${\bf MiniMUGA~Background~Analysis~v0008}$

Sample ID	Magnuson/B6.CG. Zfp329.1						
Neogen ID	AAAA-6025						
Summary	The genotype of this sample is of excellent quality. It is male and close to inbred, and likely a mix of multiple C57BL/6 substrains and (129P1/ReJ and/or 129P2/OlaHsd and/or 129P3/J and/or 129S1/SvImJ and/or 129S2/SvHsd and/or 129S2/SvPasOrlRj and/or 129S4/SvJaeJ and/or 129S6/SvEvTac and/or 129T2/SvEmsJ and/or 129X1/SvJ). 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 (3 N calls) All reported results are dependent on genotyping quality.						
Chromosomal Sex	XY						
Inbreeding Estimate	Close to Inbred (80 H calls at autosomal, X, and PAR chromosome markers)						
Inbreeding and Genotyping Quality (Plot)	Poor Arign Questionable ON Good Excellent		Geogen ID AAAA Close to Inb Inbreed	-6025	446 234 91 tbred		
Constructs Detected	BlastR bpA Cas9 chlor Cre DTA	A g_FP hC	MV_a hCMV_1	b hTK_pr iCre II	RES Luc r_FP rtT	'A SV40 t'	
Primary Background (Autosomes, X Chromosome)	$\frac{\text{Strain}}{\text{multiple C57BL/6 substrains}}$	Total 9721	Consistent 9268 (99.6%)	Inconsistent 1 (0.0%)	Heterozygous 32 (0.3%)	Exclude 420	
Secondary Background (Autosomes, X Chromosome)	Strain 129P1/ReJ and/or 129P2/OlaHsd and/or 129P3/J and/or 129S1/SvImJ and/or 129S2/SvHsd and/or 129S2/SvPasOrlRj and/or 129S4/SvJaeJ and/or 129S6/SvEvTac and/or		Total 33 Clustered	Explained 29 (0.3%) 29 Clustered	Unexplained 3 (0.0%) 0 Clustered	Excluded 1 (0.0%)	
	$129\mathrm{T2/SvEmsJ} \mathrm{\ and/or} $ $129\mathrm{X1/SvJ}$						

	Diagnostic Alleles Observed				
	Substrain	Homozygous	Heterozygous	Potential	% Observed
Backgrounds Detected (Diagnostic Alleles)	m C57BL/6J	106	37	156	91.7%
	Strain Group	Homozygous	Heterozygous	Potential	% Observed
	C57BL/6	2	4	21	28.6%
	(B6N-Tyr/BrdCrCrl, C57BL/6J, C57BL/6JBomTac,				
	C57BL/6JEiJ, C57BL/6JOlaHsd)				

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	Magnuson/B6.CG. Zfp329.2						
Neogen ID	AAAA-6026						
Summary	The genotype of this sample is of excelled substrains and (129P1/ReJ and/or 129I 129S2/SvPasOrlRj and/or 129S4/SvJas Diagnostic SNPs indicate the presence of No genetic constructs were detected in the	P2/OlaHsd eJ and/or 1 of the backs	and/or 129P3/J 29S6/SvEvTac a ground strain gro	and/or 129S1/SvEn	mJ and/or 129S2/Svl msJ and/or 129X1/Sv	$_{ m VJ}$ Hsd and/or	
Genotyping Quality	Excellent (8 N calls) All reported results are dependent on genotyping quality.						
Chromosomal Sex	XY						
Inbreeding Estimate	Close to Inbred (77 H calls at autosoma	l, X, and P.	AR chromosome	markers)			
Inbreeding and Genotyping Quality (Plot)	Poor Sign Questionable O'SI O'SI O'SI O'SI O'SI O'SI O'SI O'SI	60 N Inbred	eogen ID AAAA Close to Inb	6026			
Constructs Detected	BlastR bpA Cas9 chlor Cre DTA	g_FP hC	MV_a hCMV_l	o hTK_pr iCre I	RES Luc r_FP rtT	CA SV40 t	
Primary Background (Autosomes, X Chromosome)	$\frac{\text{Strain}}{\text{multiple C57BL/6 substrains}}$	Total 9721	Consistent 9265 (99.7%)	Inconsistent 1 (0.0%)	Heterozygous 30 (0.3%)	Excluded	
	Strain	ı	Total	Explained	Unexplained	Excluded	
Secondary Background (Autosomes, X Chromosome)	129P1/ReJ and/or 129P2/OlaHsd and/or 129P3/J and/or 129S1/SvImJ and/or 129S2/SvHsd and/or 129S2/SvPasOrlRj and/or 129S4/SvJaeJ and/or 129S6/SvEvTac and/or		31 Clustered	29 (0.3%) 29 Clustered	1 (0.0%) 0 Clustered	1 (0.0%)	
	$129\mathrm{T2/SvEmsJ}\ \mathrm{and/or}$ $129\mathrm{X1/SvJ}$						

	Diagnostic Alleles Observed				
	Substrain	Homozygous	Heterozygous	Potential	% Observed
Backgrounds Detected (Diagnostic Alleles)	m C57BL/6J	105	38	156	91.7%
	Strain Group	Homozygous	Heterozygous	Potential	% Observed
	C57BL/6 (B6N-Tyr/BrdCrCrl, C57BL/6J, C57BL/6JBomTac,	2	4	21	28.6%
	C57BL/6JEiJ, C57BL/6JOlaHsd)				