase 1; *HSD11B1*, hydroxysteroid 11-beta dehydrogenase 1; *HSPA1*, heat shock 70kDa protein 1A; *IGF1R*, insulin-like growth factor 1 receptor; *IL1A*, interleukin 1 alpha; *LHB*, luteinizing hormone beta polypeptide; *MKKS/BBS6*, McKusick-Kaufman syndrome protein; *PLIN*, perilipin; *PLSCR3*, phospholipid scramblase 3; *PPARD*, peroxisome proliferator activator receptor delta; *PROP1*, prophet of Pit1, paired-like homeodomain transcription factor; PWCR, Prader-Willi syndrome chromosome region; *SPARC*, secreted protein acidic and rich in cysteine/osteonectin/BM40; *SREBP-1*, sterol regulatory element binding transcription factor 1; *TNF*, tumor necrosis factor; *VSX1*, visual system homeobox 1 homolog (see paper for details and references).