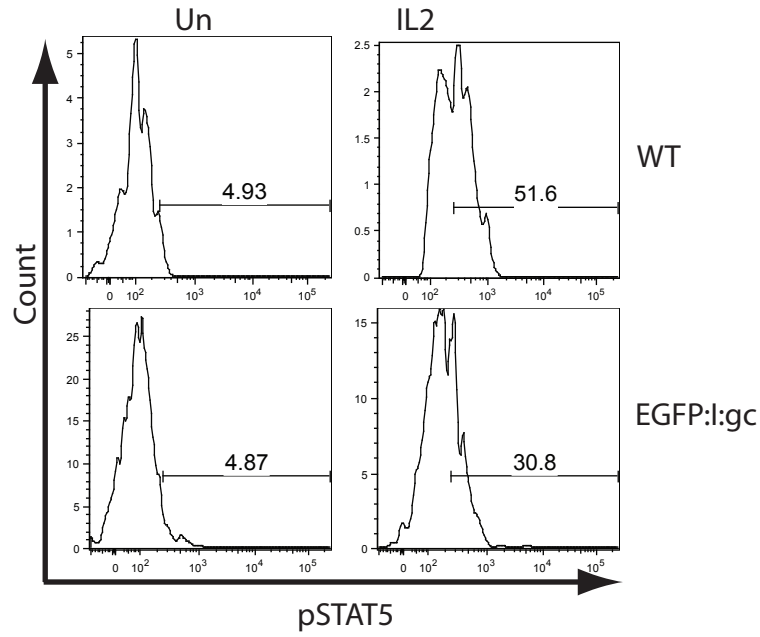
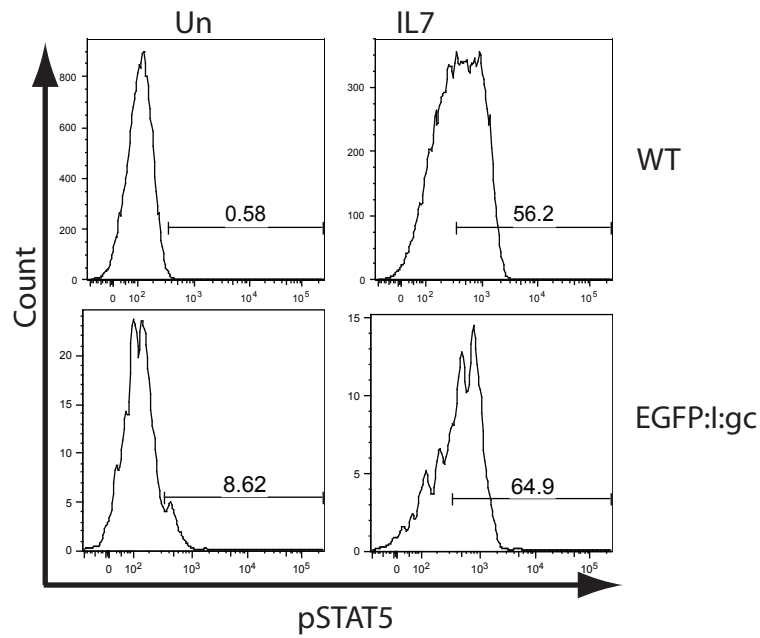


Supplementary Figure 1.



Lack of environmental effect on EGFP:l:gc transduced IL2Rgc^{-/-}/Rag2^{-/-} cells. EGFP:l:gc transduced donor IL2Rgc^{-/-}/Rag2^{-/-} bone marrow cells were injected into sub-lethally irradiated WT mice. WT (EGFP⁻) and EGFP:l:gc (EGFP⁺) splenocytes were left unstimulated or stimulated with IL2 (10,000IU/ml) for 20min. pSTAT5 levels were detected by FACS analysis gated on NK1.1⁺CD3⁻ cells (n=2).

Supplementary Figure 2.



EGFP:l:gc expression in WT cells does not affect their activation. EGFP:l:gc reconstituted donor WT bone marrow cells were injected into irradiated IL2Rgc^{-/-}/Rag2^{-/-} recipient mice. WT (EGFP⁻) and EGFP:l:gc WT (EGFP⁺) splenocytes were left unstimulated or stimulated with IL7 (100ng/ml) for 20min. pSTAT5 levels were detected by FACS analysis gated on NK1.1-CD3⁺ T cells (n=4).

Supplementary Table I

NK cell development in chimeric mice.

Construct	Donor	Recipient	Splenic NK Cell No (x10 ⁶)	BM NK Cell No (x10 ⁶)
EGFP:I:γ _c	IL2Rγ _c ^{-/-} Rag ^{-/-}	IL2Rγ _c ^{-/-} Rag ^{-/-}	0.9 +/- 0.3	0.5+/-0.09
EGFP:I:γ _c	IL2Rγ _c ^{-/-}	IL2Rγ _c ^{-/-} Rag ^{-/-}	0.3 +/- 0.06	0.2+/-0.05
EGFP:I:γ _c	IL15 ^{-/-}	IL2Rγ _c ^{-/-} Rag ^{-/-}	1.0 +/- 0.04	0.4+/-0.08
EGFP:I:γ _c	IL15 ^{-/-}	IL15 ^{-/-}	0.4 +/- 0.00	0.1 +/- 0.03
Untransduced	IL2Rγ _c ^{-/-} Rag ^{-/-}	IL2Rγ _c ^{-/-} Rag ^{-/-}	0.04 +/- 0.02	0.04 +/- 0.02

Absolute splenocyte NK cell numbers were quantified +/- standard error from EGFP:I: γ_c transduced and untransduced chimeric mice.