

MiniMUGA Background Analysis v0008

Sample ID	CS_C57BL/6_MacImm_F																																						
Neogen ID	AL3794																																						
Summary	The genotype of this sample is of excellent quality. It is female and inbred , and likely a C57BL/6J mouse.																																						
	Diagnostic SNPs indicate the presence of the background strain groups C57BL/6 and the substrains C57BL/6J .																																						
	No genetic constructs were detected in this sample.																																						
Genotyping Quality	Excellent (4 N calls) All reported results are dependent on genotyping quality.																																						
Chromosomal Sex	XX																																						
Inbreeding Estimate	Inbred (5 H calls at autosomal, X, and PAR chromosome markers)																																						
Inbreeding and Genotyping Quality (Plot)	<p>The plot shows the relationship between Inbreeding (H Calls) on the x-axis and Quality (N Calls) on the y-axis. The y-axis has four levels: Excellent (91), Good (234), Questionable (446), and Poor (446). The x-axis has three regions: Inbred, Close to Inbred, and Outbred. A curve starts at the bottom left and rises towards the top right. A box labeled 'Neogen ID AL3794' is positioned at the 'Excellent' level, indicating the sample's quality.</p>																																						
Constructs Detected	<table><tr><td>BlastR</td><td>bpa</td><td>Cas9</td><td>chlor</td><td>Cre</td><td>DTA</td><td>g_FFP</td><td>hCMV_a</td><td>hCMV_b</td><td>hTK_pr</td><td>iCre</td><td>IRE5</td><td>Luc</td><td>r_FFP</td><td>rtTA</td><td>SV40</td><td>tTA</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>					BlastR	bpa	Cas9	chlor	Cre	DTA	g_FFP	hCMV_a	hCMV_b	hTK_pr	iCre	IRE5	Luc	r_FFP	rtTA	SV40	tTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Primary Background (Autosomes, X Chromosome)	<table><tr><th>Strain</th><th>Total</th><th>Consistent</th><th>Inconsistent</th><th>Heterozygous</th><th>Excluded</th></tr><tr><td>C57BL/6J</td><td>8913</td><td>8798 (100.0%)</td><td>0 (0.0%)</td><td>1 (0.0%)</td><td>114</td></tr></table>					Strain	Total	Consistent	Inconsistent	Heterozygous	Excluded	C57BL/6J	8913	8798 (100.0%)	0 (0.0%)	1 (0.0%)	114																						
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Secondary Background (Autosomes, X Chromosome)	Not Applicable																																						
Background Ideogram	<p>The ideogram shows chromosome coverage for 19 autosomes and the X chromosome. The y-axis represents coverage in Mb, with markers at 100 Mb and 200 Mb. The legend indicates three types of regions: Primary (black), Inconsistent (light gray), and Heterozygous (dark gray). The Primary regions are the most prominent across all chromosomes.</p>																																						
Backgrounds Detected (Diagnostic Alleles)	<table><tr><th colspan="5">Diagnostic Alleles Observed</th></tr><tr><th>Substrain</th><th>Homozygous</th><th>Heterozygous</th><th>Potential</th><th>% Observed</th></tr><tr><td>C57BL/6J</td><td>145</td><td>2</td><td>156</td><td>94.2%</td></tr><tr><th>Strain Group</th><th>Homozygous</th><th>Heterozygous</th><th>Potential</th><th>% Observed</th></tr><tr><td>C57BL/6 (B6N-Tyr/BrdCrCrl, C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JOlaHsd)</td><td>6</td><td>0</td><td>21</td><td>28.6%</td></tr></table>					Diagnostic Alleles Observed					Substrain	Homozygous	Heterozygous	Potential	% Observed	C57BL/6J	145	2	156	94.2%	Strain Group	Homozygous	Heterozygous	Potential	% Observed	C57BL/6 (B6N-Tyr/BrdCrCrl, C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JOlaHsd)	6	0	21	28.6%									
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