

Supplementary Table S1. Average production traits for individual *LPIN1* genotypes in the 242 New Zealand Romney lambs

Trait	<i>A<sub>3</sub>A<sub>3</sub></i>	<i>A<sub>3</sub>B<sub>3</sub></i>	<i>A<sub>3</sub>C<sub>3</sub></i>	<i>A<sub>3</sub>D<sub>3</sub></i>	<i>A<sub>3</sub>E<sub>3</sub></i>	<i>B<sub>3</sub>B<sub>3</sub></i>	<i>B<sub>3</sub>C<sub>3</sub></i>	<i>B<sub>3</sub>D<sub>3</sub></i>	<i>B<sub>3</sub>E<sub>3</sub></i>	<i>C<sub>3</sub>C<sub>3</sub></i>	<i>C<sub>3</sub>D<sub>3</sub></i>	<i>C<sub>3</sub>E<sub>3</sub></i>	<i>D<sub>3</sub>D<sub>3</sub></i>	<i>D<sub>3</sub>E<sub>3</sub></i>	<i>E<sub>3</sub>E<sub>3</sub></i>
	n=17	n=19	n=34	n=11	n=15	n=15	n=16	n=14	n=20	n=20	n=14	n=17	n=7	n=9	n=14
Birth weight (kg)	6.1	6.4	6.4	6.4	5.7	6.4	6.2	6.4	6.0	5.8	6.0	5.5	6.5	6.0	6.1
Pre-weaning growth rate (g/day)	334.0	346.3	340.5	334.7	322.2	345.7	353.0	343.0	350.2	321.7	322.0	343.3	335.9	361.3	350.8
Draft age (days)	108.0	100.2	106.3	107.9	118.8	99.6	101.4	101.2	110.0	107.0	109.5	107.6	100.6	93.6	107.1
Hot carcass weight (HCW: kg)	17.7	17.4	17.7	17.9	17.5	17.1	18.1	17.1	18.5	16.3	17.1	17.6	16.8	18.3	18.4
V-GR (mm)	7.2	7.9	6.3	7.0	6.8	6.8	7.8	6.7	8.0	5.8	6.9	7.5	6.2	9.1	8.7
Leg yield (% of HCW)	22.5	22.0	22.8	22.6	22.1	22.0	22.4	22.7	22.2	22.3	22.7	22.4	22.7	22.1	22.1
Loin yield (% of HCW)	15.0	15.1	15.4	15.4	15.3	14.8	15.3	15.2	15.5	14.8	15.5	15.1	15.2	15.0	15.3
Shoulder yield (% of HCW)	17.4	17.1	18.0	17.8	17.3	17.4	17.9	17.3	17.5	17.4	17.9	17.7	17.7	17.5	17.7
Total lean meat yield (% of HCW)	54.9	54.2	56.1	55.9	54.7	54.2	55.6	55.2	55.2	54.6	56.1	55.2	55.6	54.6	55.1
Proportion leg yield (%)	41.0	40.6	40.5	40.4	40.5	40.6	40.3	41.1	40.2	40.9	40.5	40.5	40.7	40.4	40.1
Proportion loin yield (%)	27.4	27.9	27.5	27.6	27.9	27.2	27.6	27.6	28.0	27.1	27.6	27.4	27.4	27.5	27.9
Proportion shoulder yield (%)	31.6	31.5	32.0	31.9	31.6	32.2	32.1	31.3	31.7	31.9	31.9	32.1	31.9	32.1	32.1