

# **SUPPLEMENTAL MATERIAL**

The FREQ Procedure

Frequency

Interpretation	Table of Interpretation by Label							
	Label							
	Difference in Effects	Main Effect HFD	Main Effect MVs	Simple Effect of High Fat Diet with MVs	Simple Effect of High Fat Diet without MVs	Simple Effect of MVs in High Fat Diet	Simple Effect of MVs in Normal Diet	Total
Diet did not significantly regulate gene with MVs	0	0	0	54	0	0	0	54
Diet did not significantly regulate gene without MVs	0	0	0	0	24	0	0	24
Diet did not significantly regulate gene, regardless of MVs	0	7089	0	0	0	0	0	7089
Gene more downregulated or less upregulated by MVs in High Fat diet than Normal (see Simple effects)	28	0	0	0	0	0	0	28
Gene more upregulated or less downregulated by MVs in High Fat diet than Normal (see Simple effects)	38	0	0	0	0	0	0	38
High Fat Diet downregulated gene relative to Normal Diet similarly, regardless of MVs	0	84	0	0	0	0	0	84
High Fat Diet downregulated gene relative to Normal Diet with MVs	0	0	0	3	0	0	0	3
High Fat Diet downregulated gene relative to Normal Diet without MVs	0	0	0	0	21	0	0	21
High Fat Diet upregulated gene relative to Normal Diet similarly, regardless of MVs	0	282	0	0	0	0	0	282
High Fat Diet upregulated gene relative to Normal Diet with MVs	0	0	0	9	0	0	0	9
High Fat Diet upregulated gene relative to Normal Diet without MVs	0	0	0	0	21	0	0	21
MVs did not significantly regulate gene with High Fat Diet	0	0	0	0	0	37	0	37
MVs did not significantly regulate gene with Normal Diet	0	0	0	0	0	0	47	47
MVs did not significantly regulate gene, regardless of Diet	0	0	7412	0	0	0	0	7412
MVs downregulated gene relative to vehicle alone similarly, regardless of Diet	0	0	21	0	0	0	0	21
MVs downregulated gene relative to vehicle alone with High Fat Diet	0	0	0	0	0	12	0	12
MVs downregulated gene relative to vehicle alone with Normal Diet	0	0	0	0	0	0	10	10
MVs upregulated gene relative to vehicle alone similarly, regardless of Diet	0	0	22	0	0	0	0	22
MVs upregulated gene relative to vehicle alone with High Fat Diet	0	0	0	0	0	17	0	17
MVs upregulated gene relative to vehicle alone with Normal Diet	0	0	0	0	0	0	9	9
The effect of MVs did not depend on diet or vice versa (look to Main Effects)	7455	0	0	0	0	0	0	7455
<b>Total</b>	<b>7521</b>	<b>7455</b>	<b>7455</b>	<b>66</b>	<b>66</b>	<b>66</b>	<b>66</b>	<b>22695</b>