

Supplemental Figure 1. Homozygous lethality of Mcm gene trap alleles

Cross: $Mcm2^{GT/+}$ X $Mcm2^{GT/+}$

Genotypes	$Mcm2^{+/+}$	$Mcm2^{GT/+}$	$Mcm2^{GT/GT}$
Expected Ratio	1/4	1/2	1/4
Expected #	16.75	33.5	16.75
Observed	18	49	0

Total Animals 67
 ChiSquare 6.09853E-06
 Viability by Birth 0.00% (0 out of 16.75)

Cross: $Mcm3^{GT/+}$ X $Mcm3^{GT/+}$

Genotypes	$Mcm3^{+/+}$	$Mcm3^{GT/+}$	$Mcm3^{GT/GT}$
Expected Ratio	1/4	1/2	1/4
Expected #	9.75	19.5	9.75
Observed	14	25	0

Total Animals 39
 ChiSquare 0.001392126
 Viability by Birth 0.00% (0 out of 9.75)

Cross: $Mcm6^{GT/+}$ X $Mcm6^{GT/+}$

Genotypes	$Mcm6^{+/+}$	$Mcm6^{GT/+}$	$Mcm6^{GT/GT}$
Expected Ratio	1/4	1/2	1/4
Expected #	8.25	16.5	8.25
Observed	10	23	0

Total Animals 33
 ChiSquare 0.003731634
 Viability by Birth 0.00% (0 out of 8.25)

Cross: $Mcm7^{GT/+}$ X $Mcm7^{GT/+}$

Genotypes	$Mcm7^{+/+}$	$Mcm7^{GT/+}$	$Mcm7^{GT/GT}$
Expected Ratio	1/4	1/2	1/4
Expected #	9.25	18.5	9.25
Observed	14	23	0

Total Animals 37
 ChiSquare 0.001675084
 Viability by Birth 0.00% (0 out of 9.25)