

MiniMUGA Background Analysis v0002

Sample ID	INS2.Apple 28091					
Neogen ID	AAAA-0378					
Summary	<p>The genotype of this sample is of excellent to good quality. It is male, close to inbred, and likely a mix of C57BL/6J and ALS/LtJ.</p> <p>It is heterozygous at 89 tier 1 autosomal markers. By comparison, an average F1 mouse is heterozygous at 2580 tier 1 autosomal markers. (range: 202 - 3571)</p>					
Chromosomal Sex	XY (probability: 99.95%)					
Genotyping Quality	<p>Excellent to Good</p> <p>All estimates are dependent on genotyping quality.</p>					
Inbreeding Estimate	<p>Legend: ● Neogen ID AAAA-0378 ■ Close to Inbred ■ Control Inbred Samples</p>					
Backgrounds Detected (Diagnostic Alleles)	Strain	Diagnostics Alleles Observed			(Homozygous + Heterozygous) / Total Diagnostic SNPs	
	C57BL/6J	98.44%			(124 + 2) / 128	
Primary Background (Autosomes, X Chromosome)	Strain	Total	Consistent	Inconsistent	Heterozygous	Excluded
	C57BL/6J	9121	9004 (99.1%)	3 (0.0%)	77 (0.8%)	37
Secondary Background (Autosomes, X Chromosome)	Strain	Total	Explained	Explained Clustered	Unexplained	Unexplained Clustered
	ALS/LtJ	80	69 (86.2%)	True	10 (13.8%)	False
Background Ideogram	<p>Legend: ■ C57BL/6J ■ ALS/LtJ ■ Heterozygous</p>					

MiniMUGA Background Analysis v0002

Sample ID	INS2.Apple 28092					
Neogen ID	AAAA-0379					
Summary	<p>The genotype of this sample is of excellent to good quality. It is male, inbred, and likely a mix of C57BL/6J and ALS/LtJ.</p> <p>It is heterozygous at 59 tier 1 autosomal markers. By comparison, an average F1 mouse is heterozygous at 2580 tier 1 autosomal markers. (range: 202 - 3571)</p>					
Chromosomal Sex	XY (probability: 99.98%)					
Genotyping Quality	<p>Excellent to Good</p> <p>All estimates are dependent on genotyping quality.</p>					
Inbreeding Estimate	<p>The plot shows 'Better Quality N Calls' on the y-axis and 'More Inbred' (left) vs 'H Calls' (right) on the x-axis. A red dot represents Neogen ID AAAA-0379, which is positioned far to the left, indicating high inbreeding. A grey bar represents 'Close to Inbred' and a dark grey bar represents 'Control Inbred Samples', both positioned further to the right.</p>					
Backgrounds Detected (Diagnostic Alleles)	Strain	Diagnostics Alleles Observed			(Homozygous + Heterozygous) / Total Diagnostic SNPs	
	C57BL/6J	98.44%			(125 + 1) / 128	
Primary Background (Autosomes, X Chromosome)	Strain	Total	Consistent	Inconsistent	Heterozygous	Excluded
	C57BL/6J	9121	9036 (99.5%)	3 (0.0%)	46 (0.5%)	36
Secondary Background (Autosomes, X Chromosome)	Strain	Total	Explained	Explained Clustered	Unexplained	Unexplained Clustered
	ALS/LtJ	49	43 (87.8%)	True	5 (12.2%)	False
Background Ideogram	<p>The ideogram shows chromosomes 1 through 19 and X. Black bars represent C57BL/6J background, red bars represent ALS/LtJ background, and black bars with red segments represent Heterozygous regions. Chromosomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19 are predominantly black. Chromosomes 1, 4, 7, and 8 show small red segments. Chromosome X is predominantly black.</p>					