Supplementary Figure 1:

hDcp1 does not stimulate decapping by hDcp2. In a time-course decapping assay, cap-labeled RNA was incubated with 60 ng GST-hDcp2-His (lanes 2-7; see also Figure 2B), 60 ng full length His-hDcp1 (lanes 14-19; see also Figure 2C), or a mixture of the two proteins (lanes 8-13). Aliquots were taken from the reaction mixtures after 0, 5, 10, 20, 30, and 60 minutes. As a control, RNA was incubated with buffer alone for 60 minutes (lane 1). The positions of the input RNA and the decapping product m7GDP are indicated on the right.
Supplementary Figure 2:

The product of decapping by hDcp2 is m7GDP. Cap-labeled RNA incubated with hDcp2 as described in Materials and Methods was spotted onto four TLC plates (lanes 4, 8, 12, and 16) together with mock-incubated RNA (lanes 3, 7, 11 and 15). As a source of labeled inorganic phosphate (Pi), 32P-γATP was hydrolyzed and spotted onto the TLC plates (lanes 2, 6, 10, and 14). Cap-labeled RNA was digested with nuclease P1 to provide labeled m7GpppG cap (lanes 1, 5, 9, and 13). The TLC plates were developed in 0.3M LiCl/1M formic acid, the standard solution (lanes 1-4), or 0.5M LiCl/1M formic acid (lanes 5-8), 0.8M LiCl/1M formic acid (lanes 9-12), or 0.45M (NH4)2SO4 (lanes 13-16). The positions of unlabeled standards run along on the plates are indicated on the right.