

Kinases

Gene Knockout/ Overexpression*	Background	Operant	2BC	CIE-2BC	DID	References
cAMP-dependent protein kinase type II- β regulatory subunit (<i>Prkar2b</i>)	B6 \times 129/SvJ		\uparrow males/females			Thiele et al., 2000 [21]
	B6	genotype/sex interactions	\uparrow males/females			Ferraro et al., 2006 [122]
	B6		\uparrow males/females			Fee et al., 2004 [134]
Protein kinase C (PKC) ϵ type (<i>Prkce</i>)	B6 \times 129/SvEv		\uparrow males/females			Fee et al., 2004 [134]
	B6 \times 129 SvJae	\downarrow \downarrow ADE				Olive et al., 2000 [14]
	B6 \times 129 SvJae \times FVB/N		\downarrow			Choi et al., 2002 [41]
	B6 \times 129 SvJae		\downarrow (23 h)			Hodge et al., 1999 [82]
	B6 \times 129 SvJae		\downarrow (16 h)			Olive et al., 2005 [85]
	B6 \times 129S4		\downarrow			Wallace et al., 2007 [112]
	B6 \times 129/SvJae		\downarrow			Besheer et al., 2006 [127]
	B6 \times 129S4/SvJae				\downarrow (2 h), knockdown in amygdala	Lesscher et al., 2009 [194]
	C57BL/6J \times 129S4		\downarrow males/females (24 h)			Blasio et al., 2018 [329]
PKC γ type (<i>Prkcg</i>)	B6 \times 129/SvEvTac		\uparrow males/females			Bowers and Wehner, 2001 [84]
PKC ζ type (<i>Prkcz</i>)	B6 \times 129S6/SvEvTac		\uparrow (4, 24 h intermittent) — continuous		— (4 h)	Lee et al., 2014 [299]
Tyrosine-protein kinase Fyn (<i>Fyn</i>)	B6 \times 129SF2/J		\downarrow			Boehm et al., 2003 [56]
	129/SvJ		— (23 h)			Yaka et al., 2003 [116]
	B6 \times CBA		—			Cowen et al., 2003 [140]
			— ADE			
			— post-stress			
<i>Fyn</i> *	B6 \times 129/Sv		\downarrow males/females			Boehm et al., 2004 [76]
	B6		\downarrow			Stork et al., 2002 [139]
cGMP-dependent protein	B6N, 129/SvN		\uparrow			Werner et al., 2004

kinase 2 (<i>Prkg2</i>)				[124]
Serine/threonine-protein kinase, TAO2 (<i>Taok2</i>)	B6		↑ (4 h)	Kapfhamer et al., 2013 [269]
Anaplastic lymphoma kinase (<i>Alk</i>)	B6		↑ (4 h intermittent)	Lasek et al., 2011 [240]
	C57BL/6J	— males/females (15%, 2 h)		Schweitzer et al., 2016 [336]

—, ↓, ↑: no significant difference, decreased ethanol intake and/or preference, or increased ethanol intake and/or preference, respectively, in mutant vs. wildtype/control mice. Male mice were tested unless indicated otherwise. Ethanol intake in the two-bottle choice (2BC) tests was measured in 24-h sessions, unless otherwise indicated. Session times for operant tests were 16 h, and drinking in the dark (DID) session times are indicated in parenthesis. ADE, alcohol deprivation effect. Recommended mouse protein and gene (in italics) names are from Uniprot. B6 refers to C57BL/6J and mice.