Supporting Information

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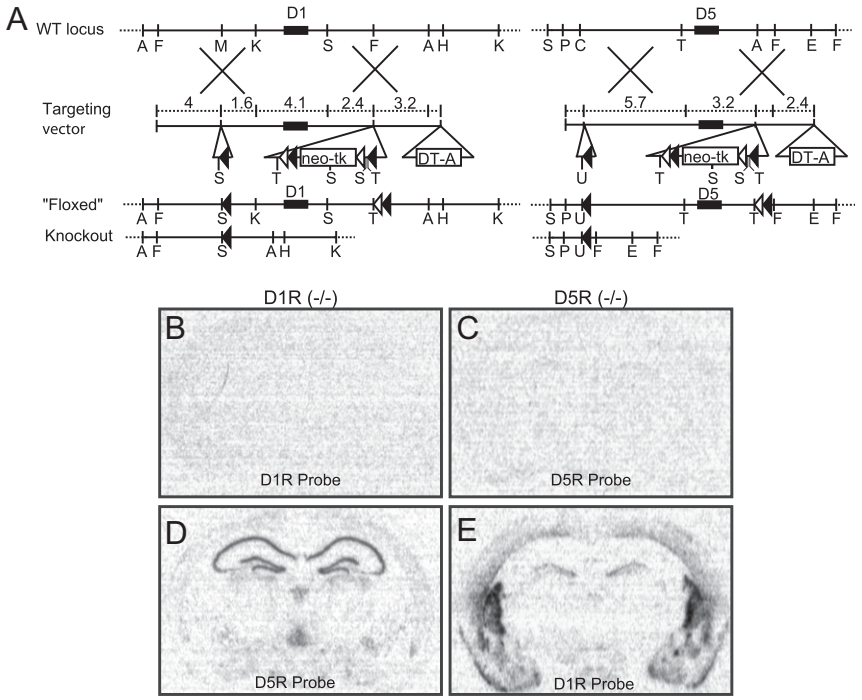

Fig. S1. Generation of knockout mice. (*A, Top*) Wild-type loci (D1, *Left*; D5, *Right*). The coding regions are indicated as filled boxes. (*Middle*) Targeting vectors where a loxP site was inserted 5′ of the coding regions, a LFNT cassette was inserted 3′ of the coding regions, and a diphtheria toxin A (DT-A) marker was inserted at the 3′ end. The floxed D1 and D5 gene (*Bottom*). (*B* and *D*) $D1R^{-/-}$ D1R mRNA probe (*B*) and D5 mRNA probe (*D*). (*C* and *E*) $D5R^{-/-}$ D5 mRNA probe (*C*) and D1 mRNA probe (*E*).

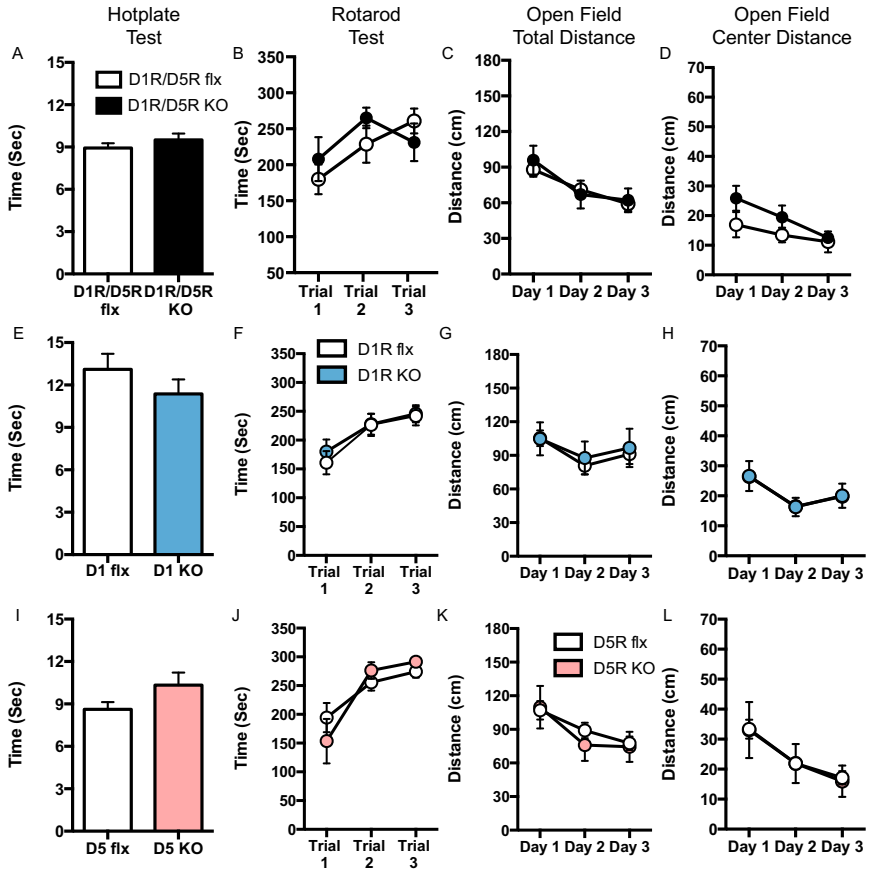

Fig. S2. Pain sensitivity, anxiety, and motor activity is normal in KO mice. (*A*, *E*, and *I*) Hotplate sensitivity test (D1R/D5R flx, $n = 10$; KO, $n = 8$; D1R flx, $n = 17$; KO, $n = 13$; D5R flx, $n = 14$; KO, $n = 7$). (*B*, *F*, and *J*) Rotarod motor test (D1R/D5R flx, $n = 8$; KO, $n = 7$; D1R flx, $n = 18$; KO, $n = 21$; D5R flx, $n = 14$; KO, $n = 7$). (*C*, *G*, and *K*) Open field total distance (D1R/D5R flx, $n = 6$; KO, $n = 9$; D1R flx, $n = 28$; KO, $n = 26$; D5R flx, $n = 16$; KO, $n = 7$). (*D*, *H*, and *L*) Open field center distance (D1R/D5R flx, $n = 6$; KO, $n = 9$; D1R flx, $n = 28$; KO, $n = 26$; D5R flx, $n = 16$; KO, $n = 7$).

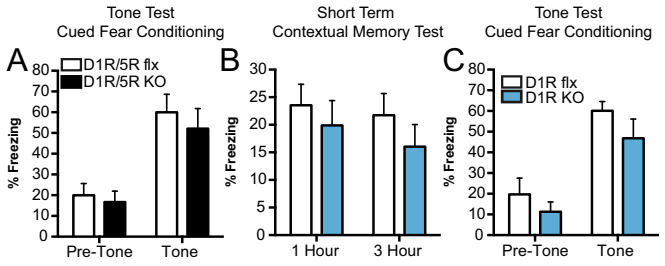

Fig. S3. Short-term and cued-fear memory. (*A*) D1R/D5R KO line cued-fear conditioning tone test. (flx = 8, KO = 8). (*B*) DG D1R KO Line 1 h (flx = 8, KO = 10) and 3 h (flx = 11, KO = 8) short-term memory test. (*C*) DG D1R KO line cued-fear conditioning tone test (flx = 8, KO = 6).