Table X. Other Genes

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| **Gene Knockout/****Overexpression\*** | **Background** | **Operant** | **2BC** | **CIE** | **DID** | **References** |
| β-arrestin-1 (*Arrb1*) | B6 |  | — |  |  | Bjork et al., 2008 [168] |
| β-arrestin-2 (*Arrb2*) | B6 |  | ↓ 9-15% |  |  | Bjork et al., 2008 [168] |
|  | B6 |  | ↑ |  |  | Li et al., 2013 [283] |
| Cocaine- and amphetamine-regulated transcript protein (*Cartpt*) | B6 |  | ↓ males/females |  |  | Salinas et al., 2012 [295] |
| Gap junction delta-2 protein, Connexin-36 (*Gjd2*) | B6 |  |  |  | ↓ (2 h, 20%) | Steffensen et al., 2011 [231] |
| G1/S-specific cyclin-D2 (*Ccnd2*) | 129X1/SvJ × B6 × BALB/cAnNCrl |  | — 2%, 4%↑ 8%, 16% |  |  | Jaholkowski et al., 2011 [246] |
| α-gustducin (*Gnat3*) | B6 |  | ↓ |  |  | Blednov et al., 2008 [162] |
| Histamine H3 receptor(*Hrh3*) | B6 |  | ↓ |  | ↓ (2, 4 h) | Nuutinen et al., 2011 [252] |
| LIM domain only protein 3 (*Lmo3*) | B6 |  | — males/females |  | ↑ (2, 4 h; males/females) | Savarese et al., 2014 [314] |
|  | B6 |  |  |  | — (4 h) | Olney et al., 2014 [297] |
| Metallothionein-1/2(*Mt1, Mt2* double knockout) | 129S7/SvEvBrd and129S1/SvImJ |  | ↑ males/females |  |  | Loney et al., 2006 [119] |
| Period circadian protein homolog 1, mPer1 (*Per1*) | *Per1Brdm1* B6-Tyrc-Brd × 129S7 |  | — drink-o-meter↑ stress |  |  | Dong et al., 2011 [241] |
| *Per1Brdm1* | B6-Tyrc-Brd × 129SvEvBrd  | — | —— ADE |  |  | Zghoul et al., 2007 [144] |
| Period circadian protein homolog 2, mPer2 (*Per2*)  | B6 |  | ↑ drink-o-meter |  |  | Brager et al., 2011 [237] |
|   | B6 |  | ↑ |  |  | Brager et al., 2011 [244] |
| Disks large homolog 4, PSD-95(*Dlg4*) | B6 |  | ↓ males/females↑ day 1, ADE |  |  | Camp et al., 2011 [234] |
| Protein fosB (*Fosb*) | 129Sv × BALB/c |  | — males/females |  |  | Korkosz et al., 2004 [67] |
| Protransforming growth factor α (*Tgfa*)\* | CD1 |  | ↑ |  |  | Hilakivi-Clarke and Goldberg, 1995 [75] |
| Ras-related protein Rab-3A (*Rab3a*) | B6 |  | — (23 h) |  |  | Kapfhamer et al., 2008 [181] |
| Ras-specific guanine nucleotide-releasing factor 2 (*Rasgrf2*) | B6 |  | ↓ |  |  | Stacey et al., 2012 [285] |
| Regulator of G-protein signaling 6 (*Rgs6*) | B6 × 129/Sv  |  | ↓ males/females |  |  | Stewart et al., 2015 [317] |
| Taste receptor type 1 member 3 (*Tas1r3*) | B6 |  | ↓ |  |  | Blednov et al., 2008 [162] |
|  | B6 |  | ↓ males/females |  |  | Brasser et al., 2010 [216] |
| Trace amine-associated receptor 1 (*Taar1*) | B6 × 129S1/Sv |  | ↑ females |  |  | Lynch et al., 2013 [282] |
| Protein unc-79 homolog(*Unc79*) | B6 and B6 × DBA/2J |  | ↑ |  |  | Speca et al., 2010 [212] |
| Neurogranin (calmodulin-binding protein) (gene name) | C57BL/6J | ↑ |  |  |  | Reker et al., 2018 [328] |
| FK506-binding protein (glucocorticoid receptor binding protein) (*FKBP5*) | C57BL/6J |  | ↑ consumption, males (9%, 12%, 15%)— preference, males (9%, 12%, 15%)— consumption, females (3-15%)— preference, females (3-15%) |  |  | Qiu et al., 2016 [334] |
| Peroxisome proliferator-activated receptor α (*Ppara*) | B6129S4 |  | — (15%, 24 h)— (10%, 24 h) |  |  | Blednov et al., 2016 [338] |
| Growth arrest and DNA damage-inducible, beta (*Gadd45b*) | C57 |  | — (12%) |  | — (20%, 4 h) | Gavin et al., 2016 [327] |
| Relaxin-3 family peptide receptor 3 (*Rxfp3*) | C57BL/6N |  | ↑ males (12%)— females (12%) | — males/females (1BC, 10%, 4 h) |  | Shirahase et al., 2016 [ |
|  | C57BL/6J | — |  |  |  | Walker et al., 2015 [341] |

–, ↓, ↑: no significant difference, decreased ethanol intake and/or preference, or increased ethanol intake and/or preference, respectively, in mutant *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, unless otherwise indicated. DID, drinking in the dark; ADE, alcohol deprivation effect. Recommended mouse protein and gene (in italics) names are from Uniprot. B6 refers to C57BL/6J and mice.