



FIGURE S4.—Mouse promoters with CpG islands longer than 1400bps exhibit highly significantly different expression breadths compared to other CGI promoters. The difference between LCGI and other CGI promoters was not as conspicuous as in the case of human. Thus, to pinpoint the cutoff values between LCGI and SCGI promoters, we divided mouse CGI promoters to two groups using a specific cutoff value. Then we performed a *t*-test to determine whether the expression breadths of the two groups differ significantly. We performed this experiment using cutoff values ranging from 800bps to 2000bps, with the interval size 200bps. Figure S4 depicts the results of this analysis. At 1400bps, the two groups are highly significantly different ( $P < 2 \times 10^{-5}$ ). Cutoff values near 1400bps provided similarly strong results (cutoff = 1200bps:  $P < 10^{-4}$ , 1600bps:  $P = 2 \times 10^{-5}$ ). The *P*-value was the lowest when cutoff value of 1400bps was used. From these experiments, we chose 1400bps as the cutoff between LCGI and SCGI promoters.