

Table S4. *P*-value for interaction between *TFAP2B* and fat group, and beta (95% confidence interval) for fat group by *TFAP2B* variant*, in relation to weight loss, in analyses varying in fat group definition and adjustments, in DiOGenes.

Weight loss effect*	A. Original analyses of fat% change group, using the median cut-off (n=590)	B. Same as in case A but also including adjustment for change in energy intake (n=590)	C. Analyses of tertile 3 versus 1 of change in fat% intake (n=288)
<i>P</i> -value	0.4	0.4	0.2
Beta:			
AA	0.09 (-0.50; 0.68)	0.07 (-0.52; 0.66)	0.44 (-0.44; 1.31)
Beta:			
AG	-0.29 (-1.04; 0.46)	-0.31 (-1.07; 0.44)	-0.37 (-1.44; 0.70)

*Results are not reported for the rare GG variant because results were not applicable in this group, particularly after further sample size reduction in analysis C.

† *P*-value for interaction between *TFAP2B* and fat group; beta; estimates for comparison between the low versus high fat% decrease group.