

# hIL17A/hIL17F

<b>Nomenclature</b>	C57BL/6Smoc- <i>Il17a</i> <sup>tm1(hIL17A)</sup> / <i>Il17f</i> <sup>tm2(hIL17F)Smoc</sup>
<b>Cat. NO.</b>	NM-HU-200281
<b>Strain State</b>	Embryo cryopreservation

## Gene Summary

Gene Symbol IL17A	<b>Synonyms</b>	Il17; Ctla8; IL-17; Ctla-8; IL-17A
	<b>NCBI ID</b>	<a href="#">16171</a>
	<b>MGI ID</b>	<a href="#">107364</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000025929</a>
	<b>Human Ortholog</b>	IL17A
Gene Symbol IL17F	<b>Synonyms</b>	C87042; IL-17F
	<b>NCBI ID</b>	<a href="#">257630</a>
	<b>MGI ID</b>	<a href="#">2676631</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000041872</a>
	<b>Human Ortholog</b>	IL17F

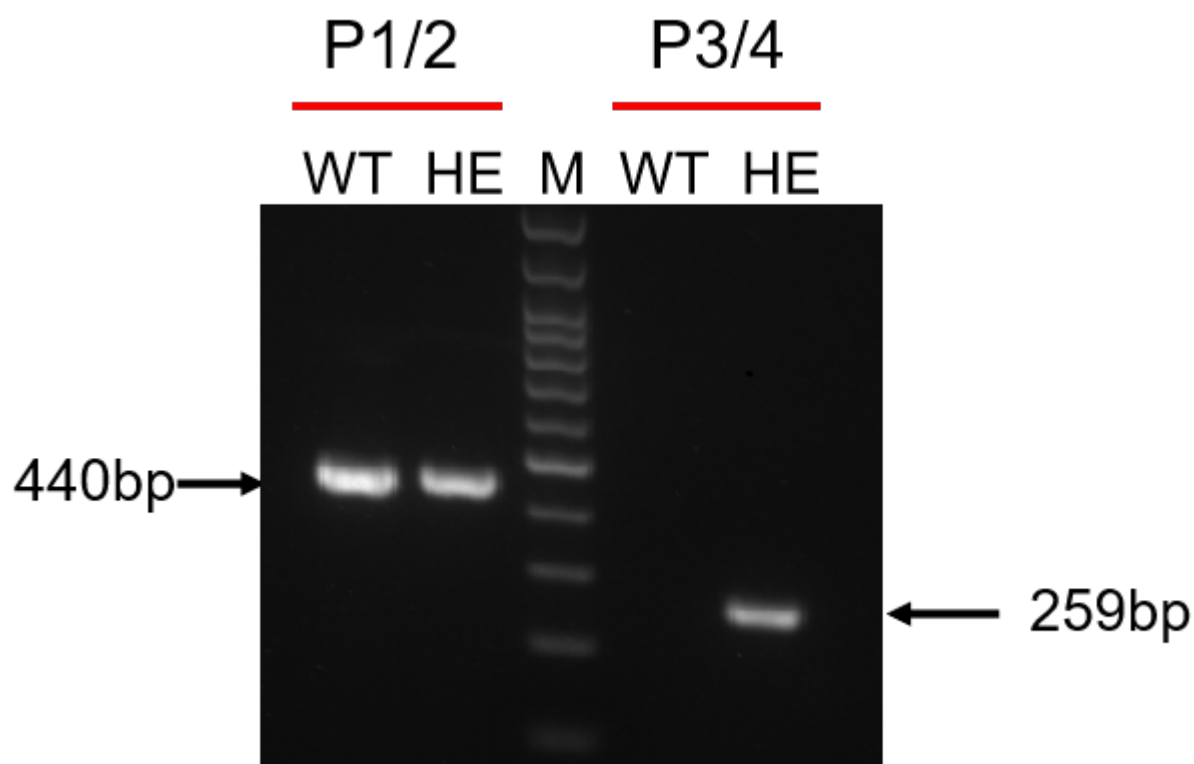
## Model Description

The endogenous mouse *Il17a* & *Il17f* genes were replaced by human *IL17A* & *IL17F* gene.

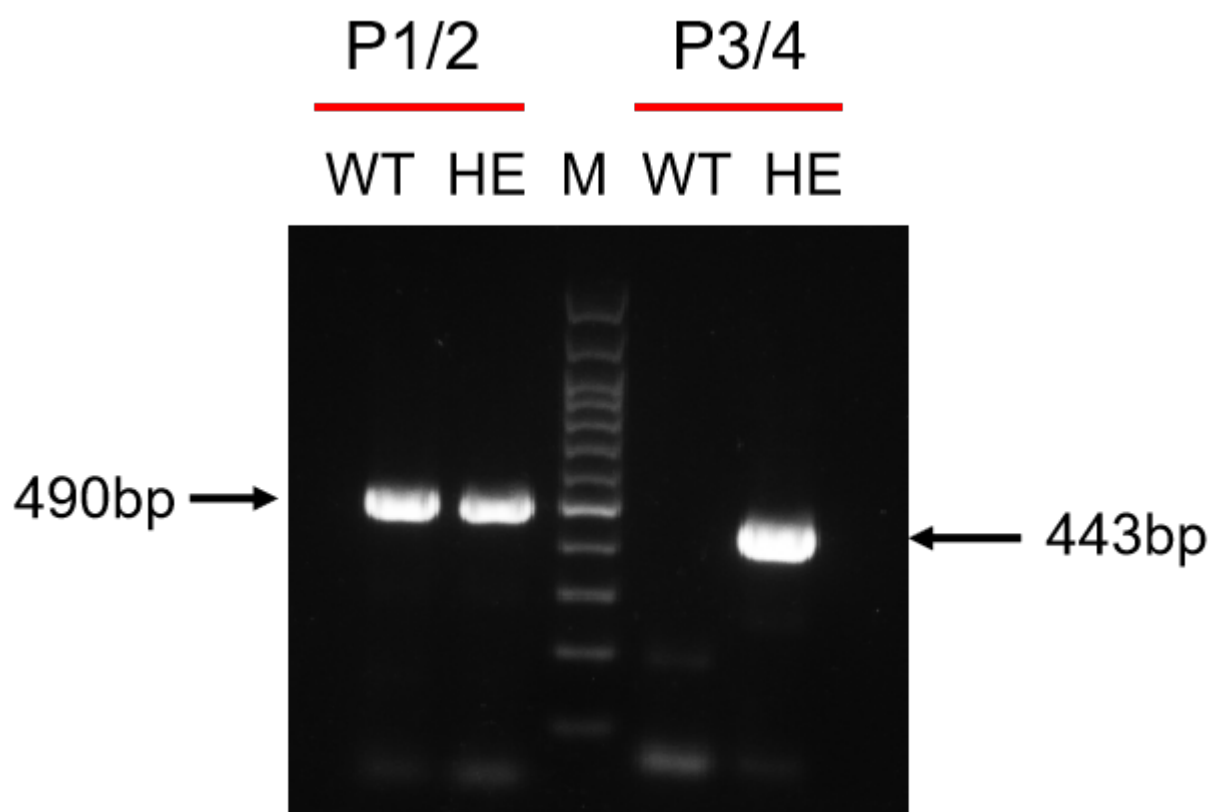
**Research Application:** Immune-related; drug screening

\*Literature published using this strain should indicate: hIL17A/hIL17F mice (Cat. NO. NM-HU-200281) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

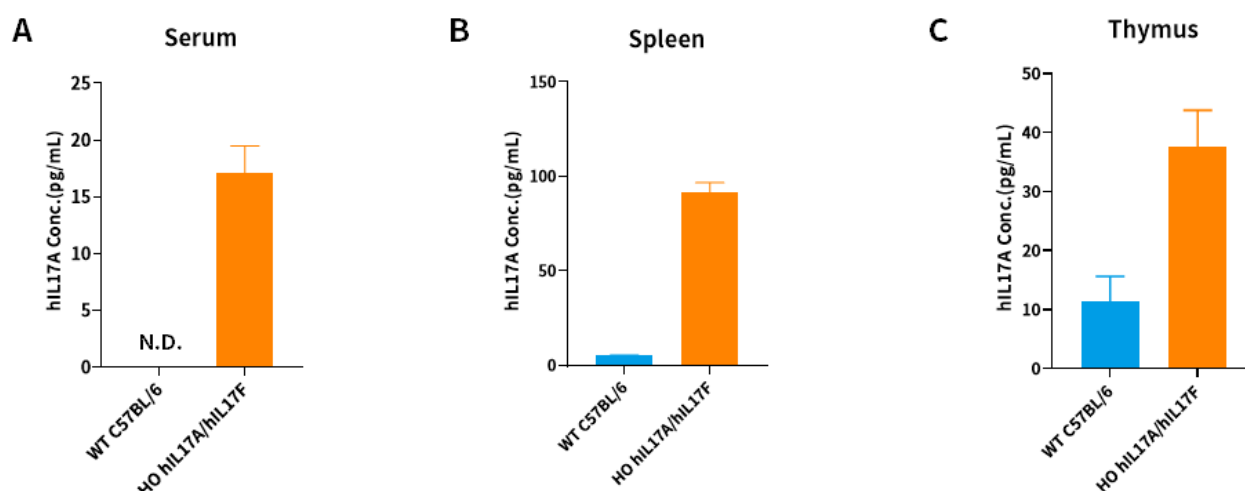


**Fig1. Analysis of IL17F gene expression in the kidney by RT-PCR.** Mouse IL17f mRNA was detectable by P1/2(440bp), human IL17F mRNA was detectable by P3/4(259bp), M:100bp Plus DNA ladder from Transgen (BM311). The heterozygous KI mice express both human IL17F and mouse IL17f in the kidney.



**Fig2. Analysis of IL17A gene expression in the spleen by RT-PCR in WT and IL17A/IL17F**

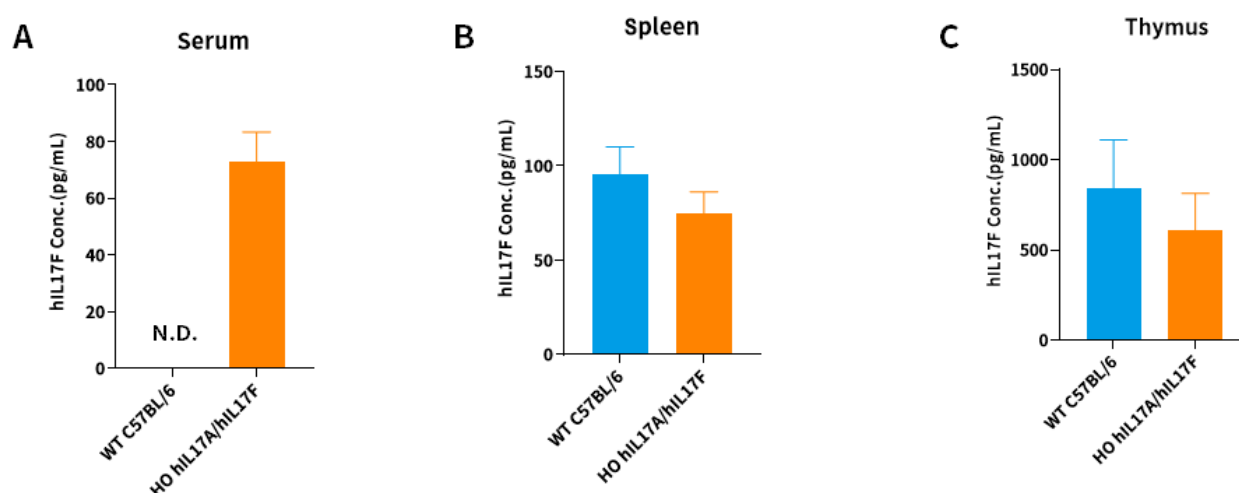
**humanized mice** . Mouse IL17a mRNA was detectable by P1/2(490bp), human IL17A mRNA was detectable by P3/4(443bp), M:100bp Plus DNA ladder from Transgen (BM311). The heterozygous KI mouse expresses both human IL17A and mouse IL17a in the spleen.



**Fig. 3 Detection of hIL17A expression in serum, spleen and thymus homogenate by ELISA (n=3).**

Abbr. HO, homozygous; WT, wild type.

Note. hIL17A/hIL17F and C57BL/6 mice were i.p. injected with LPS.



**Fig. 4 Detection of hIL17F expression in serum, spleen and thymus homogenate by ELISA (n=3).**

Abbr. HO, homozygous; WT, wild type.

Note. hIL17A/hIL17F and C57BL/6 mice were i.p. injected with LPS.

