

Table 2. Pathology exhibited by Ctl44 knockout versus knockdown mice**Part I: Ctl44 knockout and control mice on NOD background****3-wk-old group**

ID	genotype	Age	Sex	lung	heart	exo. pancreas	skel muscle	liver	kid	stomach	colon	lachrymal gland	ovary	uterus	salivary gland	thyroid gland	
#3-1	Ctl44+/+	3wk	m	0	0	0	0	0	0	0	0		0	0	0	0	
#3-2	Ctl44+/+	3wk	f	0	0	0	0	0	0	0	0		0	0	0	nd	
#3-6	Ctl44+/+	3wk	f	0	0	0	0	0	0	0	0		0	0	0	0	
#3-7	Ctl44+/+	3wk	m	0	0	0	0	0	0	0	0		0	0	0	0	
#3-8	Ctl44o/o	3wk	m	0.5	3	3	0	1	0.5	1	0		0	na	na	0	nd
#3-9	Ctl44o/o	3wk	f	2	3	2	1	1	0.5	0	0		0	1	3	0	0
#3-11	Ctl44o/o	3wk	m	1	3	3	3	1	0.5	0	0		0	na	na	1	nd
#3-13	Ctl44o/o	3wk	m	2	3	3	1	1	0.5	2	0		2	na	na	0	nd

Part II: CT4KD7 knockdown and control mice on NOD background**3-wk-old group**

ID	genotype	Age	Sex	lung	heart	exo. pancreas	skel muscle	liver	kid	stomach	colon	lachrymal gland	ovary	uterus	salivary gland	thyroid gland	
#120	Tg-	3wk	F	0	0	0	0	0	0	0	0		0	0	0	0	nd
#122	Tg-	3wk	F	0	0	0	0	0	0	0	0		0	0	0	0	nd
#133	Tg-	3wk	F	nd	nd	0	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd
#127	Tg-	3wk	F	0	0	0	0	0	0	0	0		0	0	0	0	0
#93	Tg-	3.5wk	F	0	0	nd	0	0	0	0	0		0	0	0	0	0
#94	Tg-	3.5wk	F	0	0	nd	0	0	0	0	0		0	0	0	0	0
#119	KD7-20	3wk	F	0	0	0.5	0	0	0	0	0		0	0	0	0	nd
#121	KD7-20	3wk	M	0	0	nd	0	0	0	0	0		0	na	na	0	nd
#124	KD7-20	3wk	F	nd	nd	1	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd
#128	KD7-20	3wk	F	0	0	0	0	0	0	0	0		0	0	0	1	0
#130	KD7-20	3wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0
#131	KD7-20	3wk	F	0	0	0	0	0	0	0	0		0	0	0	0	0
#91	KD7-20	3.5wk	F	0	0	nd	0	0	0	0	0.5		0	0	0	1	0
#92	KD7-20	3.5wk	F	0	0	nd	0	0	0	0	0		0	0	0	1	0

5- to 7-wk-old group

ID	genotype	Age	Sex	lung	heart	exo. pancreas	skel muscle	liver	kid	stomach	colon	lachrymal gland	ovary	uterus	salivary gland	thyroid gland	Notes	
#67	Tg-	7wk	F	0	0	nd	0	0	0	0	0		0	0	0	0	0	
#13	Tg-	7wk	F	0	0	0	0	0	0	0	0		0	0	0	1	0	
#69	Tg-	7wk	F	0	0	0	0	0	0	0	0		0	0	0	1	0	
#66	Tg-	7wk	F	nd	nd	0	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	
#75	Tg-	7wk	F	0	0	nd	0	0	0	0	0		0	0	0	0	0	
#79	Tg-	7wk	F	0	0	0	0	0	0	0	0		0	0	0	0	0	
#61	Tg-	7wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0	
#122	PL4	5wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0	
#123	PL4	5wk	M	0	0	0	0	0	0	0	0		0	na	na	1	0	
#35	PL4	7wk	F	0	0	0	0	0	0	0	0		0	0	0	0.5	0	
#42	PL4	7wk	F	0	0	0	0	0	0	0	0		0	0	0	0	nd	
#38	PL4	7wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0	
#40	PL4	7wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0	
#135	KD7-26	5wk	M	0	0	0	0	0	0	0	0		0	na	na	0	0	diabetic
#132	KD7-26	5wk	M	0	0	0	0	0	0	0.5	0.5		0	na	na	0	0	diabetic
#21	KD7-20	6wk	M	2	0	0	0	0	1	0	0		0	na	na	0.5	nd	diabetic
#17	KD7-20	7wk	F	0	0	0	0.5	0.5	1	0	0		0	0	0	1	0	diabetic
#14	KD7-20	7wk	F	2	0	0	0	0	0	0	0		3	0	0	2	0	
#80	KD7-20	7wk	F	1	0	nd	1	1	2	1	0.5		1	1	2	2	nd	diabetic
#76	KD7-20	7wk	F	0.5	0	0.5	0	0	1	1	0		0	0	0	2	0	
#74	KD7-20	7wk	F	0.5	0	0	0	0	0	1	0		0	0	0	3	0	
#78	KD7-20	7wk	F	2	1	0	0	0	1	0	0		0	0	0	2	nd	
#70	KD7-26	7wk	F	0	0	nd	0	1	1	0	0		1	2	2	1	2	diabetic
#30	KD7-26	7wk	F	0	0	nd	0	0.5	0.5	0	0.5		0	2	1	2	nd	
#68	KD7-26	7wk	F	0.5	0	0	0	0	1	0	0		0	0	0	3	0	
#62	KD7-26	7wk	M	0	0	0	0	0	0.5	0	0		0	na	na	0	nd	

12- to 14-wk-old group

ID	genotype	Age	Sex	lung	heart	exo. pancreas	skel muscle	liver	kid	stomach	colon	lachrymal gland	ovary	uterus	salivary gland	thyroid gland	
#24	Tg-	12wk	F	0	0	0	0	0	0.5	0	0	0	0	0	0	2	0
#3	Tg-	12wk	F	0	0	0	0	0	0	0	0	0	0	0	0	2	0
#119	Tg-	12wk	F	0	0	0	0	0	0	0	0	0	0	0	0	nd	nd
#113	Tg-	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
#116	Tg-	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
#155	PL4	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
#157	PL4	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
#23	KD7-20	12wk	F	0.5	0	3	0	2	0.5	0.5	0	0	2	3	3	3	0
#4	KD7-20	12wk	F	1	0	1	0	0	0	0	0	1	0	0	3	1	
#6	KD7-20	12wk	F	0	0	3	0	1	0	0	0	0	2	2	0	0	
#117	KD7-20	14wk	F	3	0	0	0	0	3	1	0	0	3	2	3	3	
#110	KD7-20	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
#115	KD7-20	12wk	F	nd	nd	0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

Part III: CT4KD7 and control mice on (B6xNOD) F₁ background

12-wk-old group

ID	genotype	Age	Sex	lung	heart	exo. pancreas	skel muscle	liver	kid	stomach	colon	lachrymal gland	ovary	uterus	salivary gland	thyroid gland
#B1	Tg-	12wk	F	0	0	0	0	0	0	0	0	0	0	0	0	0
#B8	Tg-	12wk	F	0	0	0	0	0	0	0	0	0	0	0	0	nd
#B10	Tg-	12wk	M	0	0	0	0	0	0	0	0	0	na	na	0	nd
#B15	Tg-	12wk	M	0	0	0	0	0	0	0	0	0	na	na	0	0
#B2	KD7-20	12wk	F	0	0	0	0	0	0	1	0	0	0	0	2	0
#B7	KD7-20	12wk	F	0.5	0	0	0	0.5	0	2	0	0	0	0	0.5	0
#B11	KD7-20	12wk	M	0	0	0	0	0	0	1	0	0	na	na	1	nd
#B13	KD7-20	12wk	M	0	0	0	0	0	0	2	0	0	na	na	0.5	0

Score: trace, 0.5; mild, 1; moderate, 2; severe, 3. nd, not determined; na, not applicable.