

# R26-CAG-LSL-hPIK3CA\*H1047R-IRES-Luc-2A-tdTomato

系統名	C57BL/6Smoc- <i>Gt(ROSA)26Sor</i> <sup>em1(CAG-LSL-PIK3CA(H1047R)-IRES-luciferase-2A-tdTomato)Smoc</sup>
SMOC番号	NM-KI-190065
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol <b>Gt(ROSA)26Sor</b>	<b>Synonyms</b>	R26, ROSA26, AV258896, Gtrgeo26, Gtrosa26, Thumpd3as1
	<b>NCBI ID</b>	<a href="#">14910</a>
	<b>MGI ID</b>	<a href="#">104735</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000086429</a>

## 説明

These mice harbor a CAG-LSL-PIK3CA(H1047R)-IRES-luciferase-2A-tdTomato cassette in the Rosa26 locus generated by homologous recombination.

**応用分野:** cancer research

\*Literature published using this strain should indicate: R26-CAG-LSL-hPIK3CA\*H1047R-IRES-Luc-2A-tdTomato mice (Cat. NO. NM-KI-190065) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

<b>Breast Cancer</b>	<b>表現型</b>	<a href="#">MGI:5000479</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with MMTV-cre mice.
	<b>参考文献</b>	Adams JR, Xu K, Liu JC, Agamez NM, Loch AJ, Wong RG, Wang W, Wright KL, Lane TF, Zacksenhaus E, Egan SE, Cooperation between Pik3ca and p53 Mutations in Mouse Mammary Tumor Formation. Cancer Res. 2011 Apr 1;71(7):2706-2717

<b>Cloves Syndrome</b>	<b>表現型</b>	<a href="#">MGI:6197269</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CAG-cre mice.
	<b>参考文献</b>	Venot Q, Blanc T, Rabia SH, Berteloot L, Ladraa S, Duong JP, Blanc E, Johnson SC, Huguin C, Boccara O, Sarnacki S, Boddaert N, Pannier S, Martinez F, Magassa S, Yamaguchi J, Knebelmann B, Merville P, Grenier N, Joly D, Cormier-Daire V, Michot C, Bole-Feysot C, Picard A, Soupre V, Lyonnet S, Sadoine J, Slimani L, Chaussain C, Laroche-Raynaud C, Guibaud L, Broissand C, Amiel J, Legendre C, Terzi F, Canaud G, Targeted therapy in patients with PIK3CA-related overgrowth syndrome. Nature. 2018 Jun;558(7711):540-546
<b>Ovarian Cancer</b>	<b>表現型</b>	<a href="#">MGI:5784677</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Arid1a-flox(NM-CKO-200078) and Ad-Cre mice.
	<b>参考文献</b>	Chandler RL, Damrauer JS, Raab JR, Schisler JC, Wilkerson MD, Didion JP, Starmer J, Serber D, Yee D, Xiong J, Darr DB, Pardo-Manuel de Villena F, Kim WY, Magnuson T, Coexistent ARID1A-PIK3CA mutations promote ovarian clear-cell tumorigenesis through pro-tumorigenic inflammatory cytokine signalling. Nat Commun. 2015;6:6118
<b>Brain Glioma</b>	<b>表現型</b>	<a href="#">MGI:6414961</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Acvr1-Flox(NM-CKO-2100170), H3c2-Flox(NM-CKO-2117586) and Olig2-Cre mice.
	<b>参考文献</b>	Fortin J, Tian R, Zarrabi I, Hill G, Williams E, Sanchez-Duffhues G, Thorikay M, Ramachandran P, Siddaway R, Wong JF, Wu A, Apuzzo LN, Haight J, You-Ten A, Snow BE, Wakeham A, Goldhamer DJ, Schramek D, Bullock AN, Dijke PT, Hawkins C, Mak TW, Mutant ACVR1 Arrests Glial Cell Differentiation to Drive Tumorigenesis in Pediatric Gliomas. Cancer Cell. 2020 Mar 16;37(3):308-323.e12

## 表現型データ

No data