**Supplementary Fig. 8** There were no significant differences in distribution of frame duration (a), within frame multiunit firing rate per tetrode (b), and within frame active cell firing rate (c) between replaying (red) and non-replaying (black) candidate frames in either the visual cortex (CTX) or the hippocampus (HP). The ranksum test $P$ values are: (a) CTX: $P = 0.23$, HP: $P = 0.92$; (b) CTX: $P = 0.30$; HP: $P = 0.21$; (c) CTX: $P = 0.59$, HP: $P = 0.13$. 