

List of next generation immunodeficient mice

NOG-IL15 (NOG-hIL-15 Tg)	
Strain name	NOD.Cg-Prkdc<scid> Il2rg<tm1Sug> Tg(CMV-IL15)/Jic
Strain description	Transgenic NOG mice that systemically express the human IL-15 gene. When mature NK cells derived from human peripheral blood are transferred, NK cells are maintained for a long period of time.
Strain development	The signal peptide of the human IL-2 gene was fused to the human IL-15 cDNA. The fragment consisted of the CMV promoter, the IL-15 cDNA and polyA was purified after PvuII digestion and used for microinjection.
Research application	It can be used as a human cancer immune model using human NK cells as an effector.
References	Katano I. et al. (2017) Long-term maintenance of peripheral blood derived human NK cells in a novel human IL-15- transgenic NOG mouse. Sci Rep. Dec 8;7(1):17230.
URL	https://pubmed.ncbi.nlm.nih.gov/29222435/
Remarks	-