

Supplemental Figure 5. In contrast to Dlx1-/- cells in layers 2-4 (panels A-B), those in layers 5-6 showed altered average tuning curves based on early (panel D) but not late responses (panel E). Consistent with this, our histological analysis showed that in layers 2-4 of the Dlx1 mutant mice (panel C), calretinin+, NPY+, and somatostatin+ cells are reduced, but parvalbumin+ cells are increased, while in layers 5-6 (panel F), calretinin+, NPY+, and somatostatin+ cells appeared unchanged (given that the total number of parvalbumin+ cells are unchanged but there is an increase in layers 2-4, the number of parvalbumin+ cells may be slightly decreased in layers 5-6, as indicated by the arrow, although p > 0.05 for these comparisons). For all comparisons, \*: p < 0.05; \*\*: p < 0.01. PV: parvalbumin+; CR: calretinin+; NPY+; SOM: somatostatin+.