

List of next generation immunodeficient mice

NOG-IL6 (NOG-hIL-6 Tg)	
Strain name	NOD.Cg-Prkdc<scid> Il2rg<tm1Sug> Tg(CMV-IL6)/Jic
Strain description	Transgenic NOG mice that systemically express the human IL-6 gene. When human hematopoietic stem cells are transferred, human monocytes and macrophages are significantly differentiated.
Strain development	To generate hIL-6-expressing Tg NOG mice, a DNA fragment containing hIL-6 cDNA, under the control of the cytomegalovirus (CMV) promoter, was microinjected into female NOD mouse eggs fertilized by male NOG mice. A founder mouse was backcrossed with NOG mice to obtain NOG-hIL6 Tg mice
Research application	Since human M-MDSC differentiates after cancer-bearing, it is used as a model for reconstructing the tumor microenvironment.
References	Hanazawa A. et. al. (2018) Generation of Human Immunosuppressive Myeloid Cell Populations in Human Interleukin-6 Transgenic NOG Mice. Front Immunol. Feb 2;9:152.
URL	https://pubmed.ncbi.nlm.nih.gov/29456539/
Remarks	-