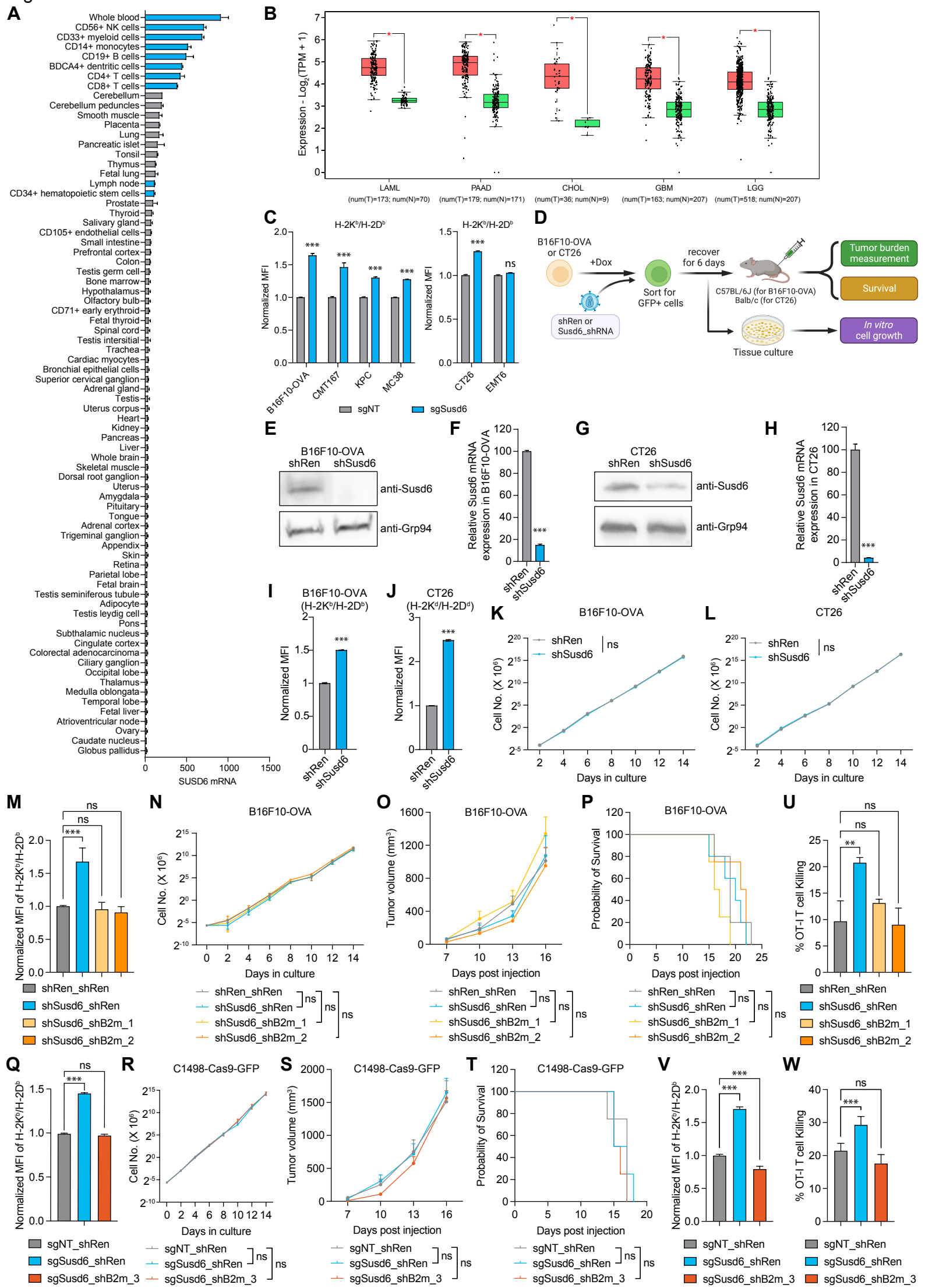
Figure S4


A
Whole blood
CD56+ NK cells
CD33+ myeloid cells
CD14+ monocytes
CD19+ B cells
BDCA4+ dentritic cells
CD4+ T cells
CD8+ T cells
Cerebellum
Cerebellum peduncles
Smooth muscle
Placenta
Lung
Pancreatic islet
Tonsil
Thymus
Fetal lung
Lymph node
CD34+ hematopoietic stem cells
Prostate
Thyroid
Salivary gland
CD105+ endothelial cells
Small intestine
Prefrontal cortex
Colon
Testis germ cell
Bone marrow
Hypothalamus
Olfactory bulb
CD71+ early erythroid
Fetal thyroid
Spinal cord
Testis intersitial
Trachea
Cardiac myocytes
Bronchial epithelial cells
Superior cervical ganglion
Adrenal gland
Testis
Uterus corpus
Heart
Kidney
Pancreas
Liver
Whole brain
Skeletal muscle
Dorsal root ganglion
Uterus
Amygdala
Pituitary
Tongue
Adrenal cortex
Trigeminal ganglion
Appendix
Skin
Retina
Parietal lobe
Fetal brain
Testis seminiferous tubule
Adipocyte
Testis leydig cell
Pons
Subthalamic nucleus
Cingulate cortex
Colorectal adenocarcinoma
Ciliary ganglion
Occipital lobe
Thalamus
Medulla oblongata
Temporal lobe
Fetal liver
Atrioventricular node
Ovary
Caudate nucleus
Globus pallidus
0
500
1000
1500
SUSD6 mRNA
B
Expression - Log2(TPM + 1)
LAML
(num(T)=173; num(N)=70)
PAAD
(num(T)=179; num(N)=171)
CHOL
(num(T)=36; num(N)=9)
GBM
(num(T)=163; num(N)=207)
LGG
(num(T)=518; num(N)=207)
C
H-2Kb/H-2Db
Normalized MFI
B16F10-OVA
CMT167
KPC
MC38
CT26
EMT6
ns
sgNT
sgSusd6
D
B16F10-OVA
or CT26
+Dox
shRen or
Susd6_shRNA
Sort for
GFP+ cells
recover
for 6 days
C57BL/6J (for B16F10-OVA)
Balb/c (for CT26)
Tumor burden
measurement
Survival
Tissue culture
In vitro
cell growth
E
B16F10-OVA
shRen
shSusd6
anti-Susd6
anti-Grp94
F
Relative Susd6 mRNA
expression in B16F10-OVA
G
CT26
H
Relative Susd6 mRNA
expression in CT26
I
B16F10-OVA
(H-2Kb/H-2Db)
J
CT26
(H-2Kd/H-2Dd)
K
B16F10-OVA
shRen
shSusd6
Cell No. (X 10^6)
Days in culture
L
CT26
M
Normalized MFI of H-2Kb/H-2Db
shRen_shRen
shSusd6_shRen
shSusd6_shB2m_1
shSusd6_shB2m_2
N
B16F10-OVA
Cell No. (X 10^6)
Days in culture
O
B16F10-OVA
Tumor volume (mm3)
Days post injection
P
B16F10-OVA
Probability of Survival
Days post injection
U
% OT-I T cell Killing
Q
Normalized MFI of H-2Kb/H-2Db
sgNT_shRen
sgSusd6_shRen
sgSusd6_shB2m_3
R
C1498-Cas9-GFP
Cell No. (X 10^6)
Days in culture
S
C1498-Cas9-GFP
Tumor volume (mm3)
Days post injection
T
C1498-Cas9-GFP
Probability of Survival
Days post injection
V
Normalized MFI of H-2Kb/H-2Db
W
% OT-I T cell Killing