

Chaya et al., Figure S5

Figure S5 Phenotypic analysis of ICK Nes CKO mice. (A–D) ICK mRNA expression levels in the P4 control and ICK Nes CKO cerebellum (A), in the P4 control and ICK Nes CKO hippocampus (B), in the P4 control and ICK Nes CKO cerebral cortex (C), and in the P4 control and ICK Nes CKO whole brain (D) were analyzed by Q-PCR. Error bars show the SD. (E) ICK protein expression in the P4 control and ICK Nes CKO brain was examined by Western blot analysis. α -tubulin was used as a loading control. (F) Ccrk mRNA expression levels in the P4 control and ICK Nes CKO brain were analyzed by Q-PCR. There was no significant difference between the P4 control and ICK Nes CKO brain. (G) Growth retardation observed in ICK Nes CKO mice (right) compared to control mice (left) at the age of one month. (H, I) Nissl staining of sagittal sections from the P21 control (H) and ICK Nes CKO (I) brain. There was no obvious difference in the size of lateral ventricles between the control and ICK Nes" EMQ "dtckp0""*L "M+"P kuun'uvckpkpi "qh'uci kvcn'egtgdgnct "ugevkqpu'htqo "R6"eqpvtqn'*L+"cpf " KEMP gu'EMQ'*M+'o keg0"F ghgevu'kp''egtgdgmct'hunkcykqp''ctg''qdugtxgf 'kp''KEM'P gu'EMQ'' o keg0"*N.'O +'Vj g'pwo dgtu'qh'Mk89/r qukkxg''egmu'*N+'cpf 'RJ 5/r qukkxg''egmu'*O +'kp'' eqpytqn/cpf "KEMP gu'EMQ'GI N'y gtg"eqwpygf 0"Mk89/r qukkxg"egmi'cpf "RJ 5/r qukkxg" egmu'uki pkhecpvn("f getgcugf 'kp'KEM'P gu'EMQ'o keg0"*P +'I n/3 "gzr tguukqp''y cu'tgf wegf 'kp" yj g'KEM'P gu'EMQ'egtgdgmvo ()"*QóV+'Ko o wpqj kwqej go kecn'cpcn{uku'qh'yj g'R6'KEM'P gu' EMQ'j krr qecor cn'FI 0"Uci kwcn'j krr qecor cn'ugevkqpu'htqo "R6"eqpvtqn'cpf "KEM'P gu'EMQ" o keg'y gtg'ko o wpquvckpgf 'y kj "cpvkdqf kgu'ci ckpuv'Mk89'*i tggp'kp'Q. 'R+'cpf 'RJ 5'*i tggp'kp'' S. 'T+0"Egmir tqrkhgtcvkqp"y cu'f getgcugf 'kp"y g'KEM'P gu'EMQ'j krrqecorcn'FI 0"Vj g" pwo dgtu'qh'Mk89/r qukkxg''egmu'*U+'cpf 'RJ 5/r qukkxg''egmu'*V+'kp''y g'R6''eqpvtqn'cpf 'KEM'' P gu'EMQ'' j kr r qeco r cn'FI 'y gtg'eqwpygf 0"*W+'I nt3"gzr tguukqp'kp'' g'' j kr r qeco r wu'y cu'' o gcuwtgf "d{ 'S/RET0"*X."Y +'Ekrkc"kp"gr gpf {o cnlegnu"ctg"pqto cm{ "hqto gf "kp"yj g"KEM" P gu'EMQ'dtckp0"Uci kvcn'ugevkqpu'htqo ''vj g'R6"eqpvtqn'cpf 'KEM'P gu'EMQ'dtckp''y gtg'' ko o wpquvckpgf "y kj "cp"cpvk/cegy/mvgf" /wdwrkp"cpvkdqf {0"*Zó[#+"Ekrkct { "mecrkt cvkqp"qh" I RET'kp'y g'KEM'P gu'EMQ'egtgdtcn'eqtvgz0'

Sections from cerebral cortex were stained with ciliary GPCR, SSTR3 (red). The cilia were stained with an anti-AC3 antibody (green). SSTR3 (arrowheads) were localized in the cilia properly both in control and *ICK Nes* CKO mice. Nuclei were stained with DAPI (blue). Scale bars, 20 mm (G), 1mm (H, I), 500 μ m (J, K), 200 μ m (O–R) and 10 μ m (V–Y'). Error bars show the SD. **p < 0.03, *p < 0.05, n.s., not significant. LV, lateral ventricle.