Table S3: Genes in body weight chromosome 4 QTL interval.

	Gene Name	Start	Gene Function	Non-
		location	(UniProt)	synonymous
				variants in
				founders with
				the haplotype effect†
				effecty
Ccser1	coiled-coil serine-rich protein 1	91235885	Unknown, has	None
			been associated	
			with cocaine	
LOC103692146	uncharacterized	91601766	Unknown	None
LOC108350840	uncharacterized	91959690	Unknown	None
LOC108350839	high mobility group protein B1-like	92431517	Unknown	None
	developmental pluripotency-associated protein 2 pseudogene	92443293	Unknown	None
	axoneme-associated protein mst101(2)-like	92501663	Unknown	None
LOC103692147	glutamate receptor ionotropic, delta-2-like	93012791	Unknown	None
Hint1-ps1	histidine triad nucleotide binding protein 1,	93405665	Pseudogene,	None
•	pseudogene 1		likely not	
			functional	
LOC103692150	thyrotropin receptor pseudogene	93447412	Unknown	None
LOC108350813	Ig kappa chain V-II region 26-10-like	93857773	Unknown	None
~				
Grid2	glutamate ionotropic receptor delta type subunit 2	94068112	Receptor for	None
			glutamate. L-	
			glutamate acts	
			as an excitatory neurotransmitter	
			at many	
			synapses in the	
			central nervous	
			system.	

The gene in bold (Grid2) is the most likely candidate in the region.

†Body Weight chromosome 4 haplotype effects: ACI, BUF, F344 and MR haplotypes lead to decreased body weight while BN haplotype leads to increased body weight (Figure 7D).