

NOG-CD155 (NOG-PVR21 Tg)	
Strain name	NOD.Cg-Prkdc<scid> Il2rg<tm1Sug> Tg(PVR)21/Jic
Strain description	Analysis of Treg function by introduction of TIGIT (T-cell immunoreceptor with Ig and ITIM domains) and CD155, a ligand that competitively acts on TIGIT. Treatment of hCD155-NOG mice with the F(ab') ₂ fragments of a neutralizing anti-human DNAM-1 mAb (anti-hDNAM-1) before hPBMC transfer prolonged survival and ameliorated liver injury compared with these indicators in control mice.
Strain development	Created in collaboration with Dr. Akira Shibuya and Dr. Kazuko Shibuya of Tsukuba University, IQI.Cg-Tg(PVR)21/Jic lines were crossed back to NOD (N4) and NOG crossed from N5 and 100% replacement was confirmed in the N6 generation.
Research application	Immunological Tolerance Research
References	Sato K, et al. (2021) DNAM-1 regulates Foxp3 expression in regulatory T cells by interfering with TIGIT under inflammatory conditions. Proc Natl Acad Sci U S A. 2021 May 25;118(21)
URL	https://www.pnas.org/content/118/21/e2021309118/tab-figures-data
Remarks	