Table X. GABA

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| **Gene Knockout/Knockin\*** | **Background** | **Operant** | **2BC** | **DID**  | **References** |
| Gamma-aminobutyric acid type A receptor (GABA-A R) subunit α-1 (*Gabra1*) | not specified | ↓ (30-60 min)**a**males/females |  |  | June et al., 2007 [145] |
|  | B6 × 129SvEv |  | ↓ females |  | Blednov et al., 2003 [55] |
|  *Gabra1*\* | B6 × 129SvJ |  | — |  | Werner et al., 2006 [138] |
| GABA-A receptor α-2 subunit (*Gabra2*) | B6 × 129SvEv |  | — males— females |  | Boehm et al., 2004 [113] |
| GABA-A receptor α-5 subunit (*Gabra5*) | B6 × 129SvEv |  | ↓ males— females |  | Boehm et al., 2004 [113] |
|  | B6 × 129SvEv | — (1 h; females) | — females |  | Stephens et al., 2005 [109] |
| GABA-A receptor β-2 subunit (*Gabrb2*)  | B6 × 129SvEv |  | — females |  | Blednov et al., 2003 [55] |
| GABA-A receptor δ subunit(*Gabrd*) | B6 × 129/Sv/SvJ |  | ↓ males/females |  | Mihalek et al., 2001 [26] |
|  |  | — (15 min) |  |  | Shannon et al., 2004 |
| GABA-A receptor ρ-1 subunit (*Gabrr1*) | B6 × 129S4 |  | ↓ males— females— intermittent; males/females | — (2, 4 h; males/females) | Blednov et al., 2014 [288] |
| GABA transporter I | B6 |  | — |  | Cai et al., 2006 [128] |
| Glutamic acid decarboxylase 2 (*Gad2*) | B6 and 129/SvJ  |  | ↑ 129N2— 129N1 — B6 | — 129N2 (2, 4 h, 1B)— 129N2 (3 h, 2BC)  | Blednov et al., 2010**b** [96] |

–, ↓, ↑: no significant difference, decreased ethanol intake and/or preference, or increased ethanol intake and/or preference, respectively, in knockout (or *Gabra1* knockin) mice *vs*. wildtype mice. Male mice were tested unless indicated otherwise. Ethanol intake in the two-bottle choice (2BC) tests was measured in 24-h sessions. Drinking session times for the other tests are indicated in parenthesis. **a**Following operant testing, the same mice underwent a one-bottle, 2-h limited access test, in which knockout mice also consumed less ethanol than wildtype. **b**There were no differences between 129N2 and wildtype mice using a SHAC model. DID, drinking in the dark; 1B, one bottle. Recommended mouse protein and gene (in italics) names are from Uniprot. B6 refers to C57BL/6J mice.