

Supporting Information Table 2. Targeting and Flp-in efficiency

Genotype	Strain	Clone	Construct [#]	Positive clones of total	Recombination efficiency
wt	129/Ola	1B10	<i>Col1A1-<i>frt</i></i>	13 of 36	36,1%
<i>Kras</i> ^{LSL-G12D}	C57BL/6J	2.7	<i>Col1A1-<i>frt</i></i>	36 of 96	37,5%
<i>Rb1</i> ^{F/F} ; <i>Trp53</i> ^{F/F}	FVB/n;129/Ola	1.5	<i>Col1A1-<i>frt</i></i>	11 of 32	34,4%
<i>Nf2</i> ^{F/F} ; <i>Trp53</i> ^{F/F} ; <i>Cdkn2a</i> ^{q/q}	FVB/n;129/Ola	1.1	<i>Col1A1-<i>frt</i></i>	54 of 156	34,6%
<i>Rb1</i> ^{F/F} ; <i>Trp53</i> ^{F/F} ; <i>Col1A1-<i>frt</i></i>	FVB/n;129/Ola	1B1	<i>frt-invCag-Luc</i>	12 of 12	100%
<i>Rb1</i> ^{F/F} ; <i>Trp53</i> ^{F/F} ; <i>Col1A1-<i>frt</i></i>	FVB/n;129/Ola	1B1_r4	<i>Frt-invCag-MycL1-Luc</i>	6 of 6	100%
<i>Nf2</i> ^{F/F} ; <i>Trp53</i> ^{F/F} ; <i>Cdkn2a</i> ^{q/q} ; <i>Col1A1-<i>frt</i></i>	FVB/n;129/Ola	1F6	<i>frt-invCag-Luc</i>	12 of 12	100%
<i>Nf2</i> ^{F/F} ; <i>Trp53</i> ^{F/F} ; <i>Cdkn2a</i> ^{q/q} ; <i>Col1A1-<i>frt</i></i>	FVB/n;129/Ola	1F6	<i>frt-invEF1-Luc</i>	4 of 4	100%

[#] Homology arms in targeting constructs were syngeneic to target loci in all GEMM-ESC clones.