SMOC™ Mouse Models for Research of Immunology (Cytokines-based)

SHANGHAI MODEL ORGANISMS
Editing Genes, Decoding the Mystery of Life

Cytokine/Cytokine Receptor Humanized Mouse Models

Cytokines play key roles in host immune responses to infection, inflammation, trauma, sepsis, cancer, and reproduction. Cytokine-humanized mouse models can be used for preclinical evaluation of immunotherapies. SMOC is providing a repository of cytokine-humanized mouse models for research of immunology.

Strain Name: hIL6/hIL6R
Catalog Num: NM-HU-190025
Strain State: Repository Live
Application: Cd8a-expressing Cells Tracking

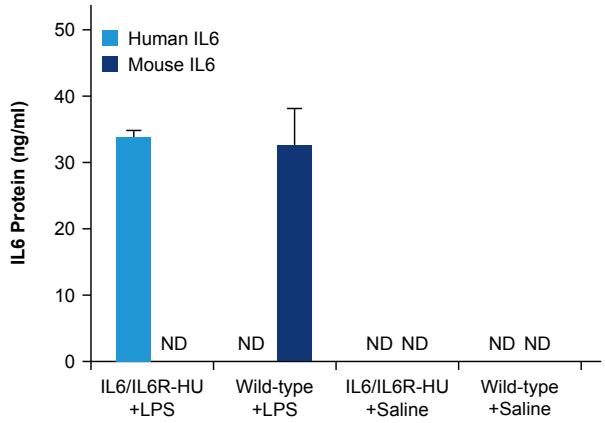

Figure 1. Expression of IL6 in the serum of IL6&IL6R-humanized homozygous mice (IL6/IL6R-HU) and wild-type mice was determined using ELISA. IL6/IL6R-HU mice and wild-type mice were treated with LPS or saline (3mg/kg, i.p.) and post-treatment serum were prepared for following ELISA.

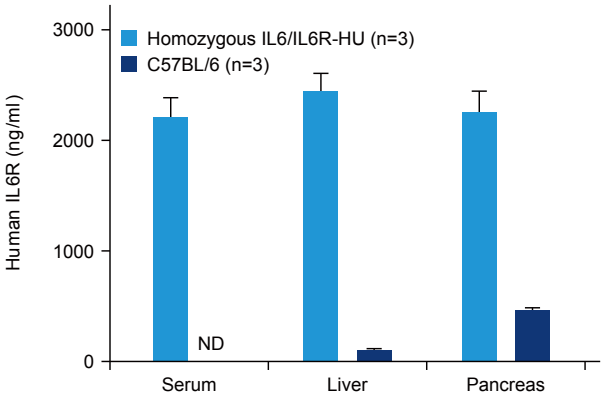

Figure 2. Expression of IL6R in IL6&IL6R-humanized homozygous mice (IL6/IL6R-HU) and C57BL/6 mice was determined using ELISA.

More cytokine/cytokine receptor-humanized mouse models presented as follows

Catalog Num	Strain Names	Catalog Num	Strain Names
NM-HU-190043	hCSF1	NM-HU-190048	hIL2
NM-HU-00094	hCSF1R	NM-NSG-009	hIL2-(M-NSG)
NM-HU-190074	hCSF1R	NM-HU-190064	hIL2RA
NM-HU-190046	hCSF2	NM-HU-2000055	hIL2RB
NM-NSG-008	hCSF2(M-NSG)	NM-HU-190065	hIL3&hCSF2
NM-HU-190006	hCSF3	NM-HU-200008	hIL31
NM-NSG-013	hHGF(M-NSG)	NM-HU-2000069	hIL33
NM-HU-190062	hHGF(NOD-scid)	NM-HU-190009	hIL3
NM-HU-2000063	hIL10	NM-HU-190045	hIL3
NM-HU-2000056	hIL12A	NM-NSG-007	hIL3(M-NSG)
NM-HU-2000057	hIL12B	NM-HU-190008	hIL4RA
NM-HU-190069	hIL13	NM-HU-190001	hIl5
NM-HU-2000027	hIL13RA2	NM-HU-190055	hIL5RA
NM-HU-2000038	hIL15	NM-HU-190025	hIL6&hIL6R
NM-HU-00042	hIL17A	NM-HU-18017	hIL6
NM-HU-190007	hIL17F	NM-HU-00044	hIL6R
NM-HU-190049	hIL17RA	NM-HU-190031	hIL7
NM-HU-190047	hIL1B	NM-HU-18029	hIL9

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Cytokine/Cytokine Receptor Knockout Mouse Models

To elucidate the roles of cytokines in immune responses, in some cases, knockout of cytokines or cytokine receptors is highly required. SMOC has established a repository of widely-used cytokine/cytokine receptor knockout mouse models to fulfil diversified requirements.

Strain Name: IL10-KO

Strain State: Repository Live

Catalog Num: NM-KO-190426

Application: Specific Knockout of IL10

Part of cytokine/cytokine receptor knockout mouse models presented as follows

Catalog No.	Strain Names	Catalog No.	Strain Names
NM-KO-190063	Csf1-KO	NM-KO-190293	Il11-KO
NM-KO-190786	Csf1r-KO	NM-KO-190453	Il11ra1-KO
NM-KO-190532	Csf2-KO	NM-KO-190454	Il12a-KO
NM-KO-200140	Csf2ra-KO	NM-KO-190455	Il12b-KO
NM-KO-190787	Csf2rb-KO	NM-KO-190294	Il12rb1-KO
NM-KO-190533	Csf3-KO	NM-KO-191208	Il12rb1-KO
NM-KO-190788	Csf3r-KO	NM-KO-190456	Il12rb2-KO
NM-KO-190426	Il10-KO	NM-KO-00124	Il13-KO
NM-KO-190451	Il10ra-KO	NM-KO-190457	Il13ra1-KO
NM-KO-190452	Il10rb-KO	NM-KO-190458	Il13ra2-KO

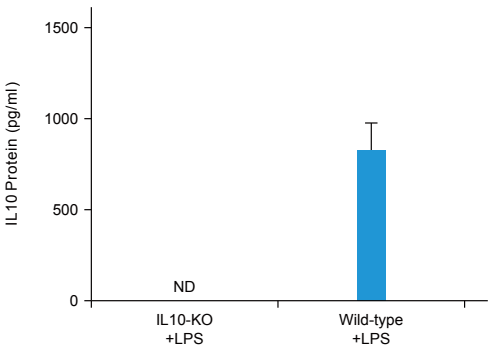

Figure 3. Expression of IL10 in the serum of IL10-/- mice and wild type mice was detected using ELISA. IL10-/- mice were treated with LPS (3mg/kg,i.p.) and post-treatment serum samples were prepared for following ELISA.

Cytokine Reporter Mouse Models

By attaching reporter gene to cytokines locus, cytokine reporter strains, expressing reporter proteins, are intended for easy identification of cellular sources, visual analysis, protein subcellular localization, and genetic lineage tracing. Such strains are widely-used tools for research of cytokines.

Strain Name: Il1b-Luc-EGFP

Strain State: Embryo Cryopreservation

Catalog Num: NM-KI-00010

Application: Cytokine Reporter Strain

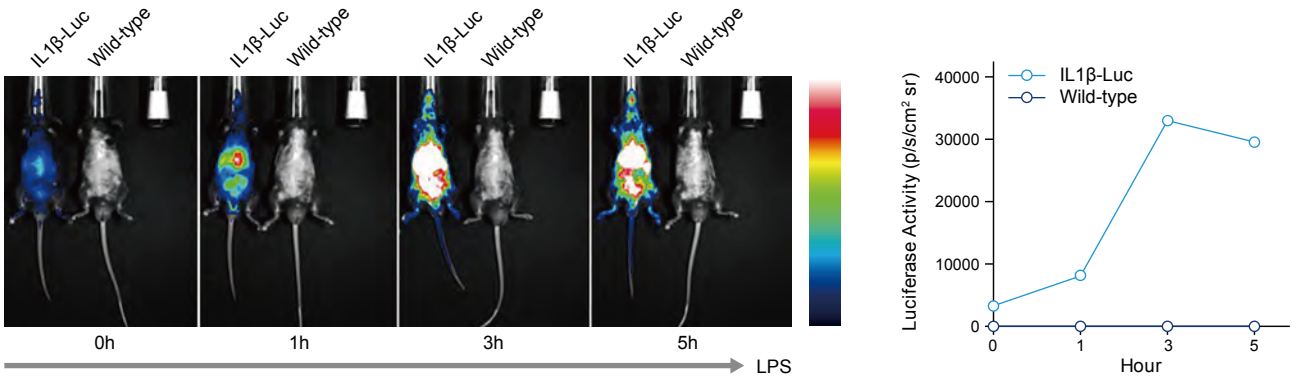

Figure 4. Fluorescence imaging of Il1b-Luc-EGFP mice. IL1β in the mice was activated through LPS treatment.

Part of cytokine reporter mouse models presented as follows

Catalog No.	Strain Names	Catalog No.	Strain Names	Catalog No.	Strain Names
NM-KI-00036	Il11-Luc-EGFP	NM-KI-00009	Il1a-Luc-EGFP	NM-KI-00021	Il4-Luc-EGFP
NM-KI-00024	Il12a-Luc-EGFP	NM-KI-00010	Il1b-Luc-EGFP	NM-KI-00022	Il5-Luc-EGFP
NM-KI-00025	Il12b-Luc-EGFP	NM-KI-18057	Il2-VenIl19-Luc-EGFPus-Luc	NM-KI-00011	Il6-Luc-EGFP
NM-KI-00027	Il15-Luc-EGFP	NM-KI-200072	Il20-Luc-EGFP	NM-KI-00092	Il7-Luc-EGFP
NM-KI-00028	Il16-Luc-EGFP	NM-KI-00034	Il20-Luc-EGFP	NM-KI-00023	Il9-Luc-EGFP
NM-KI-00029	Il17b-Luc-EGFP	NM-KI-00057	Il23a-Luc-EGFP	NM-KI-190123	Tnf-HiBiT
NM-KI-00030	Il17c-Luc-EGFP	NM-KI-00020	Il3-Luc-EGFP	NM-KI-200003	Tnf-Luc
NM-KI-00031	Il17f-Luc-EGFP	NM-KI-00035	Il34-Luc-EGFP	NM-KI-190122	Tnf-NanoLuc
NM-KI-00032	Il18-Luc-EGFP	NM-KI-200028	Il4-tdTomato	NM-KI-00012	Tnf-Luc-EGFP
NM-KI-00033	Il19-Luc-EGFP				