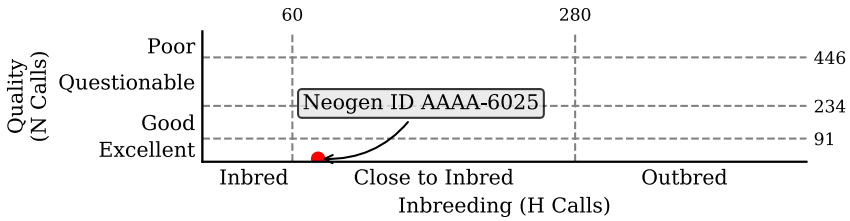
MiniMUGA Background Analysis v0008

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)	

Constructs Detected

BlastR	bpA	Cas9	chlor	Cre	DTA	g_FP	hCMV_a	hCMV_b	hTK_pr	iCre	IRES	Luc	r_FP	rtTA	SV40	tTA
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

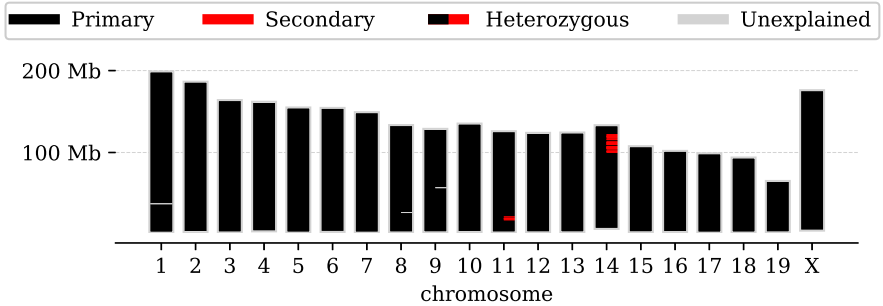
Primary Background (Autosomes, X Chromosome)

Strain	Total	Consistent	Inconsistent	Heterozygous	Excluded
multiple C57BL/6 substrains	9721	9268 (99.6%)	1 (0.0%)	32 (0.3%)	420

Secondary Background (Autosomes, X Chromosome)

Strain	Total	Explained	Unexplained	Excluded
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	33 29 Clustered	29 (0.3%) 29 Clustered	3 (0.0%) 0 Clustered	1 (0.0%)

Background Ideogram

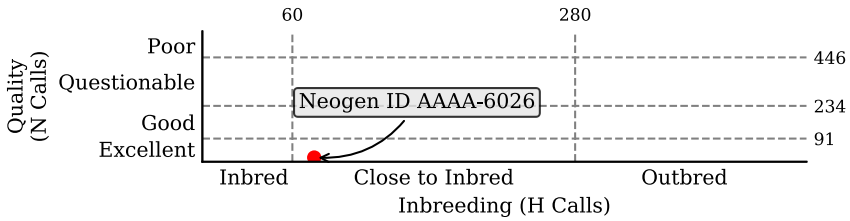


Backgrounds Detected (Diagnostic Alleles)

Substrain	Diagnostic Alleles Observed: Homozygous	Heterozygous	Potential	% Observed
C57BL/6J	106	37	156	91.7%

Strain Group	Homozygous	Heterozygous	Potential	% Observed
C57BL/6 (B6N-Tyr/BrdCrCrl, C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JOlaHsd)	2	4	21	28.6%

MiniMUGA Background Analysis v0008

Sample ID	Magnuson/B6.CG. Zfp329.2
Neogen ID	AAAA-6026
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 (8 N calls) All reported results are dependent on genotyping quality.
Chromosomal Sex	XY
Inbreeding Estimate	Close to Inbred (77 H calls at autosomal, X, and PAR chromosome markers)
Inbreeding and Genotyping Quality (Plot)	

Constructs Detected

BlastR	bpA	Cas9	chlor	Cre	DTA	g_FP	hCMV_a	hCMV_b	hTK_pr	iCre	IRES	Luc	r_FP	rtTA	SV40	tTA
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

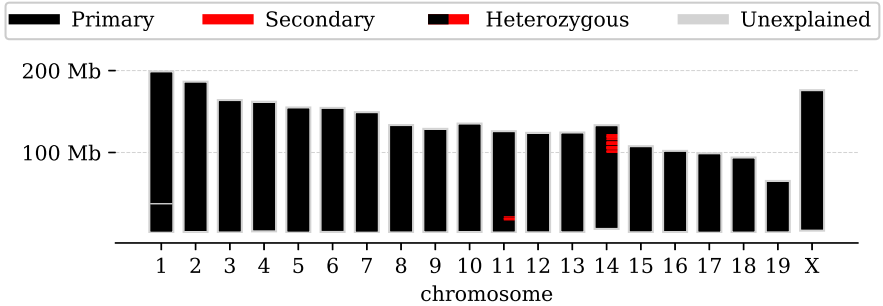
Primary Background (Autosomes, X Chromosome)

Strain	Total	Consistent	Inconsistent	Heterozygous	Excluded
multiple C57BL/6 substrains	9721	9265 (99.7%)	1 (0.0%)	30 (0.3%)	425

Secondary Background (Autosomes, X Chromosome)

Strain	Total	Explained	Unexplained	Excluded
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	31 29 Clustered	29 (0.3%) 29 Clustered	1 (0.0%) 0 Clustered	1 (0.0%)

Background Ideogram



Backgrounds Detected (Diagnostic Alleles)

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