



**Fig. 2.** Distribution of TSC2 mRNA in the sections through the hippocampus by in situ hybridization with digoxigenin-labeled sense or antisense TSC2 riboprobes. **A:** Photomicrograph of the hippocampal section hybridized with sense TSC2 riboprobes. **B:** Photomicrograph of the hippocampal section hybridized with antisense TSC2 riboprobes. **C–E:** High power views of the CA1 (**C**), CA3 (**D**), CA4 (**E**) sector and dentate gyrus (DG) region (**E**) from areas indicated by frames in **B**, illustrating TSC2 mRNA highly expressing neurons with purple colored cytoplasm. **F:** High power view of the CA4 sector and DG region indicated by a frame in **A**, showing the red colored background stain by non-specific binding of the probes. **o**, stratum oriens; **p**, pyramidal layer; **r**, stratum radiatum; **m**, molecular layer; **g**, granule layer; **h**, hilus. Scale bar = 500  $\mu$ m in **A** and **B**; 100  $\mu$ m in **C–F**.