Trp53-Flox

品系全名	C57BL/6Smoc-*Trp53*$^{tm2(flox)Smoc}$
目录号	NM-CKO-18005
品系状态	活体

基因信息

基因名 **Trp53**	**基因曾用名**	bbl; bfy; bhy; p44; p53; Tp53
	NCBI ID	22059
	MGI ID	98834
	Ensembl ID	ENSMUSG00000059552
	人类同源基因	TRP53

品系描述

通过ES细胞打靶途径，flox Trp53基因exon5-7。可与组织特异性Cre工具鼠交配，在表达Cre酶的细胞中，条件性敲除Trp53基因。

应用领域：肿瘤研究

*使用本品系发表的文献需注明: Trp53-Flox mice (Cat. NO. NM-CKO-18005) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

骨肉瘤 **osteosarcoma**	**近似模型的表型**	MGI:5781001 注：该品系与Ptch1-Flox(NM-CKO-18015)和BGLAP-cre工具鼠交配才可能获得预期表型
	参考文献	Chan LH, Wang W, Yeung W, Deng Y, Yuan P, Mak KK, Hedgehog signaling induces osteosarcoma development through Yap1 and H19 overexpression. Oncogene. 2014 Oct 2;33(40):4857-66

骨肉瘤 osteosarcoma	**近似模型的表型**	MGI:5796166 注：该品系与Prkar1a-Flox(NM-CKO-2101183))，Rb1-Flox(NM-CKO-18012)和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
骨肉瘤 osteosarcoma	**近似模型的表型**	MGI:5796167 注：该品系与Rb1-Flox(NM-CKO-18012)，Prkar1a-Flox(NM-CKO-2101183)和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
骨肉瘤 osteosarcoma	**近似模型的表型**	MGI:5796169 注：该品系与Prkar1a-Flox(NM-CKO-2101183))和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
卵巢癌 ovarian cancer	**近似模型的表型**	MGI:5704370 注：该品系与Dicer1-Flox(NM-CKO-200158)，Pten-Flox(NM-CKO-18004)和Amhr2-Cre工具鼠交配才可能获得预期表型
	参考文献	Kim J, Coffey DM, Ma L, Matzuk MM, The ovary is an alternative site of origin for high-grade serous ovarian cancer in mice. Endocrinology. 2015 Jun;156(6):1975-81
肺泡横纹肌肉瘤 Alveolar Rhabdomyosarcoma	**近似模型的表型**	MGI:3844657 注：该品系与Pax3-Flox(NM-CKO-2101872)和Myf6-Cre工具鼠交配才可能获得预期表型
	参考文献	Keller C, Arenkiel BR, Coffin CM, El-Bardeesy N, DePinho RA, Capecchi MR, Alveolar rhabdomyosarcomas in conditional Pax3:Fkhr mice: cooperativity of Ink4a/ARF and Trp53 loss of function. Genes Dev. 2004 Dec 1;18(21):2614-26

乳腺癌 **Breast Cancer**	**近似模型的表型**	MGI:3762186 注：该品系与Brca1-Flox(NM-CKO-18007)和KRT14-cre工具鼠交配才可能获得预期表型
	参考文献	Liu X, Holstege H, van der Gulden H, Treur-Mulder M, Zevenhoven J, Velds A, Kerkhoven RM, van Vliet MH, Wessels LF, Peterse JL, Berns A, Jonkers J, Somatic loss of BRCA1 and p53 in mice induces mammary tumors with features of human BRCA1-mutated basal-like breast cancer. Proc Natl Acad Sci U S A. 2007 Jul 17;104(29):12111-6
乳腺癌 **Breast Cancer**	**近似模型的表型**	MGI:3831430 注：该品系与Brca2-Flox(NM-CKO-200014)和KRT14-cre工具鼠交配才可能获得预期表型
	参考文献	Jonkers J, Meuwissen R, van Der Gulden H, Peterse H, van Der Valk M, Berns A, Synergistic tumor suppressor activity of BRCA2 and p53 in a conditional mouse model for breast cancer. Nat Genet. 2001 Dec;29(4):418-25
乳腺癌 **Breast Cancer**	**近似模型的表型**	MGI:5307256 注：该品系与Brca1-Flox(NM-CKO-18007)和KRT14-cre工具鼠交配才可能获得预期表型
	参考文献	Drost R, Bouwman P, Rottenberg S, Boon U, Schut E, Klarenbeek S, Klijn C, van der Heijden I, van der Gulden H, Wientjens E, Pieterse M, Catteau A, Green P, Solomon E, Morris JR, Jonkers J, BRCA1 RING Function Is Essential for Tumor Suppression but Dispensable for Therapy Resistance. Cancer Cell. 2011 Dec 13;20(6):797-809
乳腺癌 **Breast Cancer**	**近似模型的表型**	MGI:5752193 注：该品系与Pten-Flox(NM-CKO-18004)和MMTV-cre工具鼠交配才可能获得预期表型
	参考文献	Liu JC, Voisin V, Wang S, Wang DY, Jones RA, Datti A, Uehling D, Al-awar R, Egan SE, Bader GD, Tsao M, Mak TW, Zacksenhaus E, Combined deletion of Pten and p53 in mammary epithelium accelerates triple-negative breast cancer with dependency on eEF2K. EMBO Mol Med. 2014 Dec;6(12):1542-60

乳腺癌 Breast Cancer	**近似模型的表型**	MGI:5752196 注：该品系与Pten-Flox(NM-CKO-18004)和Wap-cre工具鼠交配才可能获得预期表型
	参考文献	Liu JC, Voisin V, Wang S, Wang DY, Jones RA, Datti A, Uehling D, Al-awar R, Egan SE, Bader GD, Tsao M, Mak TW, Zacksenhaus E, Combined deletion of Pten and p53 in mammary epithelium accelerates triple-negative breast cancer with dependency on eEF2K. EMBO Mol Med. 2014 Dec;6(12):1542-60
乳腺癌 Breast Cancer	**近似模型的表型**	MGI:5759821 注：该品系与Wap-cre工具鼠交配才可能获得预期表型
	参考文献	Wijnhoven SW, Zwart E, Speksnijder EN, Beems RB, Olive KP, Tuveson DA, Jonkers J, Schaap MM, van den Berg J, Jacks T, van Steeg H, de Vries A, Mice expressing a mammary gland-specific R270H mutation in the p53 tumor suppressor gene mimic human breast cancer development. Cancer Res. 2005 Sep 15;65(18):8166-73
中枢神经系统癌 Central Nervous System Cancer	**近似模型的表型**	MGI:5771805 注：该品系与Smarcb1-Flox(NM-CKO-190042)和GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Ng JM, Martinez D, Marsh ED, Zhang Z, Rappaport E, Santi M, Curran T, Generation of a Mouse Model of Atypical Teratoid/Rhabdoid Tumor of the Central Nervous System through Combined Deletion of Snf5 and p53. Cancer Res. 2015 Nov 1;75(21):4629-39
充电综合征 Charge Syndrome	**近似模型的表型**	MGI:5750594 注：该品系与CMV-cre工具鼠交配才可能获得预期表型
	参考文献	Van Nostrand JL, Brady CA, Jung H, Fuentes DR, Kozak MM, Johnson TM, Lin CY, Lin CJ, Swiderski DL, Vogel H, Bernstein JA, Attie-Bitach T, Chang CP, Wysocka J, Martin DM, Attardi LD, Inappropriate p53 activation during development induces features of CHARGE syndrome. Nature. 2014 Oct 9;514(7521):228-32

子宫内膜癌 Endometrial Cancer	**近似模型的表型**	MGI:5604728 注：该品系与Cdh16-cre工具鼠交配才可能获得预期表型
	参考文献	Ikenberg K, Valtcheva N, Brandt S, Zhong Q, Wong CE, Noske A, Rechsteiner M, Rueschoff JH, Caduff R, Dellas A, Obermann E, Fink D, Fuchs T, Krek W, Moch H, Frew IJ, Wild PJ, KPNA2 is overexpressed in human and mouse endometrial cancers and promotes cellular proliferation. J Pathol. 2014 Oct;234(2):239-52
胶质母细胞瘤 Glioblastoma	**近似模型的表型**	MGI:3849178 注：该品系与GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Wang Y, Yang J, Zheng H, Tomasek GJ, Zhang P, McKeever PE, Lee EY, Zhu Y, Expression of mutant p53 proteins implicates a lineage relationship between neural stem cells and malignant astrocytic glioma in a murine model. Cancer Cell. 2009 Jun 2;15(6):514-26
胶质母细胞瘤 Glioblastoma	**近似模型的表型**	MGI:3849179 注：该品系与Nf1-Flox(NM-CKO-200018)和GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Wang Y, Yang J, Zheng H, Tomasek GJ, Zhang P, McKeever PE, Lee EY, Zhu Y, Expression of mutant p53 proteins implicates a lineage relationship between neural stem cells and malignant astrocytic glioma in a murine model. Cancer Cell. 2009 Jun 2;15(6):514-26
遗传性乳腺癌卵巢癌综合征 Hereditary Breast Ovarian Cancer Syndrome	**近似模型的表型**	MGI:2176786 注：该品系与Brca1-Flox(NM-CKO-18007)和MMTV-cre工具鼠交配才可能获得预期表型
	参考文献	Xu X, Wagner KU, Larson D, Weaver Z, Li C, Ried T, Hennighausen L , Wynshaw-Boris A , Deng CX, Conditional mutation of Brca1 in mammary epithelial cells results in blunted ductal morphogenesis and tumour formation [see comments]. Nat Genet. 1999 May;22(1):37-43

遗传性乳腺癌卵巢癌综合征 Hereditary Breast Ovarian Cancer Syndrome	**近似模型的表型**	MGI:5297134 注：该品系与Brca1-Flox(NM-CKO-18007)和MMTV-cre工具鼠交配才可能获得预期表型
	参考文献	Jones LP, Tilli MT, Assefnia S, Torre K, Halama ED, Parrish A, Rosen EM, Furth PA, Activation of estrogen signaling pathways collaborates with loss of Brca1 to promote development of ERalpha-negative and ERalpha-positive mammary preneoplasia and cancer. Oncogene. 2008 Jan 31;27(6):794-802
遗传性乳腺癌卵巢癌综合征 Hereditary Breast Ovarian Cancer Syndrome	**近似模型的表型**	MGI:5297135 注：该品系与Ccm2-Flox(NM-CKO-2101248)和Cdh5-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献	Jones LP, Tilli MT, Assefnia S, Torre K, Halama ED, Parrish A, Rosen EM, Furth PA, Activation of estrogen signaling pathways collaborates with loss of Brca1 to promote development of ERalpha-negative and ERalpha-positive mammary preneoplasia and cancer. Oncogene. 2008 Jan 31;27(6):794-802
浸润性小叶癌 Invasive Lobular Carcinoma	**近似模型的表型**	MGI:6296606 注：该品系与Cdh1-Flox(NM-CKO-18016)和Wap-cre工具鼠交配才可能获得预期表型
	参考文献	Derksen PW, Braumuller TM, van der Burg E, Hornsveld M, Mesman E, Wesseling J, Krimpenfort P, Jonkers J, Mammary-specific inactivation of E-cadherin and p53 impairs functional gland development and leads to pleomorphic invasive lobular carcinoma in mice. Dis Model Mech. 2011 May-Jun;4(3):347-58
恶性星形细胞瘤 Malignant Astrocytoma	**近似模型的表型**	MGI:4840090 注：该品系与Nf1-Flox(NM-CKO-200018)和GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Kwon CH, Zhao D, Chen J, Alcantara S, Li Y, Burns DK, Mason RP, Lee EY, Wu H, Parada LF, Pten haploinsufficiency accelerates formation of high-grade astrocytomas. Cancer Res. 2008 May 1;68(9):3286-94

恶性星形细胞瘤 Malignant Astrocytoma	**近似模型的表型**	MGI:4840094 注：该品系与Pten-Flox(NM-CKO-18004)，Nf1-Flox(NM-CKO-200018)和GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Kwon CH, Zhao D, Chen J, Alcantara S, Li Y, Burns DK, Mason RP, Lee EY, Wu H, Parada LF, Pten haploinsufficiency accelerates formation of high-grade astrocytomas. Cancer Res. 2008 May 1;68(9):3286-94
恶性星形细胞瘤 Malignant Astrocytoma	**近似模型的表型**	MGI:4840095 注：该品系与Nf1-Flox(NM-CKO-200018)和GFAP-cre工具鼠交配才可能获得预期表型
	参考文献	Kwon CH, Zhao D, Chen J, Alcantara S, Li Y, Burns DK, Mason RP, Lee EY, Wu H, Parada LF, Pten haploinsufficiency accelerates formation of high-grade astrocytomas. Cancer Res. 2008 May 1;68(9):3286-94
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3652717 注：该品系与Xrcc4-Flox(NM-CKO-2100799)和Nes-cre工具鼠交配才可能获得预期表型
	参考文献	Yan CT, Kaushal D, Murphy M, Zhang Y, Datta A, Chen C, Monroe B, Mostoslavsky G, Coakley K, Gao Y, Mills KD, Fazeli AP, Tepsuporn S, Hall G, Mulligan R, Fox E, Bronson R, De Girolami U, Lee C, Alt FW, XRCC4 suppresses medulloblastomas with recurrent translocations in p53-deficient mice. Proc Natl Acad Sci U S A. 2006 May 9;103(19):7378-83
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3710322 注：该品系与Cdkn2c-Flox(NM-CKO-205110)和Nes-cre工具鼠交配才可能获得预期表型
	参考文献	Uziel T, Zindy F, Xie S, Lee Y, Forget A, Magdaleno S, Rehg JE, Calabrese C, Solecki D, Eberhart CG, Sherr SE, Plimmer S, Clifford SC, Hatten ME, McKinnon PJ, Gilbertson RJ, Curran T, Sherr CJ, Roussel MF, The tumor suppressors Ink4c and p53 collaborate independently with Patched to suppress medulloblastoma formation. Genes Dev. 2005 Nov 15;19(22):2656-67

髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3804216 注：该品系与Rb1-Flox(NM-CKO-18012)和Gfap-cre工具鼠交配才可能获得预期表型
	参考文献	Marino S, Vooijs M, van Der Gulden H, Jonkers J, Berns A, Induction of medulloblastomas in p53-null mutant mice by somatic inactivation of Rb in the external granular layer cells of the cerebellum. Genes Dev. 2000 Apr 15;14(8):994-1004
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3831340 注：该品系与Brca2-Flox(NM-CKO-200014)和Nes-cre工具鼠交配才可能获得预期表型
	参考文献	Frappart PO, Lee Y, Russell HR, Chalhoub N, Wang YD, Orii KE, Zhao J, Kondo N, Baker SJ, McKinnon PJ, Recurrent genomic alterations characterize medulloblastoma arising from DNA double-strand break repair deficiency. Proc Natl Acad Sci U S A. 2009 Feb 10;106(6):1880-5
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:5825466 注：该品系与Pten-Flox(NM-CKO-18004)和Nes-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献	Zhu G, Rankin SL, Larson JD, Zhu X, Chow LM, Qu C, Zhang J, Ellison DW, Baker SJ, PTEN Signaling in the Postnatal Perivascular Progenitor Niche Drives Medulloblastoma Formation. Cancer Res. 2017 Jan 01;77(1):123-133
骨肉瘤 Osteosarcoma	**近似模型的表型**	MGI:5519094 注：该品系与Rb1-Flox(NM-CKO-18012)和Sp7-tTA,tetO-EGFP/cre工具鼠交配才可能获得预期表型
	参考文献	Walkley CR, Qudsi R, Sankaran VG, Perry JA, Gostissa M, Roth SI, Rodda SJ, Snay E, Dunning P, Fahey FH, Alt FW, McMahon AP, Orkin SH, Conditional mouse osteosarcoma, dependent on p53 loss and potentiated by loss of Rb, mimics the human disease. Genes Dev. 2008 Jun 15;22(12):1662-76

骨肉瘤 Osteosarcoma	**近似模型的表型**	MGI:5781001 注：该品系与Ptch1-Flox(NM-CKO-18015)和BGLAP-cre工具鼠交配才可能获得预期表型
	参考文献	Chan LH, Wang W, Yeung W, Deng Y, Yuan P, Mak KK, Hedgehog signaling induces osteosarcoma development through Yap1 and H19 overexpression. Oncogene. 2014 Oct 2;33(40):4857-66
骨肉瘤 Osteosarcoma	**近似模型的表型**	MGI:5796166 注：该品系与Prkar1a-Flox(NM-CKO-2101183))，Rb1-Flox(NM-CKO-18012)和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
骨肉瘤 Osteosarcoma	**近似模型的表型**	MGI:5796167 注：该品系与Rb1-Flox(NM-CKO-18012)，Prkar1a-Flox(NM-CKO-2101183)和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
骨肉瘤 Osteosarcoma	**近似模型的表型**	MGI:5796169 注：该品系与Prkar1a-Flox(NM-CKO-2101183))和Col1a1-cre工具鼠交配才可能获得预期表型
	参考文献	Chen Y, Di Grappa MA, Molyneux SD, McKee TD, Waterhouse P, Penninger JM, Khokha R, RANKL blockade prevents and treats aggressive osteosarcomas. Sci Transl Med. 2015 Dec 9;7(317):317ra197
卵巢癌 Ovarian Cancer	**近似模型的表型**	MGI:5704370 注：该品系与Dicer1-Flox(NM-CKO-200158)，Pten-Flox(NM-CKO-18004)和Amhr2-Cre工具鼠交配才可能获得预期表型
	参考文献	Kim J, Coffey DM, Ma L, Matzuk MM, The ovary is an alternative site of origin for high-grade serous ovarian cancer in mice. Endocrinology. 2015 Jun;156(6):1975-81

卵巢癌 Ovarian Cancer	**近似模型的表型**	MGI:5704372 注：该品系与Pten-Flox(NM-CKO-18004)和Amhr2-Cre工具鼠交配才可能获得预期表型
	参考文献	Kim J, Coffey DM, Ma L, Matzuk MM, The ovary is an alternative site of origin for high-grade serous ovarian cancer in mice. Endocrinology. 2015 Jun;156(6):1975-81
胰腺癌 Pancreatic Carcinoma	**近似模型的表型**	MGI:4940096 注：该品系与Kras-LSL-G12D(NM-KI-190003), Brca2-Flox(NM-CKO-200014)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Skoulidis F, Cassidy LD, Pisupati V, Jonasson JG, Bjarnason H, Eyfjord JE, Karreth FA, Lim M, Barber LM, Clatworthy SA, Davies SE, Olive KP, Tuveson DA, Venkitaraman AR, Germline Brca2 heterozygosity promotes Kras(G12D) -driven carcinogenesis in a murine model of familial pancreatic cancer. Cancer Cell. 2010 Nov 16;18(5):499-509
胰腺癌 Pancreatic Carcinoma	**近似模型的表型**	MGI:5635880 注：该品系与Kras-LSL-G12D(NM-KI-190003)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Masso-Valles D, Jauset T, Serrano E, Sodir NM, Pedersen K, Affara NI, Whitfield JR, Beaulieu ME, Evan GI, Elias L, Arribas J, Soucek L, Ibrutinib exerts potent antifibrotic and antitumor activities in mouse models of pancreatic adenocarcinoma. Cancer Res. 2015 Apr 15;75(8):1675-81
胰腺癌 Pancreatic Carcinoma	**近似模型的表型**	MGI:5662454 注：该品系与Rb1-Flox(NM-CKO-18012)和Ren-cre工具鼠交配才可能获得预期表型
	参考文献	Glenn ST, Jones CA, Sexton S, LeVea CM, Caraker SM, Hajduczok G, Gross KW, Conditional deletion of p53 and Rb in the renin-expressing compartment of the pancreas leads to a highly penetrant metastatic pancreatic neuroendocrine carcinoma. Oncogene. 2014 Dec 11;33(50):5706-15

胰腺导管腺癌 Pancreatic Ductal Adenocarcinoma	**近似模型的表型**	MGI:4941336 注：该品系与Kras-LSL-G12D(NM-KI-190003)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Hingorani SR, Wang L, Multani AS, Combs C, Deramaudt TB, Hruban RH, Rustgi AK, Chang S, Tuveson DA, Trp53R172H and KrasG12D cooperate to promote chromosomal instability and widely metastatic pancreatic ductal adenocarcinoma in mice. Cancer Cell. 2005 May;7(5):469-83
胰腺导管腺癌 Pancreatic Ductal Adenocarcinoma	**近似模型的表型**	MGI:5308946 注：该品系与Kras-LSL-G12D(NM-KI-190003)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Bardeesy N, Aguirre AJ, Chu GC, Cheng KH, Lopez LV, Hezel AF, Feng B, Brennan C, Weissleder R, Mahmood U, Hanahan D, Redston MS, Chin L, Depinho RA, Both p16(Ink4a) and the p19(Arf)-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. Proc Natl Acad Sci U S A. 2006 Apr 11;103(15):5947-52
胰腺导管腺癌 Pancreatic Ductal Adenocarcinoma	**近似模型的表型**	MGI:5308951 注：该品系与Kras-LSL-G12D(NM-KI-190003), Cdkn2a-Flox(2)(NM-CKO-200151)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Bardeesy N, Aguirre AJ, Chu GC, Cheng KH, Lopez LV, Hezel AF, Feng B, Brennan C, Weissleder R, Mahmood U, Hanahan D, Redston MS, Chin L, Depinho RA, Both p16(Ink4a) and the p19(Arf)-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. Proc Natl Acad Sci U S A. 2006 Apr 11;103(15):5947-52
胰腺导管腺癌 Pancreatic Ductal Adenocarcinoma	**近似模型的表型**	MGI:6505560 注：该品系与Kras-LSL-G12D(NM-KI-190003)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Poulin EJ, Bera AK, Lu J, Lin YJ, Strasser SD, Paulo JA, Huang TQ, Morales C, Yan W, Cook J, Nowak JA, Brubaker DK, Joughin BA, Johnson CW, DeStefanis RA, Ghazi PC, Gondi S, Wales TE, Iacob RE, Bogdanova L, Gierut JJ, Li Y, Engen JR, Perez-Mancera PA, Braun BS, Gygi SP, Lauffenburger DA, Westover KD, Haigis KM, Tissue-Specific Oncogenic Activity of KRAS(A146T). Cancer Discov. 2019 Jun;9(6):738-755

胰腺粘液性囊腺瘤 Pancreatic Mucinous Cystadenoma	**近似模型的表型**	MGI:5898453 注：该品系与Apc-Flox(NM-CKO-200013)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Kuo TL, Weng CC, Kuo KK, Chen CY, Wu DC, Hung WC, Cheng KH, APC haploinsufficiency coupled with p53 loss sufficiently induces mucinous cystic neoplasms and invasive pancreatic carcinoma in mice. Oncogene. 2016 Apr 28;35(17):2223-34
前列腺癌 Prostate Cancer	**近似模型的表型**	MGI:4819193 注：该品系与Brca2-Flox(NM-CKO-200014)和Pbsn-cre工具鼠交配才可能获得预期表型
	参考文献	Francis JC, McCarthy A, Thomsen MK, Ashworth A, Swain A, Brca2 and Trp53 deficiency cooperate in the progression of mouse prostate tumourigenesis. PLoS Genet. 2010;6(6):e1000995
前列腺癌 Prostate Cancer	**近似模型的表型**	MGI:5431978 注：该品系与Tert-Flox(NM-CKO-2114953)，Pten-Flox(NM-CKO-18004)和Pbsn-cre工具鼠交配才可能获得预期表型
	参考文献	Ding Z, Wu CJ, Jaskelioff M, Ivanova E, Kost-Alimova M, Protopopov A, Chu GC, Wang G, Lu X, Labrot ES, Hu J, Wang W, Xiao Y, Zhang H, Zhang J, Zhang J, Gan B, Perry SR, Jiang S, Li L, Horner JW, Wang YA, Chin L, DePinho RA, Telomerase reactivation following telomere dysfunction yields murine prostate tumors with bone metastases. Cell. 2012 Mar 2;148(5):896-907
鳞状细胞癌 Squamous Cell Carcinoma	**近似模型的表型**	MGI:5298084 注：该品系与Kras-LSL-G12D(NM-KI-190003)和KRT14-cre/ERT工具鼠交配才可能获得预期表型
	参考文献	Lapouge G, Youssef KK, Vokaer B, Achouri Y, Michaux C, Sotiropoulou PA, Blanpain C, Identifying the cellular origin of squamous skin tumors. Proc Natl Acad Sci U S A. 2011 May 3;108(18):7431-6

鳞状细胞癌 **Squamous Cell Carcinoma**	**近似模型的表型**	MGI:5618123 注：该品系与Dicer1-Flox(NM-CKO-200158)和KRT5-cre/PGR工具鼠交配才可能获得预期表型
	参考文献	Lyle S, Hoover K, Colpan C, Zhu Z, Matijasevic Z, Jones SN, Dicer cooperates with p53 to suppress DNA damage and skin carcinogenesis in mice. PLoS One. 2014;9(6):e100920
胃癌 **Stomach Cancer**	**近似模型的表型**	MGI:5634400 注：该品系与Cdh1-Flox(NM-CKO-18016)，Smad4-Flox(NM-CKO-18011)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Park JW, Jang SH, Park DM, Lim NJ, Deng C, Kim DY, Green JE, Kim HK, Cooperativity of E-cadherin and Smad4 Loss to Promote Diffuse-Type Gastric Adenocarcinoma and Metastasis. Mol Cancer Res. 2014 Aug;12(8):1088-99
甲状腺癌 **Thyroid Gland Cancer**	**近似模型的表型**	MGI:5784771 注：该品系与Hras-Flox(NM-CKO-2117376)和TPO-cre工具鼠交配才可能获得预期表型
	参考文献	Garcia-Rendueles ME, Ricarte-Filho JC, Untch BR, Landa I, Knauf JA, Voza F, Smith VE, Ganly I, Taylor BS, Persaud Y, Oler G, Fang Y, Jhanwar SC, Viale A, Heguy A, Huberman KH, Giancotti F, Ghossein R, Fagin JA, NF2 Loss Promotes Oncogenic RAS-Induced Thyroid Cancers via YAP-Dependent Transactivation of RAS Proteins and Sensitizes Them to MEK Inhibition. Cancer Discov. 2015 Nov;5(11):1178-93
甲状腺癌 **Thyroid Gland Carcinoma**	**近似模型的表型**	MGI:5897837 注：该品系与Pten-Flox(NM-CKO-18004)和TPO-cre工具鼠交配才可能获得预期表型
	参考文献	Antico Arciuch VG, Russo MA, Dima M, Kang KS, Dasrath F, Liao XH, Refetoff S, Montagna C, Di Cristofano A, Thyrocyte-specific inactivation of p53 and Pten results in anaplastic thyroid carcinomas faithfully recapitulating human tumors. Oncotarget. 2011 Dec;2(12):1109-26

膀胱癌 **Urinary Bladder Cancer**	**近似模型的表型**	MGI:3844324 注：该品系与Pten-Flox(NM-CKO-18004)和Adeno-cre工具鼠交配才可能获得预期表型
	参考文献	Puzio-Kuter AM, Castillo-Martin M, Kinkade CW, Wang X, Shen TH, Matos T, Shen MM, Cordon-Cardo C, Abate-Shen C, Inactivation of p53 and Pten promotes invasive bladder cancer. Genes Dev. 2009 Mar 15;23(6):675-80

验证数据

暂无数据