



#### **Additional file 4.**

Catalytic functionality of *J. curcas* hammerhead ribozymes. Schematic representation (top) and autoradiography (bottom) of run-off transcriptions in the presence of [ $\alpha$ - $^{32}$ P]-UTP of the positive and negative polarities of a genomic retrozyme fragment from *Jatropha curcas*. The transcribed RNAs covered approximately, from position 574 to position 573 of the circular RNA depicted in Figure 3a, and were separated by denaturing 5% PAGE. Quantification of the bands indicated that 60% of the transcript was processed by the ribozyme. The position of T7 and T3 RNA promoters, primer binding site (PBS), polypurine tract (PPT) and HHR self-cleavage site (arrowhead) are indicated